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INTERNATIONAL METEOROLOGY

FOR THE MONTH OF JANUARY, 1883.

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 1, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer, corrected for instrumental error and for temperature.		Barometer, reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.42	772.7	59.7	15.4	77	n.	.....	.....	4	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.41	772.5	61.5	16.4	50	wsw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Thève.
La Calle	.....	.....	30.36	771.2	66.6	19.2	61	sw.	.....	.....	1	.....	3	.....	.....	0	0	pretty clear	Fonfréde.
Tunis	.....	.....	30.39	771.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.43	772.9	65.1	18.4	69	s.	.....	.....	2	.....	0	.....	.....	0	0	clear	Pérès.
Tebessa	.....	.....	30.43	772.8	55.0	12.8	70	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dognon.
Geriville	.....	.....	.....	.....	61.9	16.6	42	wnw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Lonchamp.
Laghouat	.....	.....	30.47	773.8	59.4	15.2	33	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.46	773.7	64.0	17.8	84	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.96	761 0	30.05	763.3	58.0	14.4	75	sw.	19	8.5	.....	.....	10	.....	.....	0.06	1.5	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.54	750.3	30.11	764.7	41.4	5.2	87	sw.	.....	.....	2	.....	10	.....	.....	0.010	0.4	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29 30	744.2	30.10	764.6	32.2	0.1	90	e.	3.8	1.7	.....	.....	10	.....	.....	0.091	2.3	.....	Dr. Wierzbiski.
Eperies	29.26	743.1	30.18	766.5	33.4	0.8	78	se.	.....	.....	1	.....	10 8	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.81	731 7	30.10	764.5	38.7	3.7	84	e.	.....	.....	2	.....	4	.....	.....	0.039	1.0	.....	Andreas Rospini.
Hermannstadt	28.74	729.9	30.23	767.9	35.4	1.9	84	wsw.	.....	.....	2	.....	10	.....	.....	0.165	4.2	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.08	728.5	30.07	763.8	36.9	2.7	96	calm	.....	.....	0	.....	10	.....	.....	1.142	29.0	raining	The Staff.
Lemberg	29.15	740.3	30.19	766.8	30.2	— 1.0	76	s.	.....	.....	1	.....	2	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.64	676.6	30.19	766.9	26.6	— 3.0	96	calm	.....	.....	0	.....	10	.....	.....	0.665	16.9	.....	Dr. V. von Szontagh.
Pola	30.09	764 2	30.20	767.1	52.3	11.3	85	nw.	.....	.....	1	.....	10	.....	.....	0	0	.....	I. R.Hydrographic Office.
Szathmar	29.50	749.2	29.96	760.9	33.8	1.0	79	e.	.....	.....	1	.....	.....	.....	.....	0.010	0.4	.....	Joseph Midlinszay, S. J.
Szegedin	29.86	758.5	30.12	765.0	32.7	0.4	92	calm	.....	.....	0	.....	10	.....	.....	0.217	5.5	.....	Karl Stancel.
Trieste	30.13	765.3	30.23	767.8	47.5	8.6	92	w.	.....	.....	1	.....	10	.....	.....	0	0	foggy	Royal Academy.
Vienna	29.40	746.7	30.15	765.7	33.8	0.9	96	se.	.....	.....	1	.....	10	.....	.....	0.587	14.9	raining	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.35	745.5	29.45	748.0	49.2	9.6	89	sw.	7	3.1	.....	.....	4	.....	.....	0	0	misty	W. Boswell
Armagh, Observatory	29.24	742.7	29.48	748.8	52.9	11.6	93	s.	12	5.4	.....	.....	7	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.63	752.6	53.9	12.2	87	ssw.	18	8.0	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.13	739.9	29.66	753.4	50.8	10.4	100	s.	6	2.7	.....	.....	10	.....	.....	.....	.....	raining	Thomas Mackereth.
Bradford, Yorkshire	29.24	742.7	29.64	752.8	53.6	12.0	89	sw.	.....	.....	2	.....	10	.....	.....	0.21	5.3	raining	McLandsborough&Preston
Bridgetown, Barbadoes	30.05	763.3	30.08	764.0	80.0	26.7	78	se.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl.J.Surgenor, A. H.C.
Cardington	.....	.....	.....	.....	55.0	12.8	97	sw.	.....	.....	0.6	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.71	754 6	29.84	757 9	52.3	11.3	96	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.56	750.8	29.79	756.7	53.9	12.2	93	ssw.	.....	.....	5	.....	10	.....	.....	.....	.....	raining	The Staff.
Fort Napier, Natal	27.66	702.6	29.88	758.9	78.0	25.6	61	e.	.....	.....	1	.....	8	.....	.....	.....	.....	overcast	Corpl. F. Milner, A. H. C.
Galway	29.35	745.5	29.39	746.5	52	11.1	86	s.	.....	.....	2	.....	10	.....	.....	0.40	10.2	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.31	769.9	30.36	771.1	65.8	18.8	93	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Sgt. J. Norris, A. H C.
Glasgow, Observatory	29.22	742.2	29.43	747.5	50.8	10.4	89	sw.	.....	.....	5	.....	10	.....	.....	.....	.....	raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.65	753 1	29.82	757.4	54.2	12.3	90	sw.	.....	.....	5	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Guernsey	29.64	752.8	29.94	760.5	54.0	12.2	86	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	A. Collenette, F. M. S
Kew, Observatory	29.80	756.9	29.83	757.7	54.1	12.3	91	sw.	22	9.8	.....	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Leicester, Museum	29.47	748.5	29.72	754.9	54.2	12.3	97	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	J. C. Smith.
Malta, Mediterranean	29.95?	760.7?	30.05?	763.3?	58.6	14.8	76	nw.	.....	.....	3	.....	7	.....	.....	0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.16	766.1	30.20	767.1	71.5	21.9	73	ne.	.....	.....	3	.....	7	.....	.....	.....	.....	d. clouds	C. S. Duncombe
Oscott, St. Mary's College	29.19	741.4	29.71	754.6	52.5	11.4	98	s.	.....	.....	4	.....	10	.....	.....	.....	.....	misty	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.57	751.1	29.80	756.9	54.3	12.4	92	ssw.	.....	.....	5	.....	10	.....	.....	.....	.....	showery	The Staff.
Plymouth	29.73	755.1	29.81	757.2	53.0	11.7	97	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	drizzling	John Merrifield.
Sandwick Manse, Orkneys	29.21	741.9	29.31	744.5	45.9	7.7	97	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	showery	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.18	766.6	30.25	768.3	46.8	8.2	73	ne.	.....	.....	2	.....	9	.....	.....	.....	.....	gloomy	W. H. Lyne.
Sheffield	29.37	746.0	29.64	752.8	54.5	12.5	90	sw.	.....	.....	1	.....	10	.....	.....	0.22	5.6	drizzling	W. F. Cooper.
Silloth Rectory	29.52	749 8	29.55	759.6	49.4	9.7	97	sw.	.....	.....	2	.....	10	.....	.....	0.320	8.1	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.64	752.8	51.1	10.6	94	sw.	6	2.7	.....	.....	10	.....	.....	.....	.....	raining	Rev. S. J. Perry.
Stratfield Turgiss	29.62	752 3	29.84	757.9	53.7	12.1	96	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	raining	Rev.C.H.Griffiths,F.M.S.
Truro, Royal Institution	29.74	755.4	29.82	757.4	55	12.8	93	sw.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.38	746.2	29.40	746.7	54.1	12.3	90	sse.	35	15.6	.....	.....	10	.....	.....	blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.99	761.7	30.03	762.7	13	—10.6	70	w.	10	4.5	.....	0	2 8	.....	w.	0.025	0.6	fair	H. J. Cundall, C. E
Chatham, N. B*	30.07	763.8	30.13	765.3	3	—16.1	91	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Cornwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Dalhouse	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Father Point, Quebec*	30.09	764.3	30.11	764.8	8	—13.3	87	nw.	11	4.9	.....	0	8 8	.....	nw.	0.01	0.3	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.48	748.8	30.46	773.7	—17	—27.2	69	n.	13	5.8	.....	2 c8	0	n.	.....	0	0	fair	James Stewart.
Halifax, N. S*	29.92	760.0	30.06	763 5	21	— 6.1	96	nw.	10	4.5	.....	.....	10 k	.....	nw.	inap.	inap.	light snow	A. Allison.
Kingston, Ontario*	29.91	759.7	30.28	769.1	15	— 9.4	85	se.	8	3.6	.....	.....	10 n	.....	w.	0.01	0.3	light snow	A. P. Knight, M. A
Montreal, Quebec*	30.05	763.3	30.28	769.1	0	—14.4	73	w.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.41	747.0	30.15	765 8	25	— 3.9	88	sw.	17	7.6	.....	3 k	4 ks	w.	w.	0.02	0.5	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.54	750.3	30.28	769.1	22	— 5.6	100	w.	6	2.7	.....	10 c	0	sw.	.....	0.01	0.3	cloudy	H. Morgan.
Port Stanley, Ontario	29.57	751 1	30.27	768.8	20	— 6.7	91	w.	10	4.5	.....	.....	10 n	.....	sw.	inap.	inap.	cloudy	M. Payne.
Quebec, Quebec*	29.87	758 7	30.22	767.6	6	—14.4	76	n.	.....	.....	1	.....	10 k	.....	n.	0.02	0.5	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.67	753.6	30.17	766.3	8	—13.3	87	e.	5	2.2	.....	.....	10 ks	.....	w.	inap.	inap.	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.44	747.8	30.20	767.1	22	— 5.6	88	w.	18	8.0	.....	.....	10 s	.....	.....	0.29	7.4	cloudy	
St. Andrews, N. B	30.11	764.8	30.16	766.1	11	—11.7	82	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	
Sydney, C. B*	29.85	758.2	29.92	760.0	21	— 6.1	76	w.	7	3.1	.....	8 k	0	w.	.....	0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.85	758 2	30.26	768.6	23	— 5.0	80	w.	6	2.7	.....	0	2 8	.....	w.	0.10	2.5	clear	Magnetic Observatory.
Yarmouth, N. S*	30.07	763.8	30.14	765.5	21	— 6.1	73	nw.	17	7.6	.....	0	5 k	.....	nw.	0	0	fair	Lt. F. E. Wilmot, R N.
Cape Colony.																			
Cape St. Francis Lt. House	29.83	757.7	29.86	758.4	72.0	22.2	91	ene.	11.1	5.0	.....	3 c	0	.....	.....	0	0	light haze	John Duthie.
Springbok Fontein	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
CHINESE (*Sub-series*).																			
Sung-shu-chwang	24.85	631.3	.....	.....	11.1	—11.6	.....	se.	.....	.....	1	.....	0	.....	.....	.....	.....	foggy	
Tchang-kia-tchouang	30.45	773.5	30.56	776.3	22.8	— 5.1	19	calm	.....	.....	0	.....	0	.....	.....	0	0		**Mission, S. J.**
Zi-Ka-Wei, near Shanghai	30.53	775.4	30.55	776.0	26.4	— 3.1	36	nw.	9.4	4.2	.....	0	0	.....	.....	0	0	clear	**M. Marc Dechevrens, S.J**
DANISH.																			
Copenhagen	29.89	759.2	29.94	760.4	33.1	0.6	83	sse.	13	6	.....	.....	10	.....	.....	.....	.....	.....	**Oversergent Fischer.**
Fanoe	29.78	756.5	29.80	757.0	32.5	0.3	100	se.	.....	.....	4	.....	10	.....	.....	.....	.....	rain & fog	**Overloerer Lauridsen.**
Godthaab, Greenland	29.60	751.7	29.64	752.8	6.1	—14.4	87	nne.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	**S. Kleinschmidt.**
Ivigtut, Greenland	29.48	748.8	29.50	749.3	24.3	— 4.3	.....	se.	.....	.....	4	.....	6	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.69	754.1	29.74	755.3	— 8.7	—22.6	.....	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.47	748.4	29.51	749.5	17.2	— 8.2	85	ne.	.....	.....	8	.....	8	.....	.....	.....	.....	.....	**A. O. Thorlacius.**
Thorshavn	29.28	743.6	29.31	744.5	37.0	2.8	84	calm	0	0	.....	.....	10	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Vestervig	29.72	754.9	29.81	757.2	30.6	— 0.8	100	ese.	.....	.....	4	.....	10	.....	.....	.....	.....	foggy	**Loerer Oesterboi.**
Upernavik, Greenland	29.71	754.5	29.75	755.7	—12.5	—24.7	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	
FRENCH.																			
Agen, Normal School	.....	.....	.....	.....	53.6	12	90	calm	.....	.....	0	2 c	0	.....	.....	0	c	clear	**M. Labroue, Director.**
Alençon, Normal School	29.59	751.6	30.14	765.6	55.0	12.8	79	sw.	.....	.....	1	.....	kn	ne.	ne.	0.12	3.	.....	**M. Nicot, Director.**
Arras, Engineer School	29.59	751.5	29.85	758.1	46.9	8.3	96	.....	.....	.....	4	.....	10	.....	.....	0	0	covered	**M. Fénéon, Command't.**
Avignon, Normal School	30.19	766.8	30.27	768.8	54.7	12.6	79	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. Giraud, Director.**
Bar-sur-Seine	29.63	752.5	30.18	766.6	57.4	14.1	64	sw.	.....	.....	1	0	8 kn	.....	nnw.	0.201	5.1	very cloudy	**M. Saillard, Director.**
Beauvais, Normal School	29.78	756.5	30.05	763.3	55 0	12.8	77	sw.	.....	.....	1	.....	s	.....	sw.	0.236	6.0	very cloudy	**M. Frère Eugène Marié.**
Besançon, Normal School	.....	.....	.....	.....	47.8	8.8	97	s.	.....	.....	1	.....	n	.....	sw.	0.51	13.	.....	**M. Gobin, Director.**
Bordeaux, Observatory	29.95	760.8	30.21	767.4	59.7	15.4	68	sse.	.....	.....	1	.....	5	.....	sew.	0.004	0.1	cloudy	**M. Rayet, Director.**
Bourges, Normal School	29.57	751.0	30.12	765.1	54.5	12.5	87	s.	.....	.....	2	.....	n	.....	s.	0	0	.....	**M. Malet, Director.**
Brest, Naval Observatory	29.76	755.8	30.00	761.9	55.0	12.8	95	sw.	.....	.....	4	.....	9	.....	sw.	1.299	33.0	.....	**M. de Kermaréc, Dir.**
Caen, Normal School	29.93	760.2	30.00	762.1	58.6	14.8	63	sw.	.....	.....	2	.....	2	.....	sw.	0.031	0.8	slightly cl'dy	**M. Berson, Director.**
Châlons-sur-Marne, N.Sch'	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.118	3.0	.....	**M. Judot, Director.**
Charleville, Normal School	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**M. Grimard, Director.**
Clermont-Ferrand Obs'y	28.91	734.2	30.24	768.1	65.8	18.8	47	s.	.....	.....	1	8 c	0	.....	.....	0	0	¾ covered	**M. Alluard, Director.**
Cluny, Normal School	29.41	747.1	30.28	769.1	65.1	18.4	52	sw.	.....	.....	1	.....	5	.....	sw.	0.043	1.1	½ covered	**M. de Villemontée, Dir.**
Commercy, Normal School	29.27	743.4	30.14	765.6	55.4	13.	88	sw.	.....	.....	1	.....	10 k;n	sw.	sw.	0.161	4.1	covered	**Dr. Coulet, Director.**
Gap, Normal School	27 72	704.0	30.29	769.3	50.0	10.	41	n.	.....	.....	1	1 c	0	s.	.....	0	0	.....	**M. Jeangirard, Director.**
Grénsque, du Rhone	29.10	739.2	30.23	767.8	58.5	14.7	72	sw.	.....	.....	2	.....	3	.....	sw.	0	0	.....	**M. Klun, Director.**
Grenoble. Normal School	29.56	750.8	30.34	770.7	56.1	13.4	75	sse.	.....	.....	1	ck	0	ese.	.....	0.913	23.2	.....	**M. Ablard, Director.**
Guéret	28.85	727.8	30.26	768.7	54.5	12.5	65	sw.	.....	.....	2	0	5 n	.....	w.	0	0	cloudy	**M. Delorme, Dir.**
Lamballe, Normal School	29.85	758.1	30.11	764.8	60.8	16	59	sw.	.....	.....	2	.....	5	.....	sw.	0	0	cloudy	**M. Ollitrault, Director.**
Lescar, Normal School	29.03	752 5	30.19	766.7	64.4	:8.0	85	ese.	.....	.....	1	ck	0	.....	.....	0	0	slightly cl'dy	**M. Chauvin, Director.**
Lorient, Naval Observatory	29.97	761.2	30.07	763.8	58.1	14.5	86	ssw.	.....	.....	3	.....	10	.....	.....	0	0	covered	**Lt. T. Carré, Director.**
Lyon, St. Genis-Laval	29.24	742.6	30.30	769.5	61.0	16.1	69	sse.	.....	.....	1	8 c	0	.....	.....	0.217	5.5	very cloudy	**M. André, Director.**
Mans, Normal School	29.80	756.9	30.11	764.7	57.2	14	95	sw.	.....	.....	1	.....	5	.....	w.	0.177	4.5	cloudy	**M. Piboën, Director.**
Marseille, Observatory	29.95	760.8	30.22	767.7	62.4	16.9	64	wsw.	.....	.....	1	.....	8	.....	nnw.	0	0	.....	**M. Stephan, Director.**
Montlouis	25.10	637.6	29 95	760.6	47.3	8.5	68	sw.	9.4	4.2	.....	.....	5	w.	.....	0	0	.....	**M. Caré for Dr. Finss.**
Montpellier, Normal School	30.11	764.8	30.24	768.2	67.6	19.8	81	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	**M. Galzin, Director.**
Nancy, Normal School	29.37	746.0	30.14	765.6	59.0	15.0	70	w.	.....	.....	1	.....	k	.....	.....	0.126	3.2	.....	**M. Hasse, Director.**
Nantes, Observatory	30.00	761.9	30.16	766.0	62.1	16.7	69	ssw.	.....	.....	0.2	.....	7 k;kn	wsw.	wsw.	0.941	23.9	.....	**M. Lacrocque, Director.**
Perpignan, Observatory	30.18	766.6	30.29	769.4	65.3	18.5	65	ne.	1.8	0.8	.....	.....	10	.....	.....	0	0	.....	**Dr. Fines, Director.**
Pic-du-Midi, Summit	21.49	545.9	.....	.....	35.2	1.8	.....	w.	.....	.....	1	.....	5	.....	w.	0	0	cloudy	**M. Vaussenat.**
Privas, Normal School	29.21	742.0	30.27	768.9	62.6	17	64	n.	.....	.....	1	.....	1	n.	n.	0	0	clear	**M. Taillen.**
Puy de Dôme Obs'y, Summit	25.40	645.1	.....	.....	47.7	8.7	79	w.	.....	.....	2	.....	5	.....	.....	0.268	6.8	½ covered	**M. Alluard, Director.**
Rochefort, Naval Obs'y	30.19	766.9	30.22	767.7	57.2	14.0	89	s.	.....	.....	1	.....	8	.....	ssw.	0.08	2.	¾ covered	**Lt. E. Decante, Director.**
Roche-sur-Yon, N. School	29.96	761.0	30.18	766.5	50.2	10.1	74	s.	.....	.....	1	.....	1	.....	.....	0	0	clear	**M. Brotier, Director.**
Rodez, Normal School	28.08	713.2	30.24	768.1	55.0	12.8	75	w.	.....	.....	1	.....	k	.....	sw.	0	0	.....	**M. Seger, Director.**
Rouen, Normal School	29.91	759.7	29.96	760.9	61.5	16.4	77	se.	.....	.....	2	.....	0	.....	.....	0.177	4.5	clear	**M. Mouillot.**
Saint Lô	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.95	760.5	30.11	764.7	56.1	13.4	69	sw.	.....	.....	1	.....	10	w.	.....	0	0	.....	**M. Renou, Director.**
Toulouse, Observatory	29.59	751.6	30.32	770.1	57 6	14.2	78	se.	.....	.....	1	.....	5	n.	.....	0	0	cloudy	**M. Baillaud, Director.**
Tours	29.98	761.4	30.15	765.9	56.5	13.6	79	sw.	.....	.....	1	1	1	w.	sw.	0.453	11.5	clear	**M. de Tastes.**
Versailles, Observatory	29.60	751.7	30.09	764.2	56.8	13.8	73	sw.	.....	.....	1	.....	.....	.....	.....	0.020	0.5	.....	**Dr. A. Hérigny, Director.**
Sub-series.																			
St. Martin du Hinx	30.10	764.5	30.25	768.3	58.5	14.7	80	n.	4.0	1.8	.....	c	6 k	.....	wsw.	0	0	.....	**M. Cartier, Director.**
GERMAN.																			
Ansbach	28.56	725.5	30.02	762.5	52.5	11.4	89	w.	.....	.....	6	.....	10	w.	.....	0.681	17.3	.....	**Prof. Jnedt.**
Bamberg	29.13	740.0	29.98	761.4	52.0	11.1	93	w.	.....	.....	1	.....	10 n	.....	w.	0.622	15.8	raining	**Prof. Dr. Hoh.**
Berlin	29.82	757.4	29.97	761.2	36.3	2.4	100	se.	.....	.....	3	.....	10	.....	.....	0	0	foggy	**Dr. Lensch.**
Breslau	29.51	749.6	30.04	763.1	29.7	— 1.3	94	se.	.....	.....	2	.....	4	wnw.	.....	0.055	1.4	.....	**Royal University Obs'y.**
Carlsruhe	29.63	752.5	30.07	763.7	57.0	13.9	80	sw.	.....	.....	5	.....	10	sw.	.....	0.051	1.3	.....	**Albert Senz.**
Cassel	29.17	741.0	29.89	759.1	49.3	9.6	99	s.	.....	.....	2	.....	10	s.	.....	0.185	4.7	.....	**Dr. H. Möhl.**
Frankfort-on-the-Main	29.61	752.2	29.98	761.5	54.0	12.2	95	sw.	.....	.....	1	.....	10	.....	.....	0.917	23.3	.....	**Physical Society.**
Friedrichshafen	28.76	730.4	30.20	767.1	53.2	11.8	83	sw.	.....	.....	7	.....	10	sw.	.....	0.201	5.1	.....	**Wilhelm, Chief Tel.**
Hamburg	29.78	756.3	29.87	758.6	36.7	2.6	94	se.	.....	.....	3	.....	10	.....	.....	0	0	light fog	**E. Preller.**
Kiel	29.91	759.6	29.92	760.0	36.5	2.5	89	se.	.....	.....	2	.....	10	.....	.....	0	0	.....	**Prof. Dr. G. Karsten.**
Leipsic, Astrom'l Obs'y	29.52	749.7	29.95	760.6	43.5	6.4	98	s.	.....	.....	1	.....	10	.....	.....	0.220	5.6	rainy	**H. Leppig, Asst.**
Magdeburg	29.72	754.9	29.91	759.8	41.9	5.5	94	e.	.....	.....	1	.....	10	.....	.....	0.012	0.3	foggy	**Weather Observatory.**
Memel	30.11	764.7	30.15	765.9	32.0	0	81	w.	.....	.....	4	.....	10 ks	.....	.....	.....	.....	.....	**Issermann.**
Munich	28.23	717.0	30.10	764.4	54.3	12.4	82	sw.	.....	.....	8	.....	10	nw.	.....	0.205	5.2	.....	**Central Station.**
Neufahrwasser	30.10	764.6	30.12	765.0	26.2	— 3.2	82	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	**A. Lothes.**
Neustadt, Palatinate	29.51	749.5	30.04	762.9	56.3	13.5	78	w.	.....	.....	2	.....	10	w.	.....	0.276	7.0	rainy	**Dicknether.**
Stuttgart	29.11	739.3	29.99	761.8	58.1	14.5	81	sw.	.....	.....	1	.....	8	w.	.....	0.056	1.5	raining	**Prof. Dr. Schoder.**
Wustrow	29.96	760.9	29.98	761.5	32.4	0.2	92	se.	.....	.....	2	.....	10 s	.....	.....	0	0	.....	**Profs. Brandes & Reimer.**
GREEK.																			
Athens	29.82	757.4	30.21	767.2	61.2	16.2	.....	sw.	.....	.....	10	0	0	.....	.....	0.002	0.04	clear	**Schmidt & Wourlisch.**
INDIAN.																			
Kurrachee	30.02	762.6	30.08	763.9	74.7	23.7	68	wsw.	14.0	6.3	.....	.....	2	.....	.....	0	0	d. clouds	
Deesa	29.52	749.8	30.00	761.9	80.7	27.1	32	wnw.	7.0	3.1	.....	.....	4	wsw.	.....	0	0	d. clouds	
Bombay	29.92	759.8	29.95	760.8	80.6	27.0	62	wnw.	9.0	4.0	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.10	713.6	29.94	760.5	83.5	28.6	20	ese.	8.0	3.6	.....	.....	0	.....	.....	0	0	blue sky	
Belgaum	27.41	696.2	29.94	760.6	79.1	26.2	27	ese.	2.0	0 9	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.26	743.2	30.03	762.8	63.6	17.6	57	ne.	4.0	1.8	.....	.....	0	.....	.....	0	0	d. clouds	
Roorkee	29.08	738.8	30.01	762.3	67.4	19.7	50	w.	.....	.....	.....	.....	3	.....	w.	0	0	.....	
Agra	29.45	748.0	30.03	762.6	74.2	23.4	40	calm	0	0	.....	.....	2	.....	e.	0	0	d. clouds	
Nagpur	28.90	735.6	30.01	762.3	79.7	26.5	39	calm	0	0	.....	.....	3	.....	.....	0	0	blue sky	
Jubbulpore	28.66	728.0	30.04	763.0	73.2	22.9	47	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.63	752.0	29.99	761.8	69.3	20.7	49	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.70	754.4	30.03	762.6	64.8	18.2	68	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.86	758.3	30.05	763.2	65.0	18.3	68	wnw.	2.4	1.1	.....	.....	2	wnw.	wnw.	0	0	.....	
Hazaribagh	27.98	710.6	30.05	763.2	65.5	18.6	44	calm	4.3	1.9	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.95	760.6	30.03	762.8	72.4	22.4	63	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	30.03	762.8	30.05	763.3	66.1	18.9	62	wnw.	0.5	0.2	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.94	760.4	30.06	763.5	67.9	19.9	70	ne.	5.0	2.2	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.96	761.0	30.05	763.4	67.6	19.8	65	w.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.72	755.0	30.08	764.0	61.9	16.6	89	ne.	2.0	0.9	.....	.....	6	w.	w.	0	0	d. clouds	
Zanzibar	29.88	758 9	29.90	759 5	84.7	29.3	73	s.	4.7	2.1	.....	.....	7	.....	se.	0.58	14.7	d. clouds	
Jeypore	28.54	725.0	30.01	762.3	73.2	22.9	66	wnw.	1.6	0.7	.....	.....	6	.....	wnw.	0	0	d. clouds	
Bellary	28.48	723.4	.....	.....	78.8	26.0	40	e.	6.	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.73	755.1	.....	.....	81.1	27.3	65	e.	2.	0.9	.....	.....	4	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.																			
Udine	29.80	756.9	30.23	767.8	46.2	7.9	87	calm	0	0			10			0	0		Prof. Giovanni Clodig.
Milan	29.68	753.9	30.22	767.7	48.4	9.1	75	w.	4.9	2.2			7	wnw.		0	0		Prof. Schiapparelli.
Padua	30.10	764.4	30.21	767.3	46.0	7.8	86	se.	0.7	0.3			10			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.29	744.0	30.24	768.0	44.2	6.8	87	ene.	0	0			9			c	0		Prof. F. F. Denza.
Genoa	30.04	763.0	30.24	768.0	54.0	12.2	92	se.	0.7	0.3			10	s.		0.020	0.5		Prof. G. M. Garibaldi.
Mondovi	28.26	717.9	30.26	768.7	45.5	7.5	70	w.			2		5			0	0		Prof. D. C. Bruno.
Pesaro	30.15	765.9	30.21	767.2	48.9	9.4	71	n.	15.4	6.9			10	nw.		0	0		Prof. Luigi Guidi.
Florence	29.99	761.8	30.26	768.5	54.1	12.3	82	sw.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	30.08	764.0	30.17	766.2	56.5	13.6	85	nne.	0	0			10			0	0		Prof. P. Monte.
Rome	30.08	763.9	30.25	768.4	56.1	13.4	87	nw.	0	0			10			0	0		Prof. P. Tachini.
Lecce	29.97	761.3	30.23	767.9	57.0	13.9	74	wnw.	11.9	5.3			2			0	0		Prof. C. de Giorgi.
Cosenza	29.37	746.1	30.29	769.3	55.4	13.0	77	sw.	2.5	1.1			9	w.		0	0		Prof. D. Conti.
Cagliari	30.08	763.9	30.27	768.9	57.2	14.0	77	nw.			4		0			0	0		Prof. A. Pacinotti.
Palermo	30.05	763.3	30.30	769.7	59.4	15.2	61	ne.	2.5	1.1			8			0	0		Prof. G. Caccatore.
Syracuse	30.22	767.5	30.26	768.6	58.1	14.5	80	e.	3.8	1.7			5	e.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.74	755.5	30.28	769.1	54.3	12.4	92	w.	3.8	1.7			10	nw.		0.016	0.4		Prof. F. Brioschi.
Stelvio	22.30	566.5			36.3	2.4	77	se.			2		10			0.394	10.0	misty	Prof. P. F. Denza.
Valdobbia	22.33	567.2			33.1	0.6	71	e.			2		3			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.74	755.3	29.77	756.1	26.2	— 3.2	100	n.			2		10 ck		n.	0.201	5.1	cloudy	Hattori.
Awomori	29.71	754.6	29.75	755.6	20.0	— 6.7	86	w.	6.7	2.9			10 n			0.183	4.6	snowing	K. Ogawa.
Hakodate	29.08	753.8	29.09	754.1	19.0	— 7.2	86	nw.	18.0	8.0		0	5		w.	0.020	0.5	snowing	
Hamamatsu	29.72	754.9	29.75	755.6	42.9	6.1	70	w.			4	0	7 ks		se.	0	0	cloudy	
Kagoshima	30.07	763.9	30.09	764.2	37.9	3.3	84	nnw.			4		10 n			0.063	1.6	light rain	G. Miyanohaza.
Kioto	29.09	754.1	29.87	758.7	36.9	2.7	61	wnw.	6.6	2.9		0	0			0.040	1.0	clear	M. Tojima.
Kochi	29.90	759.4	29.92	759.9	41.6	5.3	60	n.	26.5	11.9		0	4		w.	0	0		K. Kusunose.
Miasaka	30.01	762.1	30.03	762.8	45.1	7.3	46	wnw.			4	0	7 ks;s		w.	0	0	cloudy	K. Masusaki.
Nagasuki, I. M. Obs'y	29.92	759.9	30.13	765.3	36.7	2.6	66	nw.	4.8	2.1			10 s			0.070	1.8		S. Takehayashi.
Niigata	29.79	756.6	29.83	757.7	33.4	0.8	87	n.	8.7	3.8			10 n			0.185	4.7	light snow	M. Morita.
Nohiru	29.08	753.8	29.09	754.2	32.6	0.3	73	nw.	18.1	8.1		0	9 ks;c			0	0	cloudy	H. Midzushina.
Numazu	29.56	750.8	29.59	751.7	51.1	10.6	52	ssw.			6	4 ck	0			0	0	fair	R. Kaneda.
Sakai	30.03	762.8	30.04	763.1	35.9	2.2	76	w.			2		10 ks			0.693	17.6	cloudy	K. Yamawchi.
Sapporo					14.0	—10.0	85	nw.	15.0	6.7		0	7			0	0	cloudy	
Tokei Obs'y, Yeddo	29.57	751.1	29.64	753.0	40.4	4.7	86	nnw.	5.8	2.6			10 ks;s			0.105	2.7	cloudy	The Staff.
Wakayama	29.87	758.7	29.93	760.1	40.9	4.9	57	nw.	1.7	0.8			10 ck			0	0	cloudy	Y. Kuwamura.
Osaka	29.86	758.4	29.87	758.8	38.1	3.4	61	wnw.	13.8	6.2		0	0			0	0	clear	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.87	758.7	30.05	763.3	81.5	27.5	60	e.	15.0	6.7		2 cs;c	5 ks;k		e.	0.05	1.3	fair	Oliver & Figon.
MEXICAN.																			
Altata																			H. Diaz Pena.
Guanajuato	23.69	601.8	29.91	759.8	48.9	9.4	87	wnw.	inap.	inap.		2 cs	0	e.		0	0	clear	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.26	768.6	42.6	5.9	81	nnw.			1	3 cs	0			0	0	clear	Prof. M. Leal.
Mazatlan	29.76	755.9	30.02	762.6	68.0	20.0	58	nnw.	0.9	0.4		2 cs	0			0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	21.14?	587.6?	30.38	771.6	38.7	3.7	90	calm	0	0		3 c	1 s			0	0	⅛ cloudy	The Staff.
Morelia	24.37	619.0	30.26	768.5	43.2	6.2	71	se.			1	1 c	0	s.		0	0	clear	M. Tena, M. D.
Puebla, Catholic Institute	23.35	593.0	30.34	770.5	38.3	3.5	79	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
Zacatecas	22.51	571.6	30.26	768.7	43.2	6.2	62	sw.	7.8	3.5			10 s		sw.	0	0	covered	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.89	759.3	29.89	759 3	51.8	11.0		wsw.			5					0.498	12.5		
Groningen	29 75	755.0	29.80	757.0	45.0	7.2		s.			1					0.270	7.0		
Helder																			
Hellevoetsluis	29.80	758.4	29.86	758.4	49.5	9.7	97	wsw.			4					0.138	3.5		
Utrecht	29.81	757.2	29.80	758.4	50.7	10.4	100	sw.			3					0.091	2.3	raining	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.7			83.1	28.4	70	w.	0.5	0.2			4			0	0		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.61	752.0	29.67	753.6	37.4	3.0	76	sse.	13	6			8					raining	
Brono	29.47	748.4	29.50	749.4	34.2	1.2	89	ssw.	18	8			10			0.295	7.5	raining	
Christiania	29.71	754.7	29.87	758.7	16.9	— 8.4	100	ene.	4	2			10			0	0		
Gjesvær	29.52	749.7	29.54	750.3	25.7	— 3.8		wsw.			6		10						
Lodingen	29.49	749.0	29.54	750.2	24.8	— 4.0	73	calm			0		8			1.063	27.0		
PORTUGUESE.																			
Angra, Azores	30.04	763.0	30.20	767.0	60.3	15.7	83	nnw.	4.3	1.9			2			0.098	2.5		Dr. J. A. Sampaio.
Campo Major	29.34	745.1	30.35	770.8	59.0	15.0	70	ese.	1.3	0.6			2			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.27	768.9	30.39	771 1	69.1	20.6	76	sw.	7.4	3 3			3			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.02	762.0	30.39	771.9	58.3	14.6	67	wsw.	4.9	2.2			5	sw.		0	0		The Staff.
Ponta Delgada, Azores	30.15	765.9	30.22	767.7	65.1	18.4	62	w.	1.8	0.8			4			0.28?	7.3		
Saint Paul de Loando	29.70	755.8	29.90	760.9	74.5	23.6	90	wnw.	1.8	0.8			3	s.		0	0		
Serra da Estrella	25.55	648.9	30.30	771.2	45.3	7.4	86	s.	15.0	6.7			4			c	0	foggy	
RUSSIAN.																			
Akmolinski	28.87	733.2	30.00	761.9	28.6	— 1.9	100	sw.	27	12			10 n						Major K. Lasarew.
Archangel	29.78	756.3	29.80	756.8	2.1	—16.6	81	n.	4	2			10			0	0		Capt. Sselliwerstow.
Ashurada	29.97	761.1	29.87	758.7	53.8	12.1	91	nnw.	7	3		ck	5 s			0	0	light clouds	
Astrakhan	29.90	761.0	29.88	758.9	30.1	2.3	87	nw.	13	6			10 s;n			0.075	1.9		Capt. Wisganow.
Baku	29.80	757.0	29.76	755.8	55.2	12.9	49	ssw.	18	8		2 ck	0			0	0		
Barnaul	29.78	756.3	30.31	769.9	21.6	— 5.8	94	sw.	22	10			10			0.488	12.4		Meteorological Obs'y.
Bieloserak	29.11	739.4	29.02	752.4	2.8	—16.2	90	nw.	11	5		7 c	0			0	0		
Dorpat	29.75	755.7	30.02	762.5	17.2	— 8.2	100	w.	7	3			10 ks			0	0		Observatory.
Ekaterinburg	28.20	717.8	29.26	743.3	22.3	— 5.4	93	sse.	9	4			10			0.008	0.2		Meteorological Obs'y.
Elissawetgrad	29.08	753.8	30.15	765.8	31.1	— 0.5	64	nw.	31	14		0	3 s			0	0		
Kasan	28.92	734.5	29.21	741.8	7.0	—13.9	78	s.	9	4			10			0.051	1.3	light clouds	Observatory.
Kem	29.67	758.6	29.92	759.9	3.2	—16.0	90	nw.	18	8			10 ks			0	0	heavy cl'ds	
Kertch	30.14	765.6	30.10	766.1	30.2	— 1.0	92	nw.	4	2		0	3 k			0	0		Lagorio & Sastyrez.
Kieff	29.42	747.2	30.09	764.2	27.7	— 2.4	55	nw.	27	12		0	1 ks			0	0		Observatory.
Koslov	28.93	734.7	29.49	749.0	11.3	—11.5	81	wnw.	22	10		0	8 s			0.071	1.8	snow-drift	
Libau	30.00	763.6	30.09	764.2	33.3	0.7	81	wsw.	9	4			8			0	0		E. Quass.
Lugan	29.03	752.0	29.83	757.6	26.6	— 3.0	57	wsw.	34	15			3			0	0		Meteorological Obs'y.
Moscow	28.95	735.2	29.40	748.3	9.9	—12.3	87	n.	17.9	8.0			9 ks			0.043	1.1		
Nikolaiev	30.14	765 5	30.21	767.4	33.8	1.0	79	wnw.	4	2		0	0			0	0		Capt. Kurdakow.
Pekin, China	30.38	771.0	30.52	775.2	25.3	— 3.7	36	calm	0	0		0	0			0	0		Physical Observatory.
Petrozavodsk	29.58	751.3	29.80	756.8	8.1	—13.3	84	nnw.	16	7		c	7 ks			0	0		Dr. Bergmann.
Pinsk	29.05	753.1	30.17	766.4	30.2	— 1.0	71	nw.	9	4		0	6 ks			0	0		
Poti	30.02	762.4	30.04	762.9	52.2	11.2	90	wsw.	7	3			10 n					raining	
St. Petersburg	29.90	759.5	29.92	759.9	— 0.1	—17.8	89	nw.	13	6			10 n			inap.	inap.		Central Physical Obs'y.
Samarkand																			
Sevastopol	30.00	762.1	30.17	766.3	39.0	3.9	69	nnw.	20	9		0	7 s			0	0		
Semipalatinsk	29.74	755.4	30.44	773.1	22.3	— 5.4	85	s.	16	7			10			0	0		Major Lasarew.
Staroi Bykhov	29.56	750.7	30.04	763.1	21.7	— 5.7	45	nw.	34	15		0	2 k			0.114	2.9	snow-drift	
Tiflis	28.48	723.4	29.91	759.7	50.5	10.3	52	n.	13	6		4 cs	0			0	0		Physical Observatory.
Tomsk	29.82	757.4	30.12	765.1	16.7	— 8.5	69	s.	13	6			10						
Vintka	28.40	721.3	29.06	738.2	6.3	—14.3		ne.	4	2			10			0.071	1.8		
Warsaw	29.72	754.9	30.17	766.3	29.1	— 1.6	82	s.	7	3		0	0			0	0		Astronomical Obs'y.
Wilna	29.69	754.1	30.13	765.4	27.3	— 2.6	85	sw.	2	1			8			0	0		Berg, Assistant.
Yeniseisk	29.90	759.4	30.21	767.4	7.2	—13.8	95	sse.	7	3			10			0.012	0.3		M. O. Marks.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From	Inch.	Mill.		
Scottish.																			
Monach Lt	.....	.....	29.27	743.4	50	10.0	93	ssw.	.....	.....	4	.....	10	.....	.....	0.2	5.	overcast	J. Youngclause
North Unst	.....	.....	29.44	747.8	.....	.....	.....	s.	.....	.....	4	.....	10	.....	.....	blank	blank	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.21	767.3	30.32	770.0	61.7	16.5	84	s.	1.6	0.7	.....	1 c	0	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.17	766.2	30.22	767.7	69.4	20.8	46	se.	4.9	2.2	.....	3	2	sw.	.....	0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.36	695 0	30.36	771.1	55.9	13.3	76	sw.	1.3	0.6	.....	.....	1	.....	.....	0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	28.16	715.3	30.47	773.8	48.0	8.9	87	calm	0.2	0.1	.....	4	0	wsw.	.....	0.008	0.2	light clouds	The Staff.
Murcia, Met. Obs'y	30.21	767.4	30.32	770.2	65.5	18.6	72	sw.	0.9	0.4	.....	0	0	.....	.....	0	0	clear	Olayo Diaz, Director.
Oviedo	29.34	745.2	30.20	767.0	66.2	19.0	82	s.	16.1	7.2	.....	4 8	0	n.	.....	0.039	1.0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.26	743.1	30.16	766.0	59.2	15.1	80	ssw.	26.2	11.7	.....	.....	4	.....	.....	0	0	cloudy	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.75	755.7	29.81	757.1	73.5	23.1	99	nw.	17.2	7.7	.....	.....	10 n	.....	.....	7.327	186.1	misty	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.32	770.0	30.42	772.6	64.2	17.9	55	calm	0	0	.....	0	0	.....	.....	0	0	.....	Capt. G. Pujazon, R. A.
San Juan de Porto Rico, W.I	30.00	762.0	30.09	764.3	74.1	23.4	87	calm	0	0	.....	3 cs	3 k	s.	se.	0.150	3.8	d. clouds	Manuel Maso.
Swedish.																			
Hapsaranda	29.92	769.0	29.96	761.0	—19.1	—28.4	100	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Umea	29.86	758.4	29.91	759.7	9.7	—12.4	92	e.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Hernosand	29.78	756.5	29.84	757.8	9.0	—12.8	92	calm	.....	.....	0	.....	3	.....	.....	0	0	.....	
Stockholm	29.79	756.7	29.97	761.2	23.0	— 5.0	90	wsw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Wisby	29.93	760.1	29.98	761.6	28.0	— 2.2	87	wsw.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.82	757.4	29.91	759.6	23.5	— 4.7	100	ssw.	15.2	6.8	.....	.....	8	.....	w.	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	28.87	733.4	30.29	769.4	57.0	13.9	77	n.	.....	.....	1	.....	6	.....	.....	0.583	14.8	cloudy	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.28	769.0	46.0	7.8	71	n.	17	7.5	.....	.....	10	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	30.25	768.3	57.6	14.2	.....	w.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.08	763.9	63.9	17.7	77	sw.	.....	.....	2	.....	8 n	.....	sw.	0.30	7.6	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.91	683.5	.....	.....	49	9.4	79	nw.	.....	.....	1	.....	10 c	.....	se.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.24	768.1	30.33	770.4	24	— 4.4	61	nw.	4	1.8	.....	0	1 8	.....	nw.	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.55	750.6	30.26	768.6	19	— 7.2	84	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.08	737.0	30.20	767.1	18	— 7.8	61	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	27.41	696.2	30.45	773.4	6	—14.4	76	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.10	739.1	30.33	770.4	38.0	3.3	72	nw.	2	0.9	.....	.....	10 k	.....	w.	0	0	cloudy	H. C. Smith.
Atlantic City, New Jersey	30.30	769.6	30.32	770.1	25	— 3.9	73	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.16	766.1	30.36	771.1	34	1.1	88	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.33	770.4	30.38	771.6	36	2.2	61	n.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	Geo W Felger.
Barnegat, New Jersey	30.29	769.4	30.31	769.9	31.0	— 0.6	78	nw.	8	3.6	.....	5 k	0	nw.	.....	0	0	fair	G. A. Hill.
Behring Id., Behring Sea	28.87	733.3	28.89	733.8	26.5	— 3.1	.....	sw.	21	9.4	.....	.....	10 n	.....	.....	0.03	0.8	cloudy	Leonard Steineger.
Bennett, Fort, Dakota	28.76	730.5	30.50	774.7	0	—17.8	72	nw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.47	697.7	30.45	773.4	—10	—23.3	58	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Billings, Montana	26.95	684.5	.....	.....	— 2	—18.9	.....	n.	.....	.....	2	0	4 s	.....	.....	0	0	fair	T. Gibson.
Bismarck, Dakota	28.46	722.9	30.45	773.4	4	—15.6	76	n.	0	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	Cyrus Cramer
Block Island, Rhode Island	30.24	768.1	30.27	768.8	30	— 1.1	68	n.	20	8.9	.....	0	0	.....	.....	0	0	clear	A. T. Elker.
Boise City, Idaho	27.47	697.7	30.40	772.1	— 5	—20.6	91	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	30.08	764.0	30.25	768.3	32.0	0.0	78	nw.	0	2.7	.....	7 ck	0	w.	.....	0	0	fair	O. B. Cole.
Brownsville, Texas	30.27	768.8	30.32	770.1	39.6	4.2	100	n.	0	2.7	.....	.....	10 n	.....	n.	1.20	30.5	light rain	M. McCarty.
Buffalo, New York	29.48	748.8	30.28	769.1	25	— 3.9	88	sw.	7	3.1	.....	3 ck	7 ks	sw.	sw.	inap.	inap.	cloudy	W. Finn.
Buford, Fort, Dakota	28.37	720.6	30.57	776.5	0	—17.8	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. A. Mellen.
Burlington, Vermont	29.99	761.7	30.30	769.6	10.9	—11.7	66	ne.	3	1.3	.....	0	1 8	.....	w.	0.03	0.8	clear	G. C. Schneller.
Cairo, Illinois	29.92	760.0	30.34	770.6	32.0	0.0	84	e.	2	0.9	.....	.....	10 s	.....	.....	inap.	inap.	threatening	W. H. Ray.
Cape Henry, Virginia	30.33	770.4	30.35	770.9	29	— 1.7	77	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.31	769.9	30.34	770.6	35.0	1.7	79	nw.	14	6.3	.....	0	0	.....	.....	0	0	clear	W. E. Smith.
Cape Mendocino, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. J. McLean.
Cedar Keys, Florida	30.26	768.6	30.28	769.1	48	8.9	77	ne.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	29.44	747.8	30.31	769.9	20.5	— 6.4	69	n.	5	2.2	.....	.....	10 n	.....	n.	0.07	1.8	light snow	L. A. Welsh.
Charleston, S. Carolina	30.27	768.8	30.33	770.4	41	5.0	92	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.41	747 0	30.30	769.6	32.0	0.0	79	ne.	7	3.1	.....	0	fg.	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.48	748.8	30.34	770.6	33.0	0.6	88	nw.	1	0.4	.....	0	9s;fg	.....	w.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.05	610.9	30.36	769.6	6.4	—14.2	60	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.55	750.6	30.30	769.6	15.1	— 9.4	76	w.	6	2.7	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. Mitchell.
Chincoteague, Virginia	30.30	769.6	30.32	770.1	30	— 1.1	88	n.	8	3.6	.....	0	hz.	.....	.....	0	0	dense haze	C. F. Dickens.
Cincinnati, Ohio	29.65	753.1	30.34	770.6	32	0.0	88	s.	5	2.2	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	R. B. Watkins.
Cleveland, Ohio	29.54	750.3	30.32	770.1	25.8	— 3.4	90	sw.	9	4.0	.....	.....	10 s	.....	sw.	0.01	0.3	cloudy	J. B. Newlin.
Coleman City, Texas	28.70	729.0	30.58	776 7	20	— 6.7	87	n.	8	3.6	.....	.....	10 s	.....	n.	0.09	2.3	cloudy	L. Dorman.
Columbus, Ohio	29.43	747.5	30.33	770.4	28	— 2.2	77	nw.	2	0.9	.....	.....	10 s	.....	.....	0.19	4.8	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.48	723.4	30.50	774.7	19.0	— 7.2	64	n.	7	3.1	.....	.....	10 s	.....	.....	0.23	5.8	cloudy	J. McGlone.
Custer, Fort, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. B. Lamar.
Davenport, Iowa	29.65	753.1	30.36	771.1	14	—10.0	80	nw.	8	3.6	.....	.....	10 n	.....	.....	0.01	0.3	light snow	R. R. Martin.
Davis, Fort, Texas	25.32	643.1	30.30	769.6	17	— 8.3	82	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. Williams.
Dayton, Washington T'y	28.62	726.9	30.42	772.4	8	—13.3	80	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	D. Moore.
Deadwood, Dakota	25.41	645.4	30.35	770.9	1	—17.2	100	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. Willson.
Delaware Breakwater, Del	30.33	770.4	30.35	770.9	32	0.0	78	nw.	12	5.4	.....	0	hz.	.....	.....	0	0	clear	T. S. Townsend.
Denison, Texas	29.67	753.6	30.51	774.9	16.0	— 8.9	100	n.	8	3.6	.....	0	0	.....	.....	0.19	4.8	clear	J. W. Byram.
Denver, Colorado	24.85	631.2	30.37	771.4	1.0	—17.2	75	s.	4	1.8	.....	0	0	.....	.....	0.02	0.5	clear	F. M. Neal.
Des Moines, Iowa	29.46	748.3	30.42	772.7	7	—13.9	52	nw	4	1.8	.....	7 cs	0	w.	.....	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.54	750.3	30.30	769.6	24.0	— 4.4	88	w.	4	1.8	.....	.....	10 s	.....	nw.	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.74	704.6	30.49	774.4	— 2	—18.9	56	calm	.....	.....	0	0	0	.....	.....	0	0	clear	V. P. Temple.
Dubuque, Iowa	29.60	751.8	30.37	771.4	2.8	—16.2	60	calm	0	0	.....	10 c	0	.....	.....	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.43	747.5	30.24	768.1	7	—13.9	76	w.	4	1.8	.....	4 cs	0	w.	.....	0	0	fair	N. B. Conger.
Eagle Pass, Texas	29.03	752.6	30.47	773.9	31.7	— 0.2	68	nw.	13	5.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	F. Belford.
Eagle Rock, Idaho	25.52	648.2	30.48	774.2	—24	—31.1	100	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	30.10	764.5	30.17	766.3	11.0	—11.7	70	nw.	10	7.2	.....	0	2 s	.....	nw.	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.48	698.0	30.40	772.1	— 2	—18.9	38	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
El Paso, Texas	26.43	671.3	30.31	769.9	20.0	— 6.7	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.52	749.8	30.29	769.4	30	— 1.1	88	sw.	8	3.6	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	Peter Wood.
Escanaba, Michigan	29.47	748.5	30.19	766.8	7.0	—13.9	76	sw.	3	1.3	.....	2 c	1 s	sw.	sw	0	0	clear	George Heathcote.
Fredericksburg, Texas	28 60	726.4	30.42	772.7	25	— 3.9	88	n.	8	3.6	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	Frank Hulwegler.
Galveston, Texas	30.26	768.6	30.31	769.9	46	7.8	83	n.	29	13.0	.....	.....	10 n	.....	n.	0.03	0.8	light rain	E. O'C. MacInernay.
Grand Haven, Michigan	29.54	750.3	30.25	768.3	24.0	— 4.4	83	w.	10	4.5	.....	.....	10 ks	.....	sw.	0.01	0.3	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.32	643.1	30.22	767.6	27	— 2.8	80	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.32	770.1	30.34	770.6	38	3.3	82	calm	0	0	.....	hz.	0	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	26.02	660.9	30.45	773.4	— 8	—22.2	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. C. Smith.
Henrietta, Texas	29.50	749 3	30.57	776.5	7	—13.9	91	nw.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	J. P. Sherry.
Huron, Dakota	28.90	734.0	30.44	773.2	—4.2	—20.1	58	nw.	7	3.1	.....	3 cs	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.43	747.5	30.27	768.8	27	— 2.8	88	nw.	1	0.4	.....	.....	10 n	.....	.....	0.07	1.8	light rain	J. F. Jirdinston.
Indianola, Texas	30.29	769.4	30.32	770.1	37.2	2.9	89	n.	35	15.6	.....	.....	10 k	.....	n.	0.53	13.5	cloudy	I. A. Reed.
Jacksboro, Texas	29.33	745.0	30.57	776.5	10	—12.2	80	n.	4	1.8	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	D. J. Carr.
Jacksonville, Florida	30.28	769.1	30.33	770.4	46	7.8	93	ne.	1	0.4	.....	5 cs	fg.	.....	.....	0	0	fair	J. W. Smith.
Keogh, Fort, Montana	27.76	705.1	30.45	773.4	1	—17.2	72	calm	0	0	.....	9 c	0	w.	.....	0	0	cloudy	A. Schneider.
Keokuk, Iowa	29.70	754.4	30.40	772.1	14.0	—10.0	80	nw.	4	1.8	.....	.....	10 n	.....	nw.	0.15	3.8	light snow	F. Z. Gosewisch.

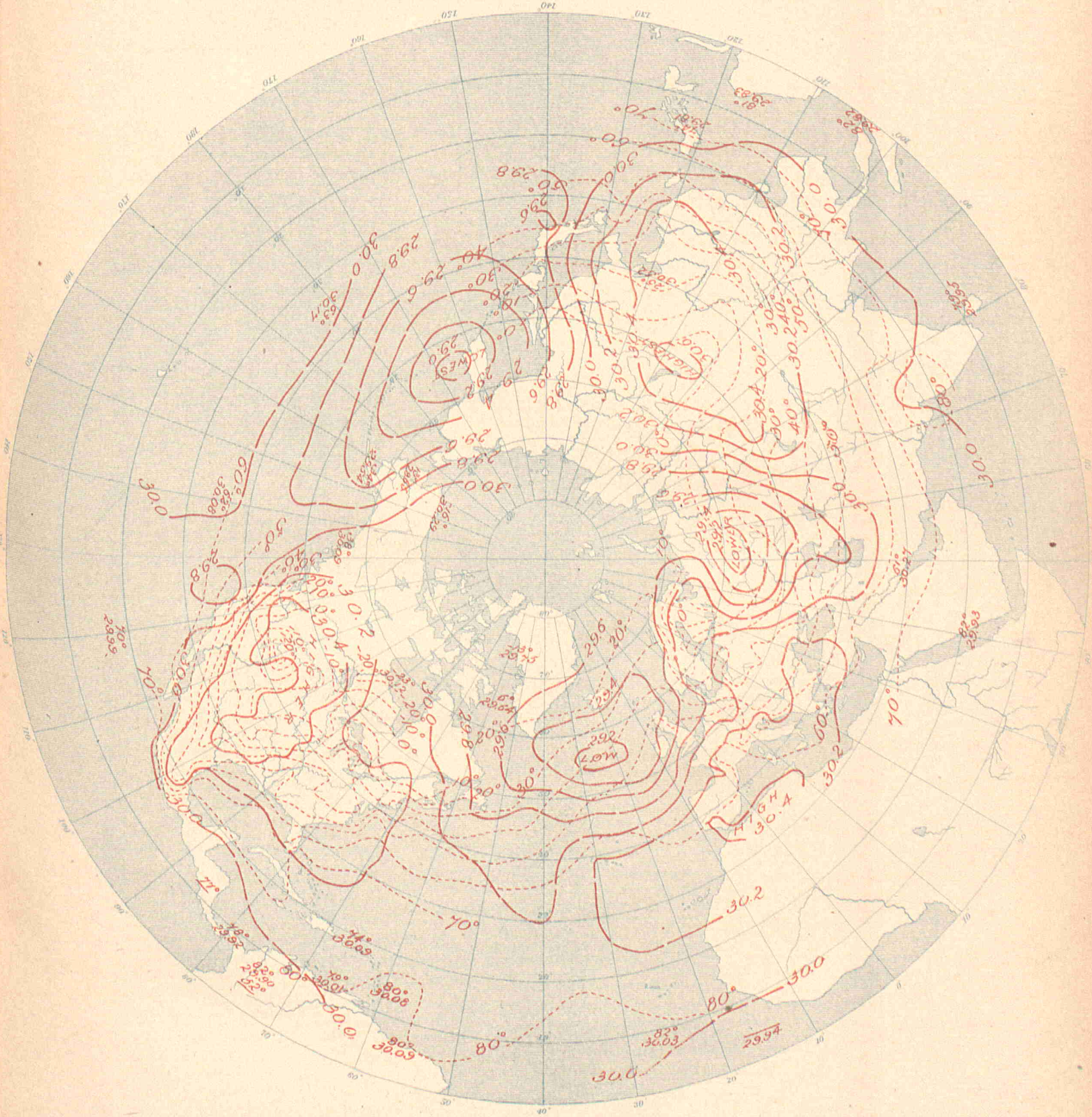
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.14	765.5	30.16	766.1	67.0	19.4	76	ne.	11	4.9	.....	.....	10 s	.....	sw.	0	0	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.34	770.6	30.36	771.1	30	— 1.1	88	w.	4	1.8	.....	0	1 s	.....	w.	0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.25	742.9	30.33	770.4	28	— 2.2	98	e	3	1.3	.....	.....	9 s	.....	w.	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.48	748.8	30.32	770.1	— 4	—20.0	05	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.52	749.8	30.48	774.2	8	—13.3	76	nw.	5	2.2	.....	0	0	.....	.....	0.11	2.8	clear	A. W. Browne.
Lewiston, Idaho	29.77	756.1	30.64	778.2	— 1.0	—18.3	79	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. Bell.
Little Rock, Arkansas	30.04	763.0	30.37	771.4	35	1.7	79	nw.	5	2.2	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	W. U. Simons.
Los Angeles, California	29.68	753.9	30.08	764.0	52	11.1	59	e.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.70	754.4	30.29	769.4	35	1.7	79	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.62	752.3	30.34	770.6	22	— 5.6	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.41	747.0	30.11	764.8	24.0	— 4.4	61	w.	20	8.9	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Macon, Fort, North Carolina	30.34	770.6	30.35	770.9	35.0	1.7	89	nw.	1	0.4	.....	0	2 s	.....	.....	0	0	clear	William Daly.
Madison, Wisconsin	29.22	742.2	30.31	769.9	3	—16.1	72	nw.	5	2.2	.....	5 c	0	nw.	.....	0	0	fair	C. A. Shaw.
Maginnis, Fort, Montana	.....	.....	.....	.....	— 8	—22.2	50	nw.	4	1.8	.....	0	4 s	.....	.....	0	0	fair	F. Burke.
McKavett, Fort, Texas	28.12	714.2	30.51	774.9	21	— 6.1	87	n	5	2.2	.....	.....	10 s	.....	.....	0.15	3.8	cloudy	J. E. Thatcher.
Marquette, Michigan	29.32	744.7	30.10	764.5	15	— 9.4	67	w.	15	6.7	.....	10 k	0	w.	.....	0.01	0.3	cloudy	J. Gilligan.
Memphis, Tennessee	29.99	761.7	30.35	770.9	41	5.0	83	sw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	O. T. Flannery.
Milwaukee, Wisconsin	29.48	748.8	30.28	769.1	5	—15.0	76	w.	7	3.1	.....	0	9 s	.....	.....	0	0	cloudy	W. Line
Missoula, Fort, Montana	27.04	686.8	30.50	774.7	— 8	—22.2	61	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	I. H. Young.
Mobile, Alabama	30.27	768.8	30.31	769.9	36.5	2.5	94	n.	5	2.2	.....	4 cs	0	.....	.....	0	0	fair	C. A. Read.
Montgomery, Alabama	30.08	764.0	30.32	770.1	32.2	0.1	95	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. B. McLaughlin
Moorhead, Minnesota	29.30	744.2	30.41	772.4	— 4	—20.0	100	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.19	741.4	30.25	768.3	37.0	2.8	82	w.	4	1.8	.....	.....	10 n	.....	.....	inap.	inap.	light snow	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.46	595.9	30.09	764.3	— 7.0	—21.7	100	nw.	78	34.8	.....	.....	fg.	.....	nw.	0.13	3.3	dense fog	S. W. Beall.
Nashville, Tennessee	29.70	754 4	30.30	769.6	35.0	1.7	83	n.	1	0.4	.....	10 cs	0	.....	.....	inap	inap.	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.17	766.3	30.29	769.4	25	— 3.9	64	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.26	768.6	30.30	769.6	28	— 2.2	54	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.24	768.1	30.30	769.6	45.8	7 7	75	ne.	6	2.7	.....	7 c	3 s	w.	s.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	30.20	767.1	30.26	768.6	30.9	— 0.6	85	w.	12	5.4	.....	4 c	0	w.	.....	0	0	fair	W. McGillivray.
New York, New York	30.12	765 0	30.31	769.9	31	— 0.6	83	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.32	770 1	30.35	770.9	31	— 0.6	78	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.32	693.9	30.44	773.2	— 4.4	—20.2	68	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.23	767.8	30.27	768.8	19.0	— 7.2	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	29.18	741.2	30.45	773.4	4.4	—15.3	71	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Oswego, New York	29.91	759.7	30.20	768.6	23.0	— 5.0	01	se.	7	3.1	.....	.....	10 s	.....	sw.	0.05	1.3	cloudy	J. G. Linsley.
Palestine, Texas	29.89	759.2	30.47	773.9	26.5	— 3.1	84	nw.	8	3.6	.....	.....	10 n	.....	nw.	0.46	11.7	light rain	L. M. Pindell.
Pensacola, Florida	30.30	769.6	30.33	770.4	40.0	4.4	82	ne.	4	1.8	.....	4 cs	0	.....	.....	0	0	fair	M. McGauran.
Philadelphia, Pa	30.24	768.1	30.35	770.9	35	1.7	64	nw.	6	2.7	.....	0	5 ks	.....	nw.	0	0	fair	T. T. Townsend.
Pike's Peak, Colorado	17.51	444.7	30.21	767.3	—14	—10.0	67	ne.	15	6.7	.....	0	0	.....	.....	0	0	clear	H. Hall.
Ploche, Nevada	24.11	612.4	30.31	769.9	9.8	—12.3	80	n.	6	2.7	.....	10 c	0	.....	.....	0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.48	748.8	30.33	770.4	29.0	— 1.7	88	sw.	1	0.4	.....	.....	10 s	.....	w.	0.03	0.8	cloudy	W. A. Reid.
Poplar River, Montana	28.17	715.5	30.52	775.2	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.20	768.0	30.27	768.8	52.6	11.4	92	e.	8	3.6	.....	7 cs	0	sw.	.....	0	0	fair	H. B. Boyer.
Port Huron, Michigan	29.56	750.8	30.29	769.4	17.2	— 8.2	87	s.	8	3.6	.....	10 cs	0	w.	.....	0.05	1.3	cloudy	W. O. Bailey.
Portland, Maine	30.17	766.3	30.22	767.6	25.0	— 3.9	73	n.	3	1.3	.....	0	1 s	.....	.....	0	0	clear	W. W. Elchelberger.
Portland, Oregon	30.18	766.6	30.26	768.6	28.8	— 1.8	73	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. S. Coburn.
Prescott, Arizona	24.80	629.9	30.18	766 6	24	— 4.4	76	calm	0	0	.....	.....	8 s	.....	sw.	0	0	cloudy	W. H. Clendenon.
Provincetown, Mass	30.19	766.8	30.22	767.6	32.5	0.3	68	nw.	7	3.1	.....	2 cs	3 s	nw.	nw.	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.20	767.1	30.21	767.3	53.5	11.9	93	ne.	14	6.3	.....	7 cs	0	.....	.....	0	0	fair	W. J. Evans.
Red Bluff, California	29.66	753.4	30.03	762.7	41	5.0	24	n.	0	4.5	.....	.....	10 s	.....	w.	0	0	cloudy	J. R. Williams.
Rochester, New York	29.56	750.8	30.27	768.8	23	— 5.0	88	sw.	8	3.0	.....	.....	10 k	.....	sw.	0.01	0.3	cloudy	E. W. McGann
Roseburg, Oregon	29.56	750.8	30.13	765.3	21	— 6.1	84	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. J. Naury.
Sacramento, California	29.85	758 2	29.93	760.2	34.9	1.6	89	n.	10	4.5	.....	.....	10 n	.....	nw.	1.05	26.7	light rain	J. A. Barwick.
St. Louis, Missouri	29.73	755.1	30.37	771.4	21.0	— 6.1	91	nw.	8	3.6	.....	.....	10 n	.....	.....	0.07	1.8	light snow	J. H. Weber.
St. Michael, Fort, Alaska	29.01	752.1	29.65	753.1	13	—10.0	100	ne.	.....	.....	2	.....	10 s	.....	.....	0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.34	745 2	30.29	769.4	— 3.0	—19.4	65	sw.	10	4.5	.....	1 cs	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.40	748.3	30.44	773.2	—10	—23.3	88	nw.	4	1.8	.....	9 cs	0	.....	.....	0	0	cloudy	C. B Dilley.
Salt Lake City, Utah	25.91	658.1	30.48	774.2	9	—12.8	60	calm	0	0	.....	5 cs	0	.....	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.09	754 1	30.42	772.7	30.5	— 0.8	88	n.	11	4.9	.....	.....	10 s	.....	n.	0.39	9.9	cloudy	T. J. Kenan.
San Diego, California	29.97	761.2	30.04	763.0	48.0	9.2	62	e.	3	1.3	.....	7 k	3 s	sw.	sw.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.88	751.3	30.30	769.6	28	— 2.2	80	w.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.28	769 1	30.31	769.9	32.0	0.0	78	nw.	13	5.8	.....	1 k	0	nw.	.....	0	0	clear	B. A. Blundon.
San Francisco, California	29.72	754.9	29.79	756.7	41	5.0	87	e.	13	5.8	.....	.....	10 n	.....	se	1.04	26.4	light rain	N. Gorom.
Santa Fé, New Mexico	23.24	590.3	30.28	769.1	9	—12.8	48	n.	18	8.0	.....	2 k	0	nw.	.....	0.01	0.3	clear	H. U. Jones.
Savannah, Georgia	30.26	768.6	30.30	771.1	39	3.9	82	n.	4	1.8	.....	2 c	fg.	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.54	674.1	30.40	772.1	— 6	—21.1	64	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.14	765.5	30.39	771.9	36	2.2	89	nw.	8	3.6	.....	.....	10 s	.....	nw.	0.25	6.3	threatening	E. N. Meekins.
Sill, Fort, Indian Territory	29.23	742.4	30.56	776.2	9.5	—12.5	71	nw.	2	0.9	.....	0	0	.....	.....	0.04	1.0	clear	W. M. Mattingly.
Silver City, New Mexico	24.38	619.2	30.24	768.1	19.5	— 6.9	86	nw.	5	2.2	.....	0	1 s	.....	.....	0	0	clear	N. D. Lane.
Sitka, Alaska	30.02	762.5	30.09	764.3	37.6	3.1	82	e.	4	1.8	.....	.....	10 n	.....	e.	0 12	3.0	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.97	761.2	30.47	773.9	19.0	— 7.2	84	w.	8	3.6	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	J. B. Campbell.
Smithville, North Carolina	30.32	770.1	30.30	771.1	34	1.1	78	n.	3	1.3	.....	4 cs	0	w.	.....	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.38	720.8	30.52	775.2	— 1	—18.3	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Springfield, Illinois	29.01	752.1	30.34	770.6	22.5	— 5.3	88	n.	5	2.2	.....	.....	10 n	.....	.....	0.37	9.4	light snow	T. B. Jennings.
Springfield, Missouri	28.89	733.8	30.41	772 4	14.5	— 9.7	82	w.	12	5.4	.....	.....	10 ks	.....	w.	0.06	1.5	cloudy	J. H. Bryce.
Starkville, Miss	29.86	758.4	30.36	771.1	40	4.4	79	w.	3	1.3	.....	.....	10 n	.....	.....	0.02	0.5	light rain	C. Dill.
Stevenson, Fort, Dakota	28.43	722.1	30.49	774.4	2	—16.7	100	w.	11	4.9	.....	9 cs	0	w.	.....	0	0	cloudy	W. Burrows.
Stockton, Fort, Texas	27.28	092 9	30.42	772.7	17	— 8.3	83	n.	6	2.7	.....	0	0	.....	.....	0.03	0.8	clear	A. J. Warren.
Thatcher's Island, Mass	30.20	767.1	30.26	768.6	29.0	— 1.7	77	nw.	0	4.0	.....	5 k	0	w.	.....	0	0	fair	G. Liebmann.
Thomas, Camp, Arizona	27.39	695.7	30.22	767.6	25.5	— 3.6	90	se.	.....	.....	1	1 cs	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.56	750.8	30.30	769.6	29	— 1.7	07	w.	5	2.2	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	A. Buell.
Tucson, Arizona	27.66	702.6	30.16	766.1	32	0.0	81	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.19	766.8	30.58	776.7	5	—15.0	87	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	31.3	— 0.4	31	w.	.....	.....	1	.....	10 s	.....	sw.	0	0	cloudy	D. Brooks.
Vicksburg, Mississippi	30.11	764.8	30.38	771.6	42.3	5.7	76	n.	7	3.1	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	James Kenealy.
Visalia, California	29.45	748 0	29.84	757.9	45.4	7.4	80	e.	8	3.6	.....	.....	10 s	.....	sw.	0.01	0.3	cloudy	O. D. Stewart.
Washakie, Fort, Wyoming	24.00	024.8	30.39	771.9	—20.5	—32.5	.....	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.25	768.3	30.37	771.4	27.0	— 2.8	82	calm	0	0	.....	0	4s;fg	.....	.....	0	0	fair	B. M. Pursell.
West Las Animas, Colorado	26.29	667.8	30.43	772.9	— 7.5	—21.9	91	nw.	0	2.7	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.68	753.9	30.31	769.9	32	0.0	83	w.	0	2.7	.....	.....	10 ks	.....	w.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.29	769.4	30.35	770.9	35	1.7	79	s.	1	0.4	.....	3 c	7 s	.....	w.	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.74	653.8	30.28	769.1	3	—16.1	76	ne.	15	6.7	.....	0	8 s	.....	sw.	0	0	cloudy	J. Grover.
Yankton, Dakota	29.00	736 6	30.42	772.7	— 7	—21.7	61	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Attfeld.
Yuma, Arizona	29.90	701.0	30.11	764.8	44.5	6.9	48	n.	5	2.2	.....	2 cs	0	sw.	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8	.....	.....	52.0	11.1	73	s.	3	1.3	.....	.....	4ks;s	.....	nw.	0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	70	21.1	84	n.	2	0.9	.....	1 c	0	.....	.....	0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.09	764.3	30.09	764.3	80	26.7	78	se.	.....	.....	2	5 k	4 s	e.	.....	0.040	1.0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.35	745.5	29.90	759.4	82	27.8	90	calm	.....	.....	0	5 c	4 ks	calm	s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	77.2	25.1	94	ne.	.....	.....	2	0	5 ks	.....	ne.	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.48	748.8	29.54	750.3	34	1.1	88	e.	.....	.....	5	.....	10 n	.....	.....	0.59	15.0	snowing	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Wallace.
York Factory B. A.	30.05	763.3	30.12	765.0	—23.0	—30.6	.....	nw.	15	6.7	.....	0	0	.....	.....	0.03	0.8	hazy	Forbes me & Wood

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Amethyst, N. 36° 45′, W. 56° 12′ †	29.95	760.7	71	21.7	85	w.			2		6	nw.						misty
H. M. S. Audacious, Labuan Island, Borneo, Oceanica	29.73	755.1	81	27.2	78	sw.			4		6	sw.						squally.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.98	761.5				var.			1–2		2							blue sky.
H. M. S. Carysfort, N. 29° 56′, E. 32° 33′	30.15	765.8	67	19.4	79	nne.			2		2	nne.						blue sky.
H. M. S. Champion, Singapore, Malay Peninsula	29.82	757.4	82	27.8	87	nnw.			3		10							overcast.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.56	776.2	27	— 2.8		nw.			2		0							blue sky.
H. M. S. Comus, N. 42° 15′, W. 125° 40′	29.88	758.9	48.5	9.2	81	ene.			3–4		1	wnw.				3	nnw.	blue sky.
H. M. S. Constance, N. 28° 17′, W. 20° 17′	30.30	769.6	70	21.1		s.			1		1					2	ssw.	blue sky.
H. M. S Curacoa, Yokohama, Japan	29.48	748.8	45.5	7.5	69	n.			1–2		0							blue sky.
H. M. S. Diamond, Sydney, N. S. W	29.70	754.4	68	20.0	79	calm			0		2							raining.
H. M. Dock-Yard, Bermuda, W. I	30.14	765.5	63	17.2	86	nnw.			1–2		4	nnw.						d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.95	760.7	79	26.1	?	ne.			1		8							misty.
H. M. S. Flying Fish, Nagasaki, Japan	30.14	765.5	40	4.4	73	nnw.			2–5		9							squally.
H. M. S. Gannet, S. 36° 48′, W. 73° 35′	29.86	758.4	55.5	13.1	97	ne.			1		10					4	sw.	foggy.
H. M. S. Iron Duke, N. 6° 56′, E. 79° 59′	29.83	757.7	77	25.0	95	n.			1		10					2	n.	d. clouds.
H. M. S. Lark, S. 34° 30′, E. 157° 15′	29.97	761.2	67.3	19.6	92	n.			2		9					4	n.	d. clouds.
H. M. S. Magpie, N. 34° 41′ E. 135° 12′	29.90	759.4	40.9	4.9	52	nw.			2–5		0					2	var.	squally.
H. M. S. Monarch, Port Said, Egypt	30.11	764.8	67	19.4	90	wnw.			1		9							d. clouds.
H. M. S. Mutine, S. 7° 06′, W. 96° 36′	29.95	760.7	71.5	21.9		se.			4		1					1	se.	blue sky.
H. M. S. Rocket, Valparaiso, Chili	29.96	761.0	62	16.7	94	calm			0		3							d. clouds.
H. M. S. Serapis, N. 17° 40′, E. 40° 11′	29.93	760.2	82	27.8	74	se.			3		6					2	se.	d. clouds.
H. M. S. Superb, N. 36° 45′, E. 35° 45′ *	30.13	765.3	62	16.7	66	n.			2		8	ene.						overcast.
H. M. S. Swiftsure, Callao Bay, Peru	29.96	761.0	67	19.4	94	calm			0		0					3	s.	blue sky.
H. M. S. Sylvia, Cape Providence, Patagonia	29.73	755.1	50.2	10.1	89	nw.			3–5		10							squally.
H. M. S. Tourmaline, Bombay, India	29.92	760.0				sw.			1		1	sw.						blue sky
H. M. S. Woodlark, Bassorah, Turkey in Asia	30.17	766.3	60.5	15.8	87	nw.			1		5	nnw.						d. clouds.
H. M. S. Zephyr, N. 37° 33′, E. 121° 25	30.47	773.9	24	— 4.4		calm			0		0							blue sky.
PORTUGUESE NAVAL.																		
Tamega, Macao, China	30.28	769.2	55.4	13.0	55	n.			7		0					sm'h		blue sky
SWEDISH NAVAL.																		
Vanadis, N. 33° 13′, E. 27° 41′	30.15	765.9	65.5	18.6	75	nw.			3		3							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla*	30.35	770.9	45	7.2	84	ne.	3	1.3			8		se.	0	0			fair.
Navy Yard, Portsmouth, N. H*	30.24	768.1	24	— 4.4	?	wnw.	7	3.1			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.56	750.8	42	5.6	83	n.			2		8		w.	0	0			hazy.
Adams, Sitka, Alaska†	30.10	764.5	38	3.3	71	wsw.			1		10							light rain.
Alaska, Mare Island, Cal	29.75	755.6	38	3.3	90	e.			7		10		e.	0.9	23.			raining.
Alliance, St. John's Antigua, W. I	30.11	764.8	77	25.0	95	se.			1		5			light	light	sm'h		fair.
Ashuelot, Shanghai, China	30.54	775.7	28	— 2.2	77	nw.			2		0							clear.
Brooklyn, Montevideo, Uruguay	29.87	758.7	74	23.3	76	nw.	11	4.9			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y	30.38	771.6	32	0.0	89	nw.	4	1.8			0			0	0			clear.
Enterprise, Lynn Haven Bay, Va*	30.29	769.4	42	5.6	83	wnw.			2		5		calm			sm'h		fair.
Essex, Callao, Peru	29.93	760.2	65	18.3	94	sse.			1		10							overcast.
Franklin, Norfolk, Va	30.34	770.6	33	0.6	?	ssw.	2	0.9			2		calm	0	0			fair.
Galena, Montevideo, Uruguay*	29.88	758.9	73	22.8	75	wnw.			3		2					sm'h		clear.
Hartford, Valparaiso Chili*	29.88	758.9	63	17.2	94	wsw.			1		10					sm'h		cloudy.
Independence, Mare Island, Cal	29.94	760.5	35	1.7	79	e.			7		10			0.63	16.0			snowing.
Iroquois, Callao, Peru	29.96	761.0	65	18.3	94	se.			1		10							overcast
Jamestown, Boston, Mass	30.18	766.6	29	— 1.7	78	nw.			1		10							misty.
Juniata, Horta, Azores Islands*	30.23	767.8	66	18.9	68	wsw.			2		1		w.	slt	slt	sm'h		clear.
Kearsarge, St. Lucia, W. I	30.10	764.5	79	26.1	90	e.			3		5		e.					fair.
Lackawanna, S. 3° 21′ W. 110° 46′ *	29.85	758.2	74	23.3	85	sse.			2		0					sm'h	se.	clear.
Lancaster, Genoa, Italy	30.21	767.3	57	13.9	100	e.			2		10		calm					light rain.
Michigan, Erie, Pa	30.00	762.0	28	— 2.2	77	sw.			3		10		n.					snowing.
Minnesota, New York, N. Y	30.31	769.9	31	— 0.6	79	nnw.	3	1.3			0							misty.
Monocacy, Nagasaki, Japan	30.10	764.5	40	4.4	73	nw.			3		10		calm					cloudy.
New Hampshire, Newport, R. I	30.21	767.3	32	0.0	60	wnw.			4		5		wnw.			sm'h		fair.
Nipsic, Lisbon, Portugal	30.37	771.4	04	17.8	73	ne.			1		2							clear.
Onward, Callao, Peru*†	30.04	763.0	65	18.3	94	sse.			2		10		n.					cloudy.
Palos, Tientsin, China*	30.47	773.9	21	— 6.1	100	nw.			1		0							clear.
Pensacola, Panama, U. S. C*	29.82	757.4	78	25.6	95	nw.	5	2.2			10		n.	0	0	sm'h		cloudy.
Powhatan, Boston, Mass	30.22	767.6	30	— 1.1	89	nw.			1		10							cloudy.
Quinnebaug, Genoa, Italy	30.25	768.3	57	13.9	87	calm			0		10		calm					cloudy.
Ranger, N. 19° 52′, W. 107° 23′ *	29.95	760.7	72	22.2	90	n.			2		2		calm	0	0	sm'h		clear.
Richmond, N. 22° 15′, E. 114° 15′ *	30.17	766.3	55	12.8	34	ne.			0		0			0	0			clear.
Saratoga, New York, N. Y	30.34	770.6	30	— 1.1	89	n.			1		1		n.	0	0			clear.
St. Louis, League Island, Pa	30.33	770.4	29	— 1.7	89	nw.			1		2		nw.	0	0			clear.
Tennessee, Fort de France, Martinique, W. I*	30.08	764.0	81	27.2	82	ene.	6	2.7			2			0	0			fair.
Vandalia, St. Thomas, W. I*	30.14	765.5	82	27.8	82	ene.			2		2		calm					fair.
Wabash, Boston, Mass	30.23	767.8	28	— 2.2	77	n.	4	1.8			8		nw.	0	0			cloudy.
Wachusetts, Mare Island, Cal	29.91	759.7	38	3.3	100	e.			6		10		calm					squally.
Wyandotte, Washington, D. C	30.24	768.1	45	7.2	84	sw.			2		5		w.	0	0			fair.
Yantic, St. Vincent, W. I	30.08	764.0	77	25.0	90	ne.			1–4		5							squally.
MERCHANT MARINE.																		
S. S. Grecian, Glasglow, Scotland						var.			2		10		var.	3 h'r	3 h'r			misty.
S. S. Nova Scotian, off Chebucto, N. S	29.88	758.9	25	— 3.9		wnw.			4		10		wnw.			sm'h		cloudy.
S. S. Polynesian, N. 53° 56′, W. 28° 19′ *	29.04	737.6	43	6.1		nw.			9		8		nw.	20 h'r	20 h'r	r'gh	var.	cloudy.
S. S. British Crown, Queenstown, Ireland†	29.48	748.8	52	11.1		wsw.			6		8		wsw.	20 h'r	20 h'r	sm'h		raining.
S. S. British Prince, N. 44° 03, W. 59° 03′ †	29.91	759.7	32	0.0		nw.			6		10		nw.	2 h'r	2 h'r	mod.	nw.	hy. snow.
S. S. Indiana, N. 47° 40′, W. 45° 38′			37	2.8	81	wnw.			4		2		nw.			mod.	nw.	fine.
S. S. Lord Gough, Philadelphia, Pa	30.36	771.1	35	1.7		nw.			3		5							fair.
S. S. Ohio, N. 50° 38′, W. 28° 27′	29.29	744.0	44	6.7	100	w.			6		2		w.			r'gh	w.	clear.
S. S. Pennsylvania, Liverpool, Eng†	29.63	752.6	54	12.2	93	sse.			3		10		wsw.					rainy.
S. S. Anchoria, N. 47° 39′, W. 44° 02′ †	29.85	758.2				wsw.			2		17		w.	0	0	slt	w.	cloudy.?
S. S. Bolivia, New York, N. Y	30.34	770.6	37	2.8	81	nnw.			3		0			0	0			
S. S. Dorian, Naples, Italy*	30.15	765.8				var.								0	0			clear.
S. S. Utopia, N. 32° 37′, W. 40° 04 †	29.93	760.2				s.			9		10		s.	4 h'r	4 h'r	high	sw.	heavy rain.
S. S. Ailsa, N. 25° 00′, W. 74° 09′ †	30.22	767.6	75	23.9	77	ene.			5		57		ene.	0	0	mod.	ene.	cloudy.?
S. S. Antillas, St. John, Puerto Rico, W. I†	30.16	766.1				ne.			1		1		ne.	0	0			fine.
S. S. Ambrose, Para, Brazil†	30.08	764.0	82	27.8		calm			0					2 h'r	2 h'r			fine.
S. S. Carroll, Halifax, N. S* †	30.10	764.5	28	— 2.2		n.			4		9		n.	snow	snow			hy. snow.
S. S. Landaff City, N. 43° 50′, W. 40° 30′ *†	29.85	758.2				n.			4		8		se.	d	0	hy'y	nnw.	fine.
S. S. Auckland, S. 50° 45′, W. 125° 26′	29.61	752.1	50	10.0	86	wsw.			3		9							overcast.
S. S. Caldew, S. 14° 10′, E. 92° 20′	29.99	761.7	78	25.6	73	se.			5		8							d. clouds.
S. S. City of Agra, S. 53° 03′, W. 120° 00′	29.42	747.3	44	6.7	92	w.			4		10							overcast.
Bk. Commewyne, N. 46° 35′ W. 25° 11′	29.72	754.9	52.7	11.5	73	w.			5		6							d. clouds.
S. S. Gordon Castle, N. 26° 35′, E. 34° 42′	30.05	763.3	75.5	24.2	94	nnw.			3		1							blue sky.
St. Kilda, N. 10° 20′ W. 60° 00′	30.18	766.6	79.7	26.5	76	var.			4		1							blue sky.
S. S. Scotia, N. 50° 47′ E. 0° 47′	29.88	758.9	52.4	11.3	86	sw.			6		10							misty.
S. S. Lake Huron, N. 41° 33′, W. 61° 22′ *	29.90	759.4	37	2.8		nw.			4		1		nw.	0	0	sm'h		fine.
S. S. Bothnia, N. 46° 14′, W. 38° 38′	29.83	757.7	46	7.8	92	wnw.			4		9		nw.	sh'rs	sh'rs	mod.	nw.	showery.
S. S. Gallia, N. 40° 41′, W. 67° 03′	30.28	769.1	44	6.7	68	nw.			5		2		nw.	0	0	sm'h		fair.
S. S. Pavonia, N. 51° 16′ W. 13° 30′	29.18	741.2	55	12.8	87	wsw.			7		9		wsw.	8 h'r	8 h'r	mod.	wsw.	threatening.
S. S. Colina, St. John's, N. F†	29.66	751.8				w.			1		6		wnw.			sm'h		snowing.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																	
S. S. Rhiwindda, N. 44° –′, W. 56° 20′ *†	29.85	758.2				nne.			6		8		nne.	0	0	r'gh	wnw.	
S. S. Abyssinia, Queenstown, Ireland	29.45	748.0	54	12.2	93	ssw.			7		10		ssw.	20 h'r	20 h'r	rg'h	ssw.	rain & fog.
S. S. Bohemia, Hamburg, Germany						ese.			4		8		nw.	0	0			
S. S. Silesia, New York, N. Y†	30.34	770.6	29.5	—1.4		w.			2		6		w.	0	0			fair.
S. S. Vandalia, N. 46° 40′, W. 36° 00′	29.84	757.9	45.0	7.2		wnw.			7		2		wnw.			cross	nw.	fair.
S. S. Wieland, Portland, Eng	29.86	758.4				sw.			6		10		sw.	3 h'r	3 h'r	high	sw.	hazy.
S. S. Mentmore, N. 50° 49′, W. 19° 24′ *	29.41	747.0				w.			7		2		w.	0	0	high	w.	clear.
S. S. Archimedes, N. 15° 01′, W. 26° 02′	30.03	762.7				ne.			5					0	0	light	var.	clear.
S. S. Hevelius, Liverpool, Eng †.	29.76	755.9	48	8.9		ssw.			6		10		sw.	12 h'r	12 h'r			raining.
S. S. Sirius, S. 19° 20′, W. 38° 40′ *	29.99	761.7				s.			3		9		s.in.	0	0	mod.	ssw.	cloudy.
S. S. Bulgarian, N. 44° 27′, W. 52° 52′ *	29.95	760.7				w.			6		10		w.	1 h'r	1 h'r	mod.	w.	cloudy.
S. S. Virginian, N. 47° 55′ W. 37° 32′ *	29.73	755.1	46	7.8		wnw.			6		8		nnw.	0	0	r'gh	wnw.	cloudy.
S. S. Colorado, Galveston, Texas†	30.30	769.6	45	7.2		nne.			6		10		nne.	light	light			cloudy.
S. S. Rio Grande, Nassau, Bahama†	30.19	766.8	75	23.9		ene.			3		10		ne.	0	0	long	ne.	gloomy.
S. S. San Marcos, Galveston, Texas	30.31	769.9	47	8.3		n.			5				nne.	0	0			cloudy.
S. S. Archimede, Marseilles, France†	30.24	768.1	66	18.9	64	nw.			2		2		nw.	0	0			clear.
S. S. Hermod, N. 49° 40′, W. 16° 30′†	29.47	748.5	54	12.2		w.			8		6		w.	2 h'r	2 h'r	light	wsw.	threatening.
S. S. Allegheny, Boston, Mass †.	30.18	766.6	30	— 1.1		n.			2		4		w.	0	0			fair.
S. S. Glenfyne, N. 4° 12′, W. 48° 24′						ene.			5		5		ene.	0	0	r'gh	ene.	fair.
S. S. Brooklyn, N. 43° 37′, W. 70° 13′*	30.09	764.3	30	—1.1		nw.			2				nw.	0	0			clear.
S. S. Chalmette, N. 33° 44′, W. 77° 18′†	30.31	769.9	50	10.0		n.			2		2		n.	0	0	long	ne.	clear.
S. S. Lone Star, N. 27° 35′, W. 87° 35′ †	30.17	766.3	64	17.8		e.			3		10		e.	0	0	mod.	e.	threatening.
S. S. New York, N. 24° 32′. W. 81° 22′ †.	30.23	767.8	69	20.6		nne.			4		7		n.	0	0	sm'h		cloudy.
S. S. Denmark, New York, N. Y †	30.29	769.4	31	—0.6		wnw.			2		0			0	0			clear.
S. S. England, N. 40° 58′, W. 61° 30′	30.09	764.3				wnw.			6		10		wnw.	sh'rs	sh'rs	mod.	w.	cloudy.
S. S. Erin, Liverpool, Eng			41	5.0		wsw.			6		6		wsw.	2 h'r	2 h'r			hazy
S. S. Helvetia, New York, N. Y.	30.27	768.8	41	5.0		n.			1		2		n.	0	0			clear.
S. S. The Queen, N. 42° 24′ W. 62° 19′	30.02	762.5	34	1.1		nw.			5		10			0	0	mod.		overcast.
S. S. City of Alexandria, Vera Cruz, Mexico †	30.00	764.3	70	21.1	90	nw.			3		4		n.	3 h'r	3 h'r	small	n.	clear.
S. S. City of Washington, N. 26° 29′ W. 80° 01′ †	30.23	767.8	71	21.7		e.			4		8		ene.	0	0	sm'h		fine.
S. S. Alps, N. 13° 09′, W. 77° 04′	30.03	762.7	83	28.3		nne.			5								ne.	clear.
S. S. Alene, N. 33° 51′ W. 74° 02′†	30.18	766.6	56	13.3		var.			3								e.	clear.
S. S. Braunschweig, S. 17° 17′, W. 37° 07′	29.99	761.7	86.0	26.7	87	w.			4		10		nw.	1 h'r	1 h'r	mod.	nw.	rainy.
S. S. Donau, N. 46° 19′, W. 37° 44′	29.86	758.4				wsw.			4–5		8		wsw.	rain	rain	r'gh	wnw.	cloudy.
S. S. Neckar, N. 51° 55′, E. 2° 25′	29.81	757.2	52.5	11.4	93	sw.			3		10			0	0	sm'h	sw.	hazy.
S. S. Saller, Browershaven, Netherlands	29.85	758.2	40	4.4		ese.			4		10		ese.	3 h'r	3 h'r			drizzling.
S. S. Strassburg, S. 34° 23′. W. 53° 01′	29.99	761.7	72.0	22.2	90	var.			1–3		3		n.	0	0	sm'h	n.	clear.
S. S. Werra, N. 42° 39′, W. 38° 31′	30.02	762 5	37.4	3.0		wnw.			4		10		nw.	snow	snow	mod.	nw.	cloudy.
S. S. Belgic, N. 36° 10′, W. 139° 46′ *†	30.08	764.0	62	16.7	77	w.			2		8		w.	0	0	mod.	nw.	cloudy.
S. S. Gaelic, N. 34° 48′, W. 179° 13′	30.17	766.3	63	17.2	94	wsw.			4		5		w.	0	0		wnw.	d. clouds.
S. S. Oceanic, N. 39° 00′, E. 147° 30′ *	29.67	753.6	38	3.3	90	ne.			4		5		ne.			slt	wsw.	snowing.
S. S. City of Augusta, N. 33° 22′, W. 78° 07′ †	30.37	771.4				wsw.			3		4			0	0	sm'h		clear.
S. S. Mississippi, Seattle, Wash. Ter*†	30.32	770.1	30	—1.1		se.			1		4		s.					light fog.
S. S. Willamette, Seattle, Wash. Ter	30.32	770.1	29	—1.7	100	ene.			1		0			0	0			clear.
S. S. Oregon, N. 38° 58′, W. 124° 06′ †	29.75	755.6	46	7.8	69	ene.			3		5		ene.			sm'h		squally.
S. S. Ancon, N. 37° 39′, W. 122° 34′ †	29.62	752.3	45	7.2	84	ne.			6		10		se.			sm'h		rainy.
S. S. City of Chester, San Francisco, Cal*†	29.78	756.4	41	5.0	82	e.			4		10							light rain.
S. S. Dakota, N. 41° 41′, W. 124° 43′*†	29.89	759.2	46	7.8	69	se.			3		0			0	0	sm'h		clear.
S. S. G. W. Elder, N. 43° 35′, W. 124° 42′†	30.08	764.0	40	4.4	91	ene.			3					0	0	long	w.	clear.
S. S. Orizaba, N. 33° 43′, W. 118° 15′*†	30.00	762 0	58	14.4	70	e.			8				se.	0	0	long	sw.	cloudy.
S. S. State of California, N. 46° 10′, W. 124° 05′ †	30.20	767.1	37	2.8	81	ene.			4		0			0	0	sm'h	w.	clear.
S. S. Victoria, N. 44° 08′, W. 124° 40′ †*	30.22	767.6	40	4.4		ene.			4		2		e.			high	ene.	fair.
S. S. City of New York, S. 36° 12′, E. 175° 10′†	30.20	767.1	71	21.7	80	e.			2		0			0	0	mod.	ne.	clear.
S. S. City of Sydney, S. 4° 38′, W. 167° 01′†	29.86	758.4	81	27.2	87	ne.			3		8		ne.	0	0	mod.	ne.	cloudy.
S. S. City of Tokei, N. 29° 54′, E. 127° 48′ †	30.18	766.6	61	16.1	82	nw.			8		8?		nw.	light	light	mod.	nw.	clear.?
S. S. Colima, N. 8° 05′ W. 83° 34′ †	29.88	758.9	81	27.2	96	wnw.			5		3		wnw.	0	0	mod.	wnw.	clear.
S. S. Grenada, N. 33° 12′, W. 120° 30′†	29.82	757.4	60	15.6	88	se.			6		8		sse.	2 h'r	2 h'r	large	se.	clear.
S. S. San José, N. 7° 20′ W. 82° 20′*	29.88	758.9				se.			2	5 c	0	sse.		0	0	mod.	sse.	
S. S. Zealandia, Sydney, N. S. W*	29.93	760.2	70	21.1	80	calm			0		0							fine.
S. S. Muriel, N. 35° 17′ W. 71° 15′ *	30.22	767.6	61	16.1		n.			2		2			0	0	mod.	ne.	fair.
S. S. Valencia, La Guayra, Venezuela, S.A.†	30.01	762.2	79	26.1	86	calm			0		2		ese.	0	0	mod.	ne.	fine.
S. S. Belgenland, N. 47° 48′, W. 25° 35′†	29.69	754.1	55	12.8	80	w.			8		7		w.	sh'rs	sh'rs	h'vy	wnw.	squally.
S. S. Nederland, N. 47° 48′ W. 47° 19′			28	—2.2		wsw.			5		10		w.	snow	snow	mod.	w.	cloudy.
S. S. Pennland, Antwerp, Belgium	29.95	760.7	54	12.2	100	sw.			5		10		wsw.	20 h'r	20 h'r			overcast.
S. S. Rhyuland, N. 49° 56′, W. 9° 00′ ..	29.64	752.8	49	9.4	78	wsw.			7		6		w.	18 h'r	18 h'r	high	w.	squally.
S. S. Switzerland, N. 41° 32′, W. 63° 07′†	30.07	763.8				wnw.			4		10		nw.	0	0	mod.	wnw.	cloudy.
S. S. Waesland, Jersey City, N. J	30.32	770.1	35	1.7		nw.			4		1		nw.	0	0			clear.
S. S. Maas, New York, N. Y	30.33	770.4	31.8	— 0.1		wnw.			3					0	0			clear.
S. S. Schiedam, N. 50° 03′, W. 4° 16′	29.80	756.9	59.9	15.5	91	sw.			5		10		sw.	12 h'r	12 h'r	long	sw.	foggy.
S. S. W. A. Scholten, N. 48° 54′, W. 29° 48′	29.68	753.9	47.0	8.3	81	w.			8		6		w.	16 h'r	16 h'r	high	w.	stormy.
S. S. State of Georgia, N. 45° 23′, W 50° 13′†	29.83	757.7	34	1.1		sw.			3		10			snow	snow	sm'h		overcast.
S. S. Iowa, N. 42° 59′, W. 63° 32′ *†	30.11	764.8	32	0.0		wnw.			5		9		wnw.	snow	snow	mod.	wnw.	cloudy.
S. S. Baltic, N. 41° 14′ W. 60° 24′ *	30.02	762.5	38	3.3	90	nw.			4		9		nw.	snow	snow	mod.	nw.	snowing.
S. S. Romano, Portland, Eng *†	29.83	757.7	52	11.1		wsw.			5		10			4 h'r	4 h'r	mod.	w.	showery.
S. S. Salerno, N. 49° 49′, W. 32° 15′	29.54	750.3	43	6.1		w.			6		7		w.	2 h'r	2 h'r	h'vy	w.	raining.
S. S. Catherine Whiting, Philadelphia, Pa†	30.35	770.9				nw.			1					0	0			
S. S. Norman, N. 39° 18′, W. 75° 04′†	30.21	767.3				calm			0		0			0	0			clear.
S. S. Saxon, Philadelphia, Pa†	30.31	769.9	38	3.3		nw.			2		3			0	0			fine.
MISCELLANEOUS.																		
Bk. Adelaide, N 18° 47′, W. 36° 39′ *†	30.23	767.8	78	25.6		e.			4		5		ese.	0	0	long	n.	fair.
Bk. Alpha, N. 17° 00′ W. 36° 30′ *†	30.12	765.0	80	26.7		ene.			5		2		ene.	0	0	long	nne.	clear.
Schr. Anna A. Holton, N. 22° 53′, W. 96° 54′†	30.11	764.8	70	21.1		nnw.			8		10		nnw.	8 h'r	8 h'r	r'gh	nw.	cloudy.
Bk. Anna Thormann, S. 35° 40′, E. 19° 13′	29.97	761.2	71.8	22.1	74	w.			2		18		sw.	0	0	light	se.	clear.
S. S. Antonio Lopez, Cadiz, Spain..	30.37	771.4	69.5	20.8	55	calm			0		2			0	0			hazy.
Bk. Aquidneck, N. 16° 05′, W. 56° 44′ *†	30.30	769.6	84	28.9		ne.			3		1		ne.	0	0	h'vy	ne.	clear.
Bgt. Arthur, N. 3° 20′, W. 15° 41′*†	30.04	763.0				s.			5					2 h'r	2 h'r	mod.	nw.	raining.
Bg. Belle of the Bay, Galveston, Texas †	30.23	767.8				n.			6		10		n.	7 h'r	7 h'r			threatening.
S. S. Burswell, N. 33° 18′, W. 70° 13′*†	30.22	767.6	66	18.9		n.			3		2		nne.	0	0	str'ng	ne.	fine.
Bk. Champion, N. 38° 28′, W. 74° 55′			41	5.0		n			3		0			0	0	long	ene.	fair.
Bk. Commerce, N. 38° 47′, W. 64° 05′†	29.95	760.7	53	11.7		wnw.			5		8		nw.	2 h'r	2 h'r	cross	var.	threatening.
Bk. E. D. Bigelow, N. 47° 15′ W. 5° 00′*†	30.10	764.5				ssw.			6		8		wnw.	0	0	cross	w.	squally.
Schr. Edith R. Seward, Wilmington, N. C†	30.29	769.4	50	10.0		calm			0		1		calm	0	0			clear.
Bk. Edmund Phinney, N. 18° 30′, W. 37° 29′†	30.19	766.8	79	26.1		s.					4		n.	0	0	h'vy	nnw.	fair.
S. E. J. Spicer, Liverpool, Eng	29.55	750.6	54	12.2	93	ssw.			3		10		ssw.	rain	rain			raining.
Bk. E. L. Pottingill, S. 17° 42′, W. 123° 35′*†	30.00	762.0	80	26.7		nne.			1		0			0	0	sm'h	sw.	
Bk. Essex, S. 12° 43′, E. 45° 56′*†	29.93	760.2	88	31.1		s.			3				light	light			ne.	fine.
Schr. F. E. McDonald, N. 37° 11′, W. 74° 50′†	30.31	769.9	39	3.9		n.			4		0			0	0	sm'h	e.	fine.
U.S.F.C.S.S. Fish Hawk, Washington, D. C †	30.30	769 6	33	0.6		calm			0		4		calm					clear.
S. S. Foscolia, N. 48° 02′, W. 21° 10′						sse.			7		5		wsw.	0	0	cross		fair.
Bk. Freya, Matanzas, Cuba, W. I.			72	22.2		ne.			2		0			0	0			fine.
S. Geo. Stetson, N. 25° —′, W. 36° —′ *†	30.15	765.8	76	24.4	77	calm			0		2		se.	0	0	sm'h	ne.	clear.
Bk. Gronsvaer, Auckland, N. Z	30.14	765.5	74.6	23.7		ne.			4		0			0	0			clear.
Bk. Hattie G. McFarland, N. 17° 52′, W. 57° 29′			76	24.4		calm			0		3		e.	0	0	long	ne.	
Schr Hattie Weston, N. 37° 30′, W. 72° 30′ *†	30.40	772.1	56	13.3		nnw.			3		8		nnw.	0	0	mod.	ne.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
S. Hedwig, N. 39° 05′, W. 6[illegible]° 11′	30.08	764.0	52.0	11.1	.....	n.	.....	.....	1	.....	7	.....	nw.	½ h'r	½ h'r	4	se.	showery.
Schr. Isabel Alberto, Jersey City, N. J †	30.32	770.1	.....	.....	.....	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Schr. John L. Thomas, N. 34° 16′, W. 73° 00′ *†	30.30	769.6	.....	.....	.....	nnw.	.....	.....	2	.....	1	.....	.....	0	0	mod.	con.	clear.
Bkt. Josephine, N. 7° 33′, W. 25° 53′†	30.03	762.7	82	27.8	67	ene.	.....	.....	3	.....	8	.....	ene.	0	0	sm'h	.....	fair.
S. S. J. W. Wilson, Port Eads, La.*†	30.17	766.3	54	12.2	.....	nne.	.....	.....	4	.....	2	.....	w.	0	0	.....	.....	fair.
Light House Tender Laurel, Key West, Fla†	30.14	765.5	68	20.0	.....	ne.	.....	.....	2	.....	9	.....	ne.	0	0	.....	.....	cloudy.
Bg. Lilian, N. 25° 20′, W. 59° 45′†	30.30	769.6	75	23.9	.....	nw.	.....	.....	3	.....	5	.....	nw.	0	0	mod.	nw.	fair.
Bk. Louise Adelaide, off Vera Cruz, Mexico	.....	.....	.....	.....	.....	w.	.....	.....	1	.....	10	.....	nw.	4 h'r	4 h'r	short	nne.	cloudy.
Bg. L. & W. Armstrong, N. 20° 20′, W. 64° 55′†*	30.22	767.6	.....	.....	.....	ne.	.....	.....	3	.....	1	.....	ne.	0	0	sm'h	ene	very fine.
Schr. Minnie A. Bonsall, Jacksonville, Fla†	30.30	769.6	57	13.9	.....	nne.	.....	.....	1	.....	.....	.....	sse.	.....	.....	.....	.....	cloudy.
S. Minnie N. Gerow, N. 30° 31′, W. 66° 20′*†	30.14	765.5	.....	.....	.....	n.	.....	.....	3	.....	5	.....	n.	.....	.....	long	nw.	fine.
S. M. P. Grace, S. 54° 31′, W. 59° 24′ *	29.59	751.6	44	6.7	.....	s.	.....	.....	4	.....	1	.....	s.	0	0	sm'h	sw.	fine.
Bg. Myrtle, N. 33° 47′, W. 63° 02′*†	29.98	761.5	.....	.....	.....	nnw.	.....	.....	4	.....	5	.....	nnw.	2 h'r	2 h'r	f'gh	var.	fair.
Bkt. Norena, N. 33° —′, W. 72° 20′*†	30.30	769.6	.....	.....	.....	n.	.....	.....	4	.....	10	.....	nne.	6 h'r	6 h'r	r'gh	var.	cloudy.
Bg. O. C. Clary, Miragoane, Hayti, W. I.	30.04	763.0	82	27.8	91	calm	.....	.....	0	.....	1	.....	e.	.....	.....	.....	.....	
Bk. Ottawa, N. 35° 49′, W. 7° 27′*	30.30	769.6	65	18.3	.....	se.	.....	.....	1	.....	0	.....	.....	0	0	long	w.	clear.
S. Paramita, San Francisco, Cal.	.....	.....	41	5.0	.....	ese.	.....	.....	6	.....	7	.....	se.	sh'rs	sh'rs	.....	.....	cloudy.
Schr. Pearl Nelson, Norfolk, Va*†	30.20	767.1	.....	.....	.....	w.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Raleigh, Kingston, Jamaica, W. I*†	30.00	762.0	78	25.6	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	fine.
Bk. Reindeer, N. 34° 50′, W. 69° 20′*	30.21	767.3	.....	.....	.....	nne.	.....	.....	2	.....	.....	.....	sw.	0	0	long	nne.	
Schr. S. B. Hubbard, Jacksonville, Fla*†	30.33	770.4	54	12.2	.....	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	.....	threatening.
Bk. Scud, N. 38° 56′, W. 72° 06′ *†	30.36	771.1	.....	.....	.....	nnw.	.....	.....	4	.....	8	.....	n.	0	0	sm'h	.....	cloudy.
Bk. Southern Belle, N. 38° 28′, W. 18° —′*†	30.15	765.8	60	15.6	.....	sw.	.....	.....	4	.....	0	.....	.....	1 h'r	1 h'r	long	sw.	fair.
S. Sovereign of the Seas, N. 17° 27′, W. 119° 38′*†	30.09	764.3	70	21.1	80	e.	.....	.....	1	.....	1	.....	e.	0	0	.....	ese.	clear.
Bk. Sunbeam, N. 42° 05′, W. 29° 34′*†	30.10	764.5	60	15.6	88	wsw.	.....	.....	6	.....	5	.....	sw.	1 h'r	1 h'r	r'gh	w.	fair.
S. S. Sunbeam, New Orleans, La.	30.30	769.6	49.5	9.7	82	n.	.....	.....	3	.....	6	.....	n.	0	0	.....	.....	d clouds.
S. Titan, N. 38° 18′, W. 68° 43′*†	30.20	767.1	42	5.6	74	wsw.	.....	.....	4	.....	8	.....	nnw.	0	0	small	ne.	fine.
Bk. Vincenzo Accame, N. 31° 34′, W. 71° 00′..	.....	.....	69	20.6	.....	nnw.	.....	.....	4	.....	4	.....	n	½ h'r	½ h'r	long	nne.	fair.
Bk. Wandering Jew, Montevideo, Uruguay †	29.92	760.0	73	22.8	.....	nnw.	.....	.....	6	.....	3	.....	n.	0	0	.....	.....	clear.
Schr. Wm. Wiler, St. John's River, Fla†	30.31	769.9	.....	.....	.....	nne.	.....	.....	1	.....	5	.....	ssw.	0	0	.....	.....	fair.

International Chart I. January 1, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY

By Order of the Secretary of War.
W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 2, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.41	772.3	64.8	18.2	82	n.			1		0			0	0	clear	Malaterre.
Algiers			30.40	772.2	63.0	17.2	78	w.			4		0			0	0	clear	Thève.
La Calle			30.36	771.2	63.7	17.6	80	sw.			1		2			0	0	fair	Foufréde.
Tunis			30.35	770.9															Jacques.
Saida			30.42	772.7	66.6	19.2	59	s.			1		0			0	0	clear	Pérès.
Tebessa			30.43	772.8	57.6	14.2	61	sw.			1		0			0	0	clear	Dognon.
Geriville					62.6	17.0	54	ne.			1		0			0	0	clear	Lonchamp.
Laghouat			30.47	773.9	59.4	15.2	43	ne.			1		0			0	0	clear	Abraham.
Biskra			30.45	773.4	62.2	16.8	46	nw.			1		1			0	0	very fair	Malau.
Australian.																			
Melbourne, Victoria	30.16	766.0	30.25	768.3	55.0	12.8	75	s.	10	4.5			1			0.01	0.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.53	750.0	30.08	763.9	56.8	13.8	59	sw.			3		5			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.13	739.9	29.92	760.0	37.0	2.8	91	e.	13.4	6.0			10			0.130	3.3		Dr. Wierzbiski.
Eperies	29.14	740.2	30.06	763.5	33.8	1.0	89	se.			2		10			0.205	5.2		Julius Mikolik.
Gratz	28.78	731.1	30.07	763.7	41.7	5.4	88	s.			1		8			0.012	0.3		Andreas Rospini.
Hermannstadt	28.64	727.5	30.13	765 4	34.5	1.4	94	se.			2		10			0.047	1.2		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.69	728.6	30.04	763 1	46.8	8.2	91	nw.			1		10			0.441	11.2	raining	The Staff.
Lemberg	29.00	736 5	30.03	762.7	31.8	− 0.1	76	s.			3		9			0.118	3.0		Dr. T. Stanecki.
Neu Schmecks	26.55	674.4	30.05	763.3	31.3	− 0.4	89	calm			0		10			0	0		Dr. V. von Szontagh.
Pola	30.06	763.6	30.18	766.5	53.2	11.8	90	e.			1		10			0	0		I. R. Hydrographic Office.
Szathmar	29.62	752 3	30.09	764.2	33.8	1.0	96	e			1					0.433	11.0		Joseph Midliuszky, S. J.
Szegedin	29.81	757.2	30.10	764.6	38.8	3.8	97	calm			0		10			0.157	4.0		Karl Stancel.
Trieste	30.08	764.0	30.18	766.5	49.3	9.6	95	calm			0		10			0.047	1.2	foggy	Royal Academy.
Vienna	29.32	744.8	30.07	763.7	36.7	2.6	96	calm			0		10			0.398	10.1	foggy	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.16	740.7	29.26	743.2	43.5	6.4	71	ssw.	8	3.6			6			0.015	0.4	misty	W. Boswell
Armagh, Observatory	28.98	736.1	29.21	741.9	43.0	6.1	91	ssw.	26	11.6			10					squally	S. Call.
Bidston, Liverpool Obs'y			29.49	749.0	46.0	7.8	59	sw.	25	11.2			2					blue sky	John Hartnup.
Bolton, Sharples	28.95	735.3	29.48	748.8	43.8	6.6	75	wsw.	12	5.4			8					gloomy	Thomas Mackereth.
Bradford, Yorkshire	29.10	739.1	29.50	749.3	45.3	7.4	75	sw.			2		10			0.23	5.8	raining	McLandsborough&Preston*
Bridgetown, Barbadoes	30.07	763.8	30.10	764.5	80.0	26.7	74	ne.			2		2					d. clouds	Corpl. J. Surgenor, A. H C.
Cardington					49.0	9.4	72	w.			4.0		6					d. clouds	John McLaren.
Chatham, School M. E.	29.60	751.8	29.74	755.4	51.1	10.6	74	sw.			2		2			blank	blank	d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.62	752.3	29.86	758.4	48.2	9.0	63	w.			6		6					squally	The Staff.
Fort Napier, Natal	27.55	699.8	29.78	756.4	77.2	25.1	40	s.			1		9					overcast	Corpl. F. Milner, A. H. C.
Galway	29.26	743.2	29.30	744.2	47	8.3	85	sw.			7		10			0.41	10.4	raining	Wm. Ryan.
Gibraltar, Mediterranean	30.28	769.1	30.33	770.4	68.0	20.0	94						0					blue sky	Sgt. J. Norris, A. H C.
Glasgow, Observatory	29.05	737.9	29.25	742.9	43.2	6.2	79	ssw.			4		8					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.54	750.3	29.72	754 9	49.8	9.9	71	wsw.			6		3					blue sky	The Staff.
Guernsey	29.60	751.8	29.90	759.4	50.0	10.0	78	wsw.			2		3			blank	blank	d. clouds	A. Coltenette, F. M. S
Kew, Observatory	29.69	754.1	29.73	755.1	49.6	9.8	67	sw.	16	7.2			3					d. clouds	The Staff.
Leicester, Museum	29.32	744.7	29.58	751.3	45.3	7.4	88	sw.			2		10					raining	J. C. Smith.
Malta, Mediterranean	30.18	766.6	30.24	768.1	60.0	15.6	99	w.			2		10			0	0	overcast	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.18	766.6	30.22	767.6	73.2	22.9	90	ne.			3		10					overcast	C. S. Duncombe
Oscott, St. Mary's College	29.03	737.3	29.55	750.6	44.3	6.8	79	sw.			7		8					threatening	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.40	748.3	29.68	753.9	48.0	8.9	75	wsw.			6		9					showery	The Staff.
Plymouth	29.74	755.4	29.82	757.4	48.0	8.9	77	wsw.			5		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.07	738.4	29.17	740.9	44.3	6.8	77						0					blue sky	Rev. C. Clouston, LL.D.
Scutari Cemetery, Turkey	30.10	764.5	30.17	766.3	49.4	9.7	56	ne.			2		8					d. clouds	W. H. Lyne.
Sheffield	29.22	742.2	29.50	749.3	45.0	7.2	80	sw.			4		1			0.21	5.3	blue sky	W. F. Cooper.
Silloth Rectory	29.30	741.7	29.33	745.0	44.0	6.7	79	wsw.			5		8			0.215	5.5	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.49	749.0	45.0	7.2	67	sw.	20	8.9			10					overcast	Rev. S. J. Perry.
Stratfield Turgiss	29.53	750 0	29.74	755.4	48.6	9.2	74	w.			3–4		4					showery	Rev. C. H. Griffith, F. M. S.
Truro, Royal Institution	29.83	757.7	29.90	759.4	55	12.8	68	w.			7		4					d. clouds	W. Newcombe.
Valencia, Observatory	29.67	753 6	29.70	754.4	48.6	9.2	62	w.	47	21.0			10			blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.00	762.0	30.05	763.3	18	− 7.8	87	sw.	6	2.7			10 s		calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B.*	29.97	761.2	30.03	762.7	7	−13.9	83	calm	0	0		5 cs	hs	calm	calm	0	0	hazy	G. A. Blair.
Cornwall																			
Dalhouse																			
Father Point, Quebec*	29.90	759.4	29.92	760.0	16	− 8.9	87	sw.	15	6.7			10 n			0.03	0.8	heavy snow	J. McWilliams.
Fort Garry, Manitoba*																			James Stewart.
Halifax, N. S.*	29.98	761.5	30.12	765.0	18	− 7.8	100	calm	0	0			10 n			0.010	0.3	light snow	A. Allison.
Kingston, Ontario*	29.86	758.4	30.22	767.6	20	− 6.7	84	nw.	9	4.0			10 ks		w.	0.11	2.8	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.88	758.9	30.10	764.5	18	− 7.8	87	w.	10	7.2			10 n			inap.	inap.	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.53	750.0	30.29	769.4	12	−11.1	83	n.	8	3.6		4 k	4 ks	sw.	sw.	0.07	1.8	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.60	751.8	30.36	771.1	17	− 8.3	100	w.	12	5.4		8 c	0	sw.		0.13	3.3	fair	H. Morgan.
Port Stanley, Ontario	29.68	753.9	30.38	771.6	15	− 9.4	87	w.	10	4.5			10 ks		w.	0.04	1.0	cloudy	M. Payne.
Quebec, Quebec*	29.68	753.9	30.02	762.5	14	−10.0	100	w.			1		10 n		w.			light snow	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.77	756.1	30.29	769 4	7	−13.9	76	nw.	3	1.3		0	8 ks		w.	0.04	1.0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.52	749.8	30.29	769.4	20	− 6.7	100	w.	19	8.5			10 ks			0	0	cloudy	
St. Andrews, N. B.	30.00	762.0	30.05	763.3	21	− 6.1	93	w.	3	1.3			10 n			inap.	inap.	light snow	
Sydney, C. B.*	30.03	762.7	30.10	764.5	17	− 8.3	87	sw.	15	6.7			10 s		w.	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.88	758.9	30.29	769.4	21	− 6.1	80	w.	12	5.4			10 ks		w	inap.	inap.	cloudy	Magnetic Observatory.
Yarmouth, N. S.*	29.96	761.0	30.03	762.7	32	0.0	88	w.	7	3.1			10 s		w.	0.06	1.5	cloudy	Lt. F. F. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	29.96	761.0	29.99	761.7	70.0	21.1	73	w.	13.1	5.9	0	0	0			0	0	hazy	John Duthie.
Springbok Fontein																			T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.89	632.2	.....	.....	9.5	—12.5	.....	calm	.....	.....	0	.....	0	.....	.....	0.492	12.5	clear	
Tchang-kia-tchouang	30.37	771.3	30.48	774.1	25.3	— 3.7	87	calm	.....	.....	0	.....	0	.....	.....	0	0		Mission, S. J.
Zi-Ka-Wei, near Shanghai	30.52	775.2	30.54	775.8	28.4	— 2.0	78	nnw.	1.3	0.6	.....	0	0	.....	.....	0	0	clear	M. Marc Dechevrens .S.J
Danish.																			
Copenhagen	29.39	746.6	29.44	747.8	43.0	6.1	93	sw.	18	8	.....	.....	10	.....	.....	.....	.....	rain & snow	Oversergent Fischer.
Fanoe	29.43	747.5	29.45	748.0	40.5	4.7	97	wsw.	.....	.....	4	.....	9	.....	.....	.....	.....		Overloerer Lauridsen.
Godthaab, Greenland	29.43	747.5	29.47	748.6	18.7	— 7.4	92	ne.	.....	.....	7	.....	10	.....	.....	.....	.....		S. Kleinschmidt.
Ivigtut, Greenland	29.36	745.8	29.38	746.3	33.1	0.6	.....	se	.....	.....	3	.....	8	.....	.....	.....	.....		
Jacobshavn, Greenland	29.82	757.5	29.87	758.7	—11.9	—24.4	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....		
Stykkisholm, Iceland	29.65	753.1	29.69	754.2	17.2	— 8.2	85	ne.	.....	.....	8	.....	8	.....	.....	.....	.....		A. O. Thorlacius.
Thorshavn	29.13	739.8	29.16	740.7	36.0	2.2	86	n.	7	3	.....	.....	10	.....	.....	.....	.....		Overloerer Bergh.
Vestervig	29.21	741.8	29.30	744.1	40.1	4.5	94	sw.	.....	.....	6	.....	2	.....	.....	.....	.....	hazy	Loerer Oesterbol.
Upernavik, Greenland	29.89	759.3	29.94	760.5	— 8.9	—22.7	.....	e.	.....	.....	2	.....	0	.....	.....	.....	.....		
French.																			
Agen, Normal School	.....	.....	.....	.....	51.1	10.6	93	calm	.....	.....	0	.....	k	.....	nw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.53	750.0	30.05	763.2	50.4	10.2	89	sw.	.....	.....	1	.....	k	ne.	ne.	0	0		M. Nicot, Director.
Arras, Engineer School	29.61	752.0	29.87	758.6	51.3	10.7	74	.....	.....	.....	4	ck	0	w.	.....	0.646	16.4		M. Féréon, Command't.
Avignon, Normal School	30.16	766.0	30.24	768.0	51.8	11	90	n.	.....	.....	1	.....	hz	.....	.....	0	0	hazy	M. Giraud, Director.
Bar-sur-Seine	29.52	749.7	30.08	763.9	54.9	12.7	78	wsw.	.....	.....	2	.....	8	.....	wnw.	0	0	very cloudy	M. Sallard, Director.
Beauvais, Normal School	29.67	753.7	29.94	760.4	53.1	11.7	67	wsw.	.....	.....	2	.....	5	.....	wsw.	0	0	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	.....	.....	.....	.....	46.4	8	97	s.	.....	.....	1	.....	n	.....	sw.	0	0		M. Gobin, Director.
Bordeaux, Observatory	30.10	764.5	30.36	771.2	56.8	13.8	74	wsw.	.....	.....	1	.....	8	.....	w.	0	0	al. covered	M. Rayet, Director.
Bourges, Normal School	29.65	753 0	30.21	767.3	47.3	8.5	72	w.	.....	.....	1	.....	k	.....	w.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.82	757.4	30.06	763.5	54.7	12.6	86	w.	.....	.....	3	.....	6	.....	w.	0.020	0.5		M. de Kermaïdo, Dir.
Caen, Normal School	29.88	759.0	29.96	760.9	54.0	12.2	67	sw.	.....	.....	2	.....	5	.....	sw.	0.031	0.8	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.236	6.0		M. Jadot, Director.
Charleville, Normal School	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.88	733.6	30.25	768.4	54.3	12.4	72	sw.	.....	.....	1	.....	10	.....	w.	0	0	covered	M. Allnard, Director.
Cluny, Normal School	29.30	744.3	30.17	766.2	56.7	13.7	81	sw.	.....	.....	1	.....	10	.....	sw.	.....	.....	light rain	M. de Villemontée, Dir.
Commercy, Normal School	29.17	741.0	30.04	763.0	52.9	11.6	80	w.	.....	.....	3	.....	5	kn w.	w.	0.004	0.1	raining	Dr. Goulet, Director.
Gap, Normal School	27.64	702.0	30.22	767.5	47.8	8.8	63	w.	.....	.....	1	2 c	0	e.	.....	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.06	738 0	30.19	766 7	57.2	14	39	n.	.....	.....	1	.....	5	.....	sw.	0	0		M. Klun, Director.
Grenoble. Normal School	29.45	747.9	30.23	767.9	49.3	9.6	81	e.	.....	.....	1	ck	0	e.	.....	0	0		M. Ablard, Director.
Guéret	28.59	726.1	30.19	766.7	50.9	10.5	69	wsw.	.....	.....	4	0	5	kn	w.	0	0	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.84	757.5	30.10	764.5	52.2	11.2	71	w.	.....	.....	4	.....	5	.....	w.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.77	756.1	30.34	770.6	52.2	11.2	86	ese.	.....	.....	1	8 ck	0	.....	.....	0	0	very cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.00	762.1	30.11	764.7	54.3	12.4	78	wsw.	.....	.....	4	.....	8	sw.	w	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.14	740.2	30.22	767.5	50.5	10.3	80	ene.	.....	.....	1	.....	10	.....	.....	0	0	light haze	M. André, Director.
Mans, Normal School	29.73	755.1	30.12	765.0	52.0	11.1	98	w.	.....	.....	3	.....	5	.....	w.	0	0	cloudy	M. Piboën, Director.
Marseille, Observatory	29.92	759.9	30.19	766.8	56.1	13.4	65	w.	.....	.....	1	.....	8	.....	wsw.	0	0	.....	M. Stephan, Director.
Montlouis	25.04	635.9	29.88	758.9	44.2	6.8	75	nw.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	M. Carré for Dr. Finsa.
Montpellier, Normal School	30.08	764.1	30.21	767.3	52.9	11.6	100	ne.	.....	.....	2	.....	5	.....	sw.	0	0	foggy	M. Galzin, Director.
Nancy, Normal School	29.14	740.1	29.93	760.1	51.8	11.0	93	w.	.....	.....	1	.....	8	.....	w.	0	0		M. Hasse, Director.
Nantes, Observatory	30.01	762.2	30.16	766.1	55.8	13.2	77	wsw.	.....	.....	1.3	.....	10	n;kn	wsw.	0.157	4.0		M. Larocque, Director.
Perpignan, Observatory	30.15	765.9	30.27	768.8	62.8	17.1	57	nw.	18.6	8.3	.....	.....	9	sw.	nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.39	543.2	.....	.....	24.4	— 4.2	.....	nw.	.....	.....	1	.....	5	.....	nw.	0	0	cloudy	M. Vaussenat.
Privas, Normal School	29.19	741 3	30.27	768.9	58.0	10	79	n.	.....	.....	1	.....	2	n.	n.	0	0	slightly cl'dy	M. Taillan.
Puy de Dôme Obs'y, Summit	25.24	641.0	.....	.....	38.3	3.5	100	w.	.....	.....	6	.....	10	.....	.....	0.008	0.2	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	30.21	767.3	30.24	768.1	55.4	13.0	100	sw.	.....	.....	1	.....	10	.....	wsw.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.98	761.4	30.19	766.9	54.7	12.6	86	w.	.....	.....	1	.....	5	.....	.....	0.12	3	cloudy	M. Brotier, Director.
Rodez, Normal School	28.13	714.6	30.32	770.1	51.4	10.8	82	w.	.....	.....	1	.....	1g	.....	sw.	0	0	foggy	M. Seger, Director.
Rouen, Normal School	29.94	760.5	29.99	761.7	53.6	12	80	sw.	.....	.....	2	.....	5	.....	.....	.....	.....	raining	M. Mouillot.
Saint Lô	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Delaplanche, Dir.
Saint Maur, Observatory	29.83	757.7	30.00	761.9	55.2	12.9	73	sw.	.....	.....	2	.....	2	.....	var.	0.008	0.2	.....	M. Renou, Director.
Toulouse, Observatory	29.63	752.7	30.37	771.3	55.2	12.9	80	sw.	.....	.....	1	.....	8	w.	.....	0	0	very cloudy	M. Baillaud, Director.
Tours	29.97	761.3	30.15	765.8	56.8	13.8	71	sw.	.....	.....	1	.....	5	w.	w.	0.012	0.3	cloudy	M. de Tastes.
Versailles, Observatory	29.50	749.2	29.99	761 7	54.3	12.4	72	w.	.....	.....	3	.....	.....	.....	.....	0.024	0.6	.....	Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	30.23	767.8	30.38	771.6	57.7	14.3	76	sw.	11.9	5.3	.....	7 k	0	w.	.....	0	0	.....	M. Cartier, Director.
German.																			
Ansbach	28.53	724.7	29.98	761.6	52.5	11.4	72	sw.	.....	.....	2	.....	8	sw.	.....	0.575	14.6	.....	Prof. Juedt.
Bamberg	29.00	738.9	29.93	760.2	52.2	11.2	80	sw.	.....	.....	1	0	9	k	sw.	0.08	2.	.....	Prof. Dr. Hoh.
Berlin	29.59	751.5	29.73	755.2	50.7	10.4	84	w.	.....	.....	3	.....	10	.....	.....	0.406	10.3	.....	Dr. Lensch.
Breslau	29.32	744 8	29.85	758 2	48.0	8 9	78	sw.	.....	.....	2	.....	10	.....	.....	0.441	11.2	light rain	Royal University Obs'y.
Carlsruhe	29.53	750.1	29.97	761.3	53.2	11.8	86	sw.	.....	.....	5	.....	5	sw.	.....	0.319	8.1	rainy	Albert Senz.
Cassel	29.06	738.1	29.77	756.2	51.4	10.8	87	s.	.....	.....	4	.....	8	sw.	.....	0.417	10.6	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.54	750.4	29.91	759.7	53.1	11.7	91	sww.	.....	.....	1	.....	9	.....	.....	0.067	1.7	light rain	Physical Society.
Friedrichshafen	28.65	727.8	30.11	764.7	50.0	10.0	89	w.	.....	.....	3	.....	10	w.	.....	0.201	5.1	.....	Wilhelm, Chief Tel.
Hamburg	29.55	750.6	29.64	752.9	48.9	9.4	87	wsw.	.....	.....	5	.....	9	.....	.....	0.315	8.0	.....	E. Preller.
Kiel	29.55	750.6	29.57	751.0	47.8	8.8	89	wsw.	.....	.....	4	.....	10	.....	.....	0.425	10.8	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.40	746.8	29.82	757.5	52.5	11.4	83	wsw.	.....	.....	2	.....	6	wsw.	.....	0.343	8.7	.....	H. Leppig, Asst.
Magdeburg	29.56	750.8	29.75	755.6	53.1	11.7	79	sw.	.....	.....	3	0	7	k8	w.	0.217	5.5	.....	Weather Observatory.
Memel	29.61	752.1	29.66	753 3	32.2	0.1	94	sse.	.....	.....	6	.....	10	.....	.....	.....	.....	sleeting	Issermann.
Munich	28.22	716.8	30.09	764.2	50.7	10.4	87	sw.	.....	.....	2	.....	10	sw.	.....	0.244	6.2	raining	Central Station.
Neufahrwasser	29.63	752.6	29.65	753.0	37.4	3.0	95	s.	.....	.....	2	.....	10	.....	.....	0.134	3.4	hazy	A. Lothes.
Neustadt, Palatinate	29.39	746.4	29.91	759.7	55.4	13.0	77	wsw.	.....	.....	5	.....	9	sw.	.....	0.311	7.9	raining	Dicknether.
Stuttgart	29.05	737.8	29.94	760.4	55.9	13.3	72	w.	.....	.....	2	.....	9	w.	.....	0.134	3.4	raining	Prof. Dr. Schoder.
Wustrow	29.59	751.5	29.61	752 1	42.3	5.7	83	sw.	.....	.....	4	.....	10s	.....	.....	0.378	9.6	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.76	755.9	30.15	765.7	58.3	14.6	.....	nw.	.....	.....	1.0	.....	10	.....	.....	0	0	covered	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.10	764.6	30.15	765.8	77.9	25.5	32	ene.	21.0	9.4	.....	.....	2	.....	.....	0	0	d. clouds	
Deesa	29.55	750.6	30.03	762.6	82.8	28.2	26	nw.	7.0	3.1	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.94	760.4	29.98	761.4	81.1	27.3	70	wnw.	7.0	3.1	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.12	714.1	29.96	761.1	83.0	28.3	21	ese.	7.0	3.1	.....	.....	1	s.	.....	0	0	d. clouds	
Belgaum	27.43	696.7	29.97	761.2	78.1	25.6	29	ese.	7.0	3.1	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.35	745.4	30.12	765.1	64.6	18.1	49	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	29.13	739.9	30.06	763.4	69.8	21.0	44	w.	.....	.....	.....	.....	0	.....	.....	0	0	.....	
Agra	29.48	748.9	30.06	763.6	73.7	23.2	57	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.98	736.1	30.03	762.8	79.9	26.6	34	calm	2.0	0.9	.....	.....	1	.....	.....	0	0	blue sky	
Jubbulpore	28.68	728.4	30.06	763.5	73.6	23.1	54	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.66	753.4	30.05	763.3	70.2	21.2	59	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.72	754.9	30.05	763.2	65.8	18.8	68	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.87	758.8	30.07	763.7	67.4	19.7	59	w.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	28.00	711.1	30.07	763.7	65.5	18.6	47	nw.	5.2	2.3	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.98	761.4	30.06	763.5	72.5	22.5	67	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	30.03	762.8	30.06	763.4	67.5	19.7	58	w.	0.5	0.2	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.92	760.0	30.04	763.1	67.1	19.5	65	calm	0.4	0.2	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.98	761.4	30.07	763.8	66.4	19.1	73	w.	3.3	1.5	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.73	755.1	30.08	764.1	61.1	16.2	86	se.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar	29.87	758 8	29.90	759.4	82.0	27.8	75	sse.	3.7	1.6	.....	.....	8	.....	se.	.....	.....	drizzling	
Jeypore	28 61	726.7	30.08	764.1	73.7	23.2	56	nw.	2.3	1.0	.....	.....	10	.....	.....	0	0	blue sky	
Bellary	28.52	724.4	.....	.....	79.0	26.1	40	se.	6	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.75	755.6	.....	.....	80.1	26.7	66	se.	1	0.4	.....	.....	0	.....	.....	0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.77	756.2	30.20	767.1	48.0	8.9	89	calm	0	0	.....	.....	10	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.66	753.3	30.20	767.1	45.5	7.5	96	ne.	4.9	2.2	.....	.....	10	.....	.....	0.016	0.4	.....	Prof. Schiapparelli.
Padua	30.06	763.6	30.18	766.5	46.9	8.3	82	nnw.	2.5	1.1	.....	.....	5	wsw.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.25	743 0	30.20	767.0	41.5	5.3	95	nnw.	4.3	1.9	.....	.....	9	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.97	761.3	30.17	766.3	54.5	12.5	89	se.	3.8	1.7	.....	.....	10	s.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.23	717.1	30.23	767.9	42.6	5.9	92	w.	.....	.....	4	.....	10	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.15	765.9	30.21	767.2	47.5	8.6	94	sw.	5.6	2.5	.....	.....	10	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.93	760.1	30.19	766.8	53.6	12.0	90	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	30.04	762.9	30.12	765.1	54.3	12.4	82	ene.	0.7	0.3	.....	.....	10	.....	.....	0.020	0.5	.....	Prof. P. Monte.
Rome	30.04	762.9	30.21	767.4	56.8	13.8	80	sw.	0	0	.....	.....	10	.....	.....	0	0	.....	Prof. P. Tachini.
Lecce	29.96	761.0	30.22	767.6	57.2	14.0	76	nne.	8.1	3.6	.....	.....	3	n.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.32	744.8	30.24	768.0	55.8	13.2	77	ssw.	3.1	1.4	.....	.....	6	sw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.04	762.9	30.23	767.9	57.2	14.0	81	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.98	761.4	30.23	767.8	61.7	16.5	61	calm	0	0	.....	.....	10	.....	.....	0	0	.....	Prof. G. Caccintore.
Syracuse	30.16	766.0	30.20	767.1	58.5	14.7	78	s.	3.1	1.4	.....	.....	3	wnw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.68	753.8	30.21	767.4	55.4	13.0	92	sw.	0	0	.....	.....	10	sw.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.22	564.4	.....	.....	32.2	0.1	79	se.	.....	.....	2	.....	8	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.26	565 4	.....	.....	30.6	— 0.8	74	ne.	.....	.....	2	.....	7	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.97	761.3	30.00	762.1	22.5	— 5.3	86	nw.	.....	.....	4	.....	10 n	.....	nw.	0.193	4.9	snowing	Hattori.
Awomori	29.90	759.3	29.93	760.3	19.0	— 7.2	84	wnw.	17.7	7.9	.....	.....	9 n	.....	.....	0.045	1.4	light snow	K. Ogawa.
Hakodate	29.84	757.8	29.85	758.1	10.5	—11.9	94	n.	1.9	0.9	.....	0	3	.....	.....	0	0	clear	
Hamamatsu	30.06	763.5	30.09	764.2	36.6	2.6	93	nw.	.....	.....	2	0	0	.....	.....	0	0	clear	
Kagoshima	30.32	770.1	30.33	770.4	32.6	0.3	82	n.	.....	.....	2	0	0	.....	.....	0	0	clear	G. Miyanohaza.
Kioto	29.99	761.7	30.17	766.3	36.2	2.3	85	wnw.	1.2	0.5	.....	.....	10 n	.....	.....	inap.	inap.	light rain	M. Tojima.
Kochi	30.20	767.0	30.22	767.5	35.4	1.9	73	nw.	3.9	1.7	.....	0	0	.....	.....	0	0	clear	K. Kusunose.
Miasaka	30.27	768.9	30.30	769.6	36.8	2.7	69	w.	.....	.....	2	0	0	.....	.....	0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.15	765 7	30.36	771.2	34.5	1.4	75	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Takehayashi.
Niigata	30.03	762.7	30.07	763.8	32.6	0.3	73	n.	13.5	6.0	.....	.....	10 n	.....	n.	0.015	0.4	light snow	M. Morita.
Nobiru	29.95	760.7	29.97	761.1	25.3	— 3.7	97	nw.	12.4	5.5	.....	.....	10 n	.....	.....	0.010	0.3	snowing	H. Midzushima.
Numazu	29.94	760.5	29.98	761.4	41.4	5.2	62	ene.	.....	.....	4	0	1 ks	.....	.....	0	0	fair	R. Kaneda.
Sakai	30.20	767.1	30.21	767.4	40.4	4.7	63	w.	.....	.....	4	.....	10 n	.....	.....	0.976	24.8	sleeting	K. Yamawchi.
Sapporo	.....	.....	.....	.....	14.5	— 9.7	97	w.	15.0	6.7	.....	0	0	.....	.....	0	0	clear	
Tokei Obs'y, Yeddo	29.93	760.1	30.01	762.2	33.8	1.0	56	n.	6.3	2.8	.....	0	5 8	.....	w.	0	0	fair	The Staff.
Wakayama	30.13	765.2	30.18	766.6	42.7	5.9	59	nw.	12.6	5.6	.....	.....	10 cks;ks	.....	nw.	0	0	cloudy	Y. Kuwamnea.
Osaka	30.16	766.0	30.17	766.4	36.3	2.4	85	nw.	0.8	0.4	.....	.....	10 8	.....	.....	0	0	cloudy	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.84	757 9	30.03	762.7	81.4	27.4	55	ene.	14.5	6.5	.....	4 cs;c	2 k	w.	.....	0.03	0.8	fair	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. Diaz Pena.
Guanajuato	23.70	602.1	29.92	760.1	49.5	9.7	88	calm	0	0	.....	8 c;ck	0	sw.	.....	0	0	cloudy	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.24	768.1	44.6	7.0	96	calm	.....	.....	0	8 c	0	.....	.....	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.76	755.9	30.02	762.6	65.0	18.3	94	n.	1.6	0.8	.....	7 cs	0	sw.	.....	0	0	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	588.0	30.34	770.6	44.8	7.1	84	calm	0	0	.....	.....	10 k	.....	.....	0	0	foggy	The Staff.
Morelia	24.30	617.3	30.18	766.6	43.5	6.4	70	se.	.....	.....	2	1 c	1 k	s.	se.	0	0	clear	M. Tena, M. D.
Puebla, Catholic Institute	23.41	594.6	30.23?	768.7?	44.6	7.0	59	calm	0	0	.....	0	9	.....	s.	0	0	cloudy	Prof. P. Spina.
Zacatecas	22.52	571.9	30.29	769.4	42.0	5.4	83	se.	5.8	2.6	.....	10 cs	0	wsw.	.....	0	0	covered	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.75	755.7	29.75	755.7	50.4	10.2	.....	wsw.	.....	.....	5	.....	.....	.....	.....	0.039	1.0	.....	
Groningen	29.50	750.9	29.62	752.3	48.7	9.3	.....	sw.	.....	.....	5	.....	.....	.....	.....	0.098	2.5	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Hellevoetsluis	29.72	755.0	29.72	755 0	49.6	9.8	85	wsw.	.....	.....	4	.....	.....	.....	.....	0.008	0.2	.....	
Utrecht	29.67	753.6	29.72	754.8	51.3	10.7	87	ssw.	.....	.....	4	.....	8	.....	.....	0.004	0.1	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.91	759.8	.....	.....	82.6	28.1	72	nw.	0	0	.....	.....	7	.....	.....	0	0	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.06	738.0	29.12	739.6	40.3	4.6	97	sse.	0	4	.....	.....	10	.....	.....	0.256	6.5	raining	
Brono	28.93	734.9	28.97	735.9	37.8	3.2	93	ssw.	29	13	.....	.....	10	.....	.....	.....	.....	rain & fog	
Christiania	29.06	738 2	29.21	742.0	20.1	— 3.3	98	nne.	4	2	.....	.....	10	.....	.....	0.051	1.3	foggy	
Glæsvær	29.06	738.0	29.08	738.6	16.7	— 8.5	.....	se.	.....	.....	2	.....	7	.....	.....	.....	.....	.....	
Lodingen	28.80	733.0	28.91	734.2	31.8	— 0.1	100	calm	.....	.....	0	.....	10	.....	.....	0.524	13.3	snowing	
PORTUGUESE.																			
Angra, Azores	29.74	755.4	29.90	759.4	62.4	16.9	81	s.	31.1	13.9	.....	.....	10	.....	.....	0.630	16.0	.....	Dr. J. A. Sampaio.
Campo Major	29.44	747.8	30.47	774 0	50.7	10.4	97	ne.	1.3	0.6	.....	.....	10	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.29	769.3	30.38	771.6	66.6	19.2	70	se.	3.8	1.7	.....	.....	2	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.10	764.6	30.47	774.0	54.3	12.4	100	ne.	1.8	0.8	.....	.....	10	.....	.....	0	0	light fog	The Staff.
Ponta Delgada, Azores	29.98	761.5	30.05	763 3	64.4	18.0	77	s.	24.8	11.1	.....	.....	3	ese.	.....	0	0	.....	
Saint Paul de Lonado	29.73	755.1	29.93	760.2	77.7	25.4	75	w.	1.3	0.6	.....	.....	2	sse.	.....	0	0	.....	
Serra da Estrella	25 60	650.2	30.42	772.6	45.5	7.5	68	nw.	3.8	1.7	.....	.....	3	.....	.....	0.551	14.0	foggy	
RUSSIAN.																			
Akmolinski	28.85	732.9	29.98	761.5	30.7	— 0.7	81	s.	20	9	.....	0	0 ks	.....	.....	.....	.....	.....	Major K. Lasarew.
Archangel	29.85	758.3	29.87	758.8	— 1.8	—18.8	87	s.	9	4	.....	.....	10	.....	.....	0	0	.....	Capt. Sselliwerstow.
Ashuruda	30.25	768.4	30.16	766.0	52.3	11.3	93	ene.	13	6	.....	.....	10 ks;n	.....	.....	0	0	.....	
Astrakhan	30.21	767.3	30.13	765.2	27.7	— 2.4	52	w.	20	9	.....	0	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.34	770.0	30.29	769.4	36.7	2.6	93	n.	22	10	.....	.....	9 kn	.....	.....	0.047	1.2	.....	
Barnaul	29.80	756.9	30.37	771.3	30.0	— 1.1	70	calm	0	0	.....	.....	10	.....	.....	0.197	5.0	.....	Meteorological Obs'y.
Bielosersk	29.66	751.8	30.13	765.2	— 5.4	—20.8	91	calm	0	0	.....	4 c	0	.....	.....	0	0	light clouds	
Dorpat	29.58	751.4	29.85	758.2	9.7	—12.4	100	ese.	4	2	.....	10 cs	0	.....	.....	0.118	3.0	.....	Observatory.
Ekaterinburg	28.02	727.0	29.65	753.1	11.8	—11.2	80	s.	4	2	.....	cs	4 8	.....	.....	0.008	0.2	.....	Meteorological Obs'y.
Elissawetgrad	29.80	757.0	30.28	709.1	28.9	— 1.7	72	wnw.	2	1	.....	0	2 8	.....	.....	0	0	.....	
Kasan	29.44	747.7	29.73	755 2	2.1	—16.6	71	nnw.	13	6	.....	.....	10	.....	.....	0.012	0.3	.....	Observatory.
Kem	29.58	751.4	29.63	752.7	6.1	—14.4	83	s.	45	20	.....	.....	10 n	.....	.....	0	0	.....	
Kertch	30.27	768.9	30.29	769 4	32.9	0.5	90	calm	0	0	.....	0	3 8	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.52	749.8	30.20	767.0	26.4	— 3.1	72	wsw.	2	1	.....	0	0	.....	.....	0	0	.....	Observatory.
Koslov	29.44	747.8	30.03	762.7	4.5	—15.3	81	nw.	9	4	.....	0	0	.....	.....	0	0	.....	
Libau	29.53	750.0	29.55	750 6	32.9	0.5	90	sse.	18	8	.....	.....	10	.....	.....	0.012	0.3	rain & sleet	E. Quass.
Lugan	29.90	759.5	30.10	764.6	22.6	— 5.2	93	wnw.	13	6	.....	.....	6	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.66	751 7	30.13	765.4	4.1	—15.5	81	nw.	5.6	2.5	.....	0	0	.....	.....	0	0	.....	
Nikolaiev	30.21	767.4	30.29	769.3	30.2	— 1.0	86	calm	0	0	.....	8 c	0	.....	.....	0	0	.....	Capt. Kurdakow.
Pekin, China	30.30	769.6	30.44	773 2	27.1	— 2.7	37	calm	0	0	.....	0	2 k	.....	.....	0	0	.....	Physical Observatory.
Petrozavodsk	29.74	755 3	29.96	760 9	— 1.8	—18.8	82	ssw.	7	3	.....	c	3 ks	.....	.....	0.067	1.7	.....	Dr. Bergmann.
Pinsk	29.53	750.1	30.06	763.4	28.8	— 1.8	86	se.	18	8	.....	8 cs	0	.....	.....	0	0	.....	
Poti	30.19	766.8	30.21	767.3	46.0	7.8	66	ese.	4	2	.....	.....	8 n	.....	.....	0.197	5.0	.....	
St. Petersburg	29.94	760.4	29.95	760.8	— 1.1	—18.4	95	sse	9	4	.....	0	8 s;n	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Sevastopol	30.01	762.2	30.17	766.4	40.8	4.9	50	ne.	11	5	.....	0	1 8	.....	.....	0	0	.....	
Semipalatinsk	29.74	755.4	30.44	773.2	18.0	— 7.8	66	sse.	16	7	.....	.....	0	.....	.....	0	0	.....	Major Lasarew.
Starol Bykhov	29.71	754 5	30.20	767 1	17.8	— 7.9	100	se.	4	2	.....	5 cs	0	.....	.....	0	0	.....	
Tiflis	28.75	730.3	30.21	767.4	42.3	5.7	33	nw.	13	6	.....	0	1 8	.....	.....	0	0	.....	Physical Observatory.
Tomsk	29.87	758.8	30.17	766 2	31.1	— 0.5	92	s.	2	1	.....	.....	10	.....	.....	.....	.....	.....	
Vlatka	29.09	738.9	29.78	756.5	— 0.4	—18.0	.....	n.	4	2	.....	.....	9	.....	.....	0	0	.....	
Warsaw	29.39	746.4	29.83	757 6	33.4	0.8	89	ssw.	13	6	.....	.....	10	.....	.....	0.244	6.2	heavy cld's	Astronomical Obs'y.
Wilna	29.50	749 2	29.94	760 4	26.8	— 2.9	83	sw.	9	4	.....	.....	9	.....	.....	0	0	.....	Berg, Assistant.
Yeniseisk	30.03	762.8	30.34	770.7	12.6	—10.8	98	sse.	2	1	.....	.....	10	.....	.....	0	0	.....	M. O. Marks.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Scottish.																			
Monach Lt	.....	.....	29.23	742.4	45	7.2	92	sw.	.....	.....	6	.....	10	.....	.....	0	0	cloudy	J. Youngclause
North Unst	.....	.....	29.09	738.9	.....	.....	.....	s.	.....	.....	0	.....	10	.....	.....	blank	blank		Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.15	765.8	30.26	768.5	60.1	15.6	60	sw.	2.0	0.9	.....	0	1	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.33	770.3	30.39	771.8	61.0	16.1	70	sw.	2.7	1.2	.....	3	2	nw.	.....	0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.40	695.9	30.48	774.2	43.2	6.2	86	sw.	7.2	3.2	.....	.....	10	.....	.....	0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	28.16	715.2	30.49	774.5	41.9	5.5	97	ne.	0.9	0.4	.....	.....	10	.....	.....	0.012	0.3	covered	The Staff.
Murcia, Met. Obs'y	30.17	766.4	30.31	769.8	66.2	19.0	56	wnw.	3.6	1.6	.....	0	3	.....	.....	0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.48	748.9	30.38	771.6	48.2	9.0	95	w.	4.9	2.2	.....	3 8	0	e.	.....	0	0	fair	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.44	747.8	30.35	770.8	56.1	13.4	87	s.	5.6	2.5	.....	.....	4	.....	.....	0.705	17.9	cloudy	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.91	759.8	29.97	761.2	75.0	23.9	68	nne.	29.5	13.2	.....	0	4 ks	.....	.....	0.079	2.0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.30	769.6	30.40	772.1	59.2	15.1	77	ne.	2.1	0.9	.....	0	2	.....	nw.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.07	763.8	30.16	766.1	75.9	24.4	75	calm	0	0	.....	2 8	2 k	e.	e.	0	0	.....	Manuel Maese.
Swedish.																			
Haparanda	29.20	741.6	29.24	742.6	20.1	— 6.6	100	s.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Umea	29.21	742.0	29.26	743.3	30.6	— 0.8	96	sw.	.....	.....	7	.....	10	.....	.....	0.185	4.7	.....	
Hernosand	29.22	742.2	29.28	743.5	27.0	— 2.8	92	se.	.....	.....	6	.....	10	.....	.....	0	0	.....	
Stockholm	29.12	739.6	29.30	744.1	34.5	1.4	96	sse.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	
Wisby	29.26	743.3	29.32	744 8	36.0	2.2	96	s.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	
Sub-series.																			
Upsala	29.19	741.3	29.27	743.5	33.4	0.8	100	se.	13.9	6.2	.....	.....	10	.....	.....	0.201	5.1	snow & fog	S. G. Fineman.
Swiss.																			
Geneva	28.76	730.6	30.20	767.1	50.2	10.1	85	ssw.	.....	.....	2	.....	10	.....	.....	0	0	covered	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.19	766.7	48.0	8.9	63	ne.	9	4.0	.....	.....	8	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	30.21	767.2	58.6	14.8	.....	n.	.....	.....	1	.....	2	.....	.....	0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.88	759.0	61.2	16.2	79	sw.	.....	.....	1	.....	10 n	.....	sw.	0.46	11.7	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred L. Kingsbury.
United States.																			
Albany, New York	30.14	765.5	30.23	767.8	31	— 0.6	67	e.	2	0.9	.....	0	8 ks	.....	nw.	0.01	0.3	cloudy	J. O. Barnes.
Alpena, Michigan	29.64	752.8	30.35	770 9	11	—11.7	80	w.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.00	635.0	30.12	765.0	19	— 7.2	73	e.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.21	691.1	30.25	768.3	1	—17.2	72	w.	10	4.5	.....	.....	10 n	.....	w.	0.20	5.1	light snow	B. O. Lenoir.
Atlanta, Georgia	29.18	741.2	30.41	772.4	36.5	2.5	75	nw.	9	4.0	.....	0	2 s;fg	.....	.....	inap.	inap.	clear	H. C. Smith.
Atlantic City, New Jersey	30.27	768.8	30.28	769.1	30	— 1.1	88	nw.	5	2.2	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	Jas. M. Watson.
Augusta, Georgia	30.20	767.1	30.40	772.1	43	6.1	83	calm	0	0	.....	0	2 s	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.29	769.4	30.34	770.6	35	1.7	79	w.	1	0.4	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	Geo W Felger.
Barnegat, New Jersey	30.25	768 3	30.27	768.8	32.0	0.0	94	w.	13	5.8	.....	0	5 s	.....	.....	inap.	inap.	fair	G. A. Hill.
Behring Id., Behring Sea	29.00	736.6	29.02	737.1	22.1	— 5.5	.....	s.	10	7.2	.....	.....	10 n	.....	.....	0.06	1.5	cloudy	Leonard Steineger.
Bennett, Fort, Dakota	28.35	720.1	30.09	764 3	— 3	—19.4	83	se.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27 24	691.9	30.22	767.8	3	—16.1	70	calm	0	0	.....	0	7 s	.....	.....	0	0	fair	S. Wheaton.
Billings, Montana	26.81	681.0	.....	.....	10	—12.2	.....	w.	24	10.7	.....	.....	10 s	.....	.....	0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.08	713.2	30.07	763.8	5	—15.0	76	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	Cyrus Cramer
Block Island, Rhode Island	30.16	766.1	30.20	767.1	36	2.2	79	nw.	18	8.0	.....	0	6 ks	.....	w.	0.03	0.8	fair	J. T. Eiker.
Boise City, Idaho	27 33	694.2	30.26	768.6	— 6	—21.1	91	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	30.00	762.0	30.17	766.3	30.0	— 1.1	67	w.	11	4.9	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	O. B. Cole.
Brownsville, Texas	30.30	769.6	30.35	770.9	35.0	1.7	89	n.	16	7.2	.....	.....	10 s	.....	n.	0.15	3.8	cloudy	M. McCarty.
Buffalo, New York	29.51	749.5	30.31	769.9	22.5	— 5.3	73	sw.	26	11.6	.....	0	2 ks	.....	sw.	0.04	1.0	clear	W. Finn.
Buford, Fort, Dakota	27.94	709.7	30.14	765.5	1	—17.2	100	n.	6	2.7	.....	.....	10 n	.....	.....	inap.	inap.	light snow	F. A. Mellen.
Burlington, Vermont	29.83	757.7	30.14	765.5	24.0	— 4.4	86	s.	7	3.1	.....	1 cs	9 s	w.	w.	0	0	cloudy	G. O. Schaeffer.
Cairo, Illinois	30.16	766.1	30.58	776.7	20.0	— 6.7	84	ne.	4	1.8	.....	0	6 s	.....	ne.	0.01	0.3	fair	W. H. Ray.
Cape Henry, Virginia	30.23	767.8	30.25	768.3	35	1.7	89	sw.	6	2.7	.....	4 c	2 s	.....	.....	0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.27	768.8	30.30	769.6	35.0	1.7	79	w.	10	4.5	.....	0	hz.	.....	.....	0.08	2.0	clear	W. E. Smith.
Cape Mendocino, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. J. McLean.
Cedar Keys, Florida	30.28	769.1	30.30	769.6	55	12.8	80	ne.	7	3.1	.....	7 cK	0	.....	.....	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.62	752.3	30.49	774.4	1.3	—17.1	70	sw.	4	1.8	.....	0	0	.....	.....	0.32	8.1	clear	L. A. Welsh.
Charleston, S. Carolina	30.26	768.6	30.32	770.1	48	8.9	77	nw.	5	2.2	.....	0	4 s	.....	.....	0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.46	748 3	30.35	770.9	33.0	0.6	88	n.	4	1.8	.....	0	fg.	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.60	751.8	30.46	773.7	35.5	1.9	74	nw.	4	1.8	.....	0	4 k	.....	n.	0.01	0.3	fair	B. L. Goulding.
Cheyenne, Wyoming	23.87	606.3	30.12	765.0	25.4	— 3.7	46	sw.	10	4.5	.....	4 c	0	.....	.....	0	0	fair	E. McGovern.
Chicago, Illinois	29.69	754 1	30.44	773.2	7.0	—13.9	76	w.	7	3.1	.....	0	0	.....	.....	0.01	0.3	clear	J. Mitchell.
Chincoteague, Virginia	30.30	769.6	30.32	770.1	33	0.6	88	nw.	4	1.8	.....	2 c	fg.	w.	.....	0.03	0.8	clear	C. F. Dickens.
Cincinnati, Ohio	29.86	758 4	30.55	776.0	24	— 4.4	88	nw.	2	0.9	.....	.....	10 s	.....	w.	0.02	0.5	cloudy	R. B. Watkins.
Cleveland, Ohio	29.67	753.6	30.45	773.4	12	—11.1	85	sw.	9	4.0	.....	0	0	.....	.....	0.07	1.8	clear	J. B. Newlin.
Coleman City, Texas	28.56	725.4	30.44	773.2	21	— 6.1	87	n.	2	0.9	.....	.....	10 k	.....	s.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.60	751.8	30.50	774.7	16	— 8.9	67	w.	4	1.8	.....	0	3 s	.....	.....	0.10	2.5	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.41	721.6	30.43	772.9	22.0	— 5.6	73	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. McGlone.
Custer, Fort, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. B. Lamar.
Davenport, Iowa	29.73	755.1	30.44	773.2	7	—13.9	52	w.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	R. R. Martin
Davis, Fort, Texas	25.24	641.1	30.22	767.6	21	— 6.1	87	n.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.35	720.1	30.15	765.8	13	—10.6	73	sw.	3	1.3	.....	.....	10 s	.....	sw.	0	0	cloudy	D. Moore.
Deadwood, Dakota	25.09	637.3	30.03	762.7	22	— 5.6	87	e.	4	1.8	.....	4 cs	0	.....	.....	0	0	fair	F. Willson.
Delaware Breakwater, Del	30.28	769.1	30.30	769.6	33	0.6	78	sw.	11	4.9	.....	0	0	.....	.....	inap	inap.	clear	T. S. Townsend.
Denison, Texas	29.63	752.6	30.47	773.9	17.0	— 8.3	100	n.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Byram.
Denver, Colorado	24.61	625.1	30.13	765 3	11.5	—11.4	58	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.46	748.3	30.43	772.9	— 9	—22.8	55	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.67	753.6	30.43	772.9	16.2	— 8.8	83	sw.	8	3.6	.....	0	9 k	.....	nw.	0.01	0.3	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	V. P. Temple.
Dubuque, Iowa	29.68	753 9	30.44	773.2	— 5	—20.6	62	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.54	750.3	30.35	770.9	—11.5	—24.2	65	w.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.51	749 5	30.35	770.9	34.2	1.2	89	nw.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.40	645.1	30.36	771.1	—18	—27.8	72	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	30.00	762.0	30.08	764 0	22.0	— 5.6	88	s.	3	1.3	.....	.....	10n:fg	.....	s.	0.02	0.5	light snow	D. C. Murphy.
Elliott, Fort, Texas	27.39	695.7	30.32	770.1	9	—12.8	41	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
El Paso, Texas	26.34	669.0	30.22	767.6	33.0	0.6	81	se.	4	1.8	.....	.....	10 s	.....	ne.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.60	751.8	30.37	771.4	24	— 4.4	87	w.	16	7.2	.....	.....	10 s	.....	w.	0.05	1.3	cloudy	Peter Wood.
Escanaba, Michigan	29.67	753.6	30.39	771 9	— 2.0	—18.9	65	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	George Heathcote.
Fredericksburg, Texas	28.62	726.9	30.44	773.2	26	— 3.3	88	n.	5	2.2	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	Frank Halwegler.
Galveston, Texas	30.35	770 9	30.40	772.1	38	3.3	82	ne.	18	8.0	.....	.....	10 s	.....	n.	0.03	0.8	cloudy	E. O'C. MacInernay.
Grand Haven, Michigan	29.67	753.6	30.38	771.6	23.0	— 5.0	88	w.	5	2.2	.....	.....	10 ks	.....	w.	0.01	0.3	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.16	639.1	30.06	763.5	37	2.8	53	se.	11	4.9	.....	.....	10 s	.....	.....	c	0	cloudy	Robert O. Lord.
Hatteras, North Carolina	30.29	769.4	30.31	769.9	44	6.7	93	w.	6	2.7	.....	9 k	0	nw.	.....	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.65	651.5	30.08	764.0	— 1	—18.3	100	calm	0	0	.....	.....	10 s	.....	calm	0	0	cloudy	N. C. Smith.
Henrietta, Texas	29.42	747.3	30.49	774.4	16	— 8.9	83	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. P. Sherry.
Huron, Dakota	28.58	725.9	30.12	765.0	— 1	—18.3	44	se.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.67	753.6	30.51	774.9	13	—10.6	70	sw.	3	1.3	.....	0	0	.....	.....	0.16	4.1	clear	J. F. Jirdinston.
Indianola, Texas	30.38	771.6	30.40	772.1	32.0	0.0	100	n.	24	10.7	.....	.....	10 n	.....	n.	0.05	1.3	light rain	I. A. Reed.
Jacksboro, Texas	29.23	742.4	30.17	773 9	23	— 5.0	73	n.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	D. J. Carr.
Jacksonville, Florida	30.28	769.1	30.32	770 1	54	12.2	74	ne.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.41	696.2	30.10	764.5	4	—15.6	76	nw.	3	1.3	.....	.....	10 s	.....	nw.	0	0	cloudy	A. Schneider.
Keokuk, Iowa	29.77	756.1	30.47	773.9	5.5	—14.7	76	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	F. Z. Gosewisch.

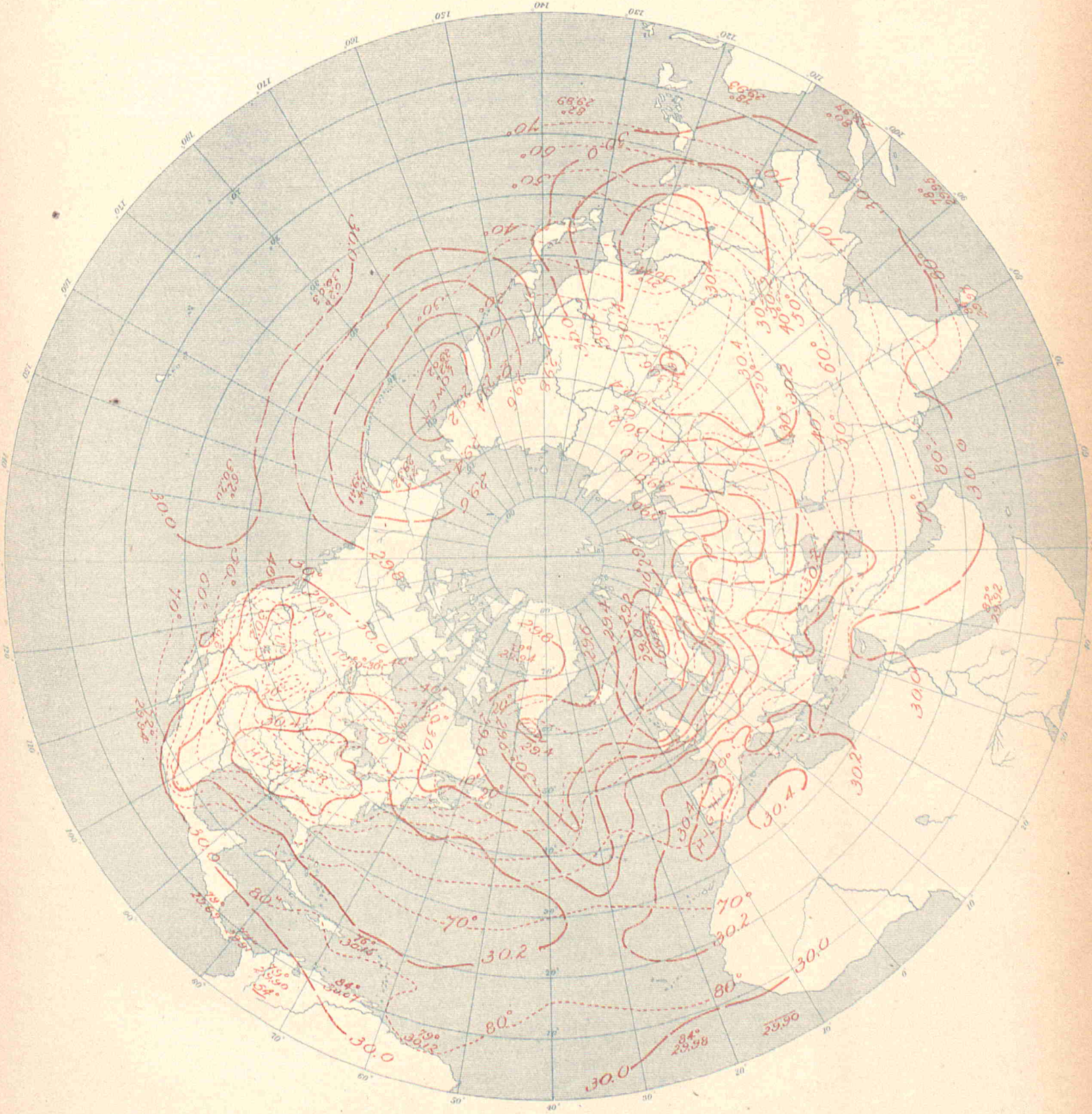
STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.14	765.5	30.16	766.1	68.0	20.0	92	n.	14	6.3			10 8			0	0	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.33	770.4	30.35	770.9	41	5.0	68	n.	9	4.0		10 cs;ck	0	W.		0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.37	746.0	30.45	773.4	34	1.1	87	n.	7	3.1			10 8			0.03	0.8	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.57	751.1	30.41	772.4	— 3	—19.4	65	s.	3	1.3		0	0			c	0	clear	S. C. Emery.
Leavenworth, Kansas	29.48	748.8	30.44	773.2	4	—15.6	72	n.	2	0.9		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.37	746.0	30.24	768.1	14.0	—10.0	89	se.	1	0.4			10 8			0	0	cloudy	W. Bell.
Little Rock, Arkansas	30.20	767.1	30.53	775.4	23	— 5.0	73	ne.	4	1.8		0	0			0.02	0.5	clear	W. U. Simons.
Los Angeles, California	29.44	747.8	29.84	757.9	50	10.0	63	se.	6	2.7			10 n		se.	0.98	24.9	light rain	T. S. Collins.
Louisville, Kentucky	29.93	760.2	30.52	775.2	26	— 3.3	76	w.	4	1.8			10 8			inap.	inap.	cloudy	L. M Dey.
Lynchburg, Virginia	29.61	752.1	30.33	770.4	36.2	2.3	61	sw.	3	1.3		0	2 s		nw.	0.01	0.3	clear	Louis Duane.
Mackinaw City, Michigan	29.64	752.8	30.34	770.6	12.0	—11.1	80	nw.	12	5.4		8 k	0	nw.		0.03	0.8	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.31	769.9	30.32	770.1	43.0	6.1	93	se.	3	1.3			10 8		se.	0	0	cloudy	William Daly.
Madison, Wisconsin	29.32	744.7	30.41	772.4	— 2	—18.9	65	w.	2	0.9		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.35	643.9	29.90	759.4	4	—15.6	52	nw.	16	7.2		0	0			0	0	clear	F. Burke.
McKavett, Fort, Texas	28.06	712.7	30.45	773.4	21	— 6.1	87	calm	0	0			10 8			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.54	750.3	30.32	770.1	0	—17.8	39	w.	12	5.4		0	0			inap.	inap.	clear	J. Gilligan.
Memphis, Tennessee	30.16	766.1	30.52	775.2	25	— 3.9	73	n.	8	3.6			10 8			0	0	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.64	752.8	30.44	773.2	3	—16.1	72	w.	7	3.1		0	0			0	0	clear	W. Line
Missoula, Fort, Montana	26.70	678.2	30.16	766.1	4	—15.6	76	nw.	2	0.9			10 8			0	0	threatening	J. H. Young.
Mobile, Alabama	30.36	771.1	30.40	772.1	42	5.6	87	n.	6	2.7		1 cs	0			0	0	clear	C. A. Read.
Montgomery, Alabama	30.16	766.1	30.40	772.1	40.7	4.8	83	calm	0	0		1 c;hz	1 8	W.		0	0	clear	J. B. McLaughlin
Moorhead, Minnesota	29.14	740.1	30.25	768.3	—12	—24.4	100	s.	8	3.6		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.44	747.8	30.50	774.7	29.0	— 1.7	84	sw.	17	7.6			10 8			0.03	0.8	cloudy	J. O. Sprigg, jr.
Mt. Washington, N. H.	23.40	594.3	30.03	762 7	2.0	—16.7	100	nw.	63	28.2			10n;fg		nw.	0.04	1.0	light snow	S. W. Beall.
Nashville, Tennessee	29.91	759 7	30.52	775.2	28.5	— 1.9	76	nw.	6	2.7			10 ks		n.	0.01	0.3	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.09	764.3	30.21	767.3	27	— 2.8	96	sw.	5	2.2		0	1 8			0.02	0.5	clear	J. H. Sherman.
New London, Connecticut	30.20	767.1	30.25	768.3	30	— 1.1	78	w.	4	1.8		5 k	0	w.		0.13	3.3	fair	J. G. Lynch.
New Orleans, Louisiana	30.34	770.6	30.40	772.1	49.0	9.4	71	ne.	8	3.6		0	7 8		ne.	0	0	fair	L. Dunne.
Newport, Rhode Island	30.14	765.5	30.19	766.8	33.8	1.0	82	w.	12	5.4			10 8		w.	0.06	1.5	cloudy	W. McGillivray.
New York, New York	30.08	764.0	30.27	768.8	31	— 0.6	88	w.	2	0.9		3 cs	4 8	w.	w.	0.02	0.5	fair	J. B. Merrill.
Norfolk, Virginia	30.31	769.9	30.34	770.6	38	3.3	82	w.	2	0.9		0	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.07	687.6	30.19	766.8	5.6	—14 7	78	calm	0	0		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.01	762.2	30.05	763.3	24.0	— 4.4	73	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.11	739.4	30.38	771.6	3.0	—16.1	63	s.	4	1.8		0	0			0	0	clear	A. Pollak.
Oswego, New York	29.88	758.9	30.23	767.8	29.0	— 1.7	67	w.	20	8.9			10 8		w.	0.04	1.0	cloudy	J. G. Linsley.
Palestine, Texas	29.90	759 4	30.48	774.2	23.5	— 4.7	73	ne.	5	2.2		8 ck	0	w.		0.01	0.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.30	771.1	30.39	771.9	43.0	6.1	76	n.	5	2.2		2 cs	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.19	766.8	30.30	769.6	36	2.2	69	sw.	6	2.7		0	fg.			inap.	inap.	clear	T. T. Townsend.
Pike's Peak, Colorado	17.44	443.0	30.14	765.5	0	—17.8	83	nw.	64	28.6		0	0			0	0	clear	H. Hall.
Ploche, Nevada	23.94	608.1	30.14	765.5	17.8	— 7.9	73	w.	1	0.4		10 c	0			inap.	inap.	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.60	751.8	30.45	773.4	21.0	— 6.1	76	nw.	7	3.1		0	0			0.20	5.1	clear	W. A. Reid.
Poplar River, Montana																			W. D. Maxwell.
Port Eads, Louisiana	30.34	770.6	30.35	770.9	51.1	10.6	86	ne.	20	8.9		0	1 8		ne.	0	0	clear	H. B. Boyer.
Port Huron, Michigan	29.68	753.9	30.41	772.4	16.0	— 8.9	84	W	7	3.1		0	8 ks		w.	0.05	1.3	cloudy	W. O. Bailey.
Portland, Maine	30.07	763.8	30.12	765.0	22	— 5.6	73	w.	8	3.6		0	0			inap.	inap.	clear	W. W. Elchelberger.
Portland, Oregon	30.00	762.0	30.07	763.8	25.6	— 3.6	84	n.	3	1.3		3 c	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.																			F. S Coburn.
Prescott, Arizona	24.66	720.4	30.04	763 0	38	3.3	58	s.	1	0.4			10 8		w.	0	0	cloudy	W. H. Clendenon.
Provincetown, Mass	30.13	765.3	30.16	766.1	32.5	0.3	88	w.	12	5.4		0	8 8		w.	0.02	0.5	cloudy	P. T. Jenkins.
Punta Rasa, Florida	30.22	767.6	30.23	767.8	61	16.1	87	ne.	6	2.7		10 cs	0	w.		0	0	cloudy	W. J. Evans.
Red Bluff, California	29.65	753.1	30.02	762.5	36	2.2	69	n.	6	2.7		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.57	751.1	30.28	769.1	19	— 7.2	84	w.	20	8.9		0	5 k		w.	0.02	0.5	fair	E. W. McGann
Roseburg, Oregon	29.51	749.5	30.08	764.0	21	— 6.1	84	calm	0	0		1 cs	0	w.		0	0	clear	J. J. Nairy.
Sacramento, California	29.86	758.4	29.94	760.5	38.0	3.3	82	nw.	10	4.5		0	0			1.27	32.3	clear	J. A. Barwick.
St. Louis, Missouri	29.90	759.4	30.54	775.7	11.1	—11.6	83	w.	4	1.8		0	sk.		calm	0.02	0.5	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.29	744.0	29.32	744.7	21	— 6.1	84	ne.			2		10 8			inap.	inap.	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.38	746.2	30.33	770.4	— 6.0	—21.1	62	se.	2	0.9		1 cs	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.23	742.4	30.21	767.3	—13	—25.0	100	se.	3	1.3			10 n			inap.	inap.	light snow	C. B Dilley.
Salt Lake City, Utah	25.68	652.3	30.28	768.3	21	— 6.1	33	calm	0	0			10 8			0	0	cloudy	J. Craig.
San Antonio, Texas	29.70	754.4	30.43	772.9	29.0	— 1.7	92	n.	7	3.1			10 8			0	0	cloudy	T. J. Kenan.
San Diego, California	29.71	754.6	29.78	756.4	55.1	12.8	39	se	7	3.1			10 8		w.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.75	755.6	30.47	773.9	14	—10.0	73	w.	13	5.8		0	0			0.03	0.8	clear	M. H. Perry.
Sandy Hook, New Jersey	30.23	767.8	30.26	768.6	32.0	0.0	78	w.	12	5.4		1 k	hz.	w.		0.01	0.3	clear	B. A. Blundon.
San Francisco, California	29.84	757.9	29.91	759 7	44.5	6.9	64	ne.	11	4.9		1 k	0	ne.		0.29	7.4	clear	N. Gorom.
Santa Fé, New Mexico	23.21	589.5	30.26	768.6	25	— 3.9	58	calm	0	0		7 c	0	w.		0	0	fair	H. U. Jones.
Savannah, Georgia	30.26	768.6	30.36	771.1	46.5	8.1	60	n.	10	4.5		4 cs	0	sw.		0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.33	668.8	30.19	766.8	3	—16.1	76	w.	2	0.9		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.22	767.6	30.47	773.9	26	— 3.3	88	nw.	6	2.7		3 c	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	29.17	740.9	30.50	774.7	12.5	—10.8	65	n.	4	1.8		1 k	0	sw.		0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.32	617.7	30.18	766.6	31.0	— 0.6	74	calm	0	0			10 8			0	0	cloudy	N. D. Lane.
Sitka, Alaska	29.71	755.1	29.80	756.9	38.6	3.7	77	e.	11	4.9			10 8		e.	0.09	2.3	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	30.00	762.0	30.50	774.7	17.0	— 8.3	83	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.30	769.6	30.34	770.6	42	5.6	82	nw.	4	1.8		9 cs	hz.	sw.		0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.64	712.2	30.18	766.6	15.2	— 9.3	90	nw.	1	0.4			10 8			0	0	cloudy	H. Clifford.
Springfield, Illinois	29.78	756.4	30.51	774.9	8	—13.3	76	sw.	6	2.7		0	0			0.12	3.0	clear	T. B. Jennings.
Springfield, Missouri	28.95	735.3	30.47	773.9	10	—12.2	80	sw.	3	1.3		0	0			0	0	clear	J. H. Bryce.
Starkville, Miss.	29.97	761.2	30.47	773.9	33	0.6	81	nw.	6	2.7			10 8		nw.	inap.	inap.	cloudy	C. Dill.
Stevenson, Fort, Dakota	28.06	712.7	30.12	765.0	4	—15.6	76	e.	2	0.9			10 8			inap.	inap.	cloudy	W. Burrows.
Stockton, Fort, Texas	27.20	690.9	30.34	770.6	26	— 3.3	88	ne.	4	1.8			10 8		ne.	0	0	cloudy	A. J. Warren.
Thatcher's Island, Mass	30.13	765.3	30.19	766.8	29.0	— 1.7	67	w.	15	6.7		8 k	0	w.		0	0	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.24	691.9	30.07	763.8	43	6.1	47	sw.			1	0	0 8			0	0	fair	J. T. Fitzgerald.
Toledo, Ohio	29.69	754.1	30.43	772.9	14	—10.0	80	sw.	8	3.6		0	1 8			0.05	1.3	clear	A. Buell.
Tucson, Arizona	27.46	697.5	29.96	761.0	49	9.4	52	se.	4	1.8			10 8			0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.90	759.4	30.29	769.4	16	— 8.9	91	nw.	7	3.1		4 ck	6 8	nw.	nw.	0	0	cloudy	J. Daly.
Verde, Fort, Arizona					37.9	3.2	64	sw.			1		10 8		sw.	0	0	cloudy	D. Brooks.
Vicksburg, Mississippi	30.21	767.3	30.48	774.2	36.7	2.6	74	n.	6	2.7			10 8			inap.	inap.	cloudy	James Kenealy.
Visalia, California	29.47	748.5	29.86	758.4	39.4	4.1	82	n.	4	1.8			10 8			0.02	0.5	cloudy	O. D. Stewart
Washakie, Fort, Wyoming	24.32	617.7	30.11	764.8	—15.7	—26.5	79	nw	4	1.8		0	4 k			0	0	fair	T. M. Ambler.
Washington, D. C.	30.22	767.6	30.34	770.6	31.5	— 0.3	94	s.	1	0.4		0	2s;fg			0.02	0.5	clear	B. M. Purssell.
West Las Animas, Colorado	26.02	660.9	30.16	766.1	0.5	—17.5	85	nw.	4	1.8		5 cs	0	sw.		0	0	fair	F. H. Brandenburg.
Williamsport, Pa.	29.65	753.9	30.30	769.6	31	— 0.6	88	nw.	6	2.7			10 ks		nw.	0.07	1.8	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.28	769.1	30.34	770.6	44	6.7	83	nw.	4	1.8			10 8		w.	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.58	649.7	30.12	765.0	9	—12.8	69	ne.	7	3.1		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.74	730.0	30.16	766.1	2	—16.7	72	e	7	3.1		0	0			0	0	clear	J. H. Attield.
Yuma, Arizona	29.73	755.1	29.88	758.9	45.8	7.7	58	ne.	2	0.9			10 8		s.	0	0	cloudy	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			54.0	12.2	76	n.	3	1.3			7 ns		nw.	0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.06	763.5	30.07	763 8	78	25.6	71	e.	2	0.9		9 cs	0			0	0	fair	Robert Johnston.
Paramaribo, S. A.	30.12	765.0	30.12	765.0	79	26.1	82	se.			2	4 c	3 8	c.		0.130	3.3		Dr. C. J. Hering.
Puerto Berrio, U. S. Colombia	29.34	745.2	29.90	759.4	79	26.1	89	calm			0		10 ks		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					76.2	24.6	92	ne.			4	0	1 ks		ne.	0.09	2.3	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.35	745.5	29.41	747.0	34	1.1	78	sw.			2		6 ks			0.18	4.6	fair	W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe
York Factory B. A.	30.07	763.8	30.14	765.5	43.0	6.1		w.	10	4.5		0	0			0	0	hazy	Fortescue & Wood

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Force.	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from	
British Naval.																		
H. M. S. Amethyst, S. 38° 00′, W. 56° 53′†	30.17	766.3	65	18.3	86	nne.			1–2		2	ne.						misty.
H. M. S. Audacious, Lubuan Island, Borneo	29.83	757.7	78	25.6	86	nw.			5		10	w.						raining.
H. M. S. Boadicea, Simons Bay, Cape Colony	29.91	759.7				ese.			1–3		1							blue sky.
H. M. S. Carysfort, N. 29° 56′, E. 32° 33′	30.03	762.7	68	20.0	74	nw.			3–4		3	nw.						squally.
H. M. S. Champion, Singapore, Malay peninsula	29.97	761.2	80	26.7	95	ne.			2		9					1	ne.	d. clouds.
H. M. S. Cleopatra, N. 31° 15′ E. 121° 29′	30.52	775.2	32	0.0		n.			1		0							blue sky'
H. M. S. Comus, N. 40° 09′, W. 124° 40′	29.96	761.0	49	9.4	93	calm			0		0					2	nnw.	blue sky.
H. M. S. Candor, N. 31° 35′, E. 31° 55′	30.04	763.0	65.5	18.6	70	nw.			4–5		4	nw.				5	nw.	d. clouds.
H. M. S. Constance, N. 25° 19′, W. 21° 34′	30.28	769.1	71	21.7		ese.			3		0					3	ese.	blue sky.
H. M. S. Curacoa, Yokohama, Japan			41.5	5.3	75	n.			2		5	n.						d. clouds.
H. M. S. Diamond, Sydney, N. S. W.	29.94	760.5	66	18.9	79	se.			1		0							blue sky.
H. M. Dock Yard, Bermuda, W. I.	30.30	769.6	60.5	15.8	73	ssw.			1		7	ssw.						d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.34	770.6	39	3.9	81	calm			0		2							blue sky.
H. M. S. Gannet, S. 36° 45′, W. 73° 35′	29.87	758.7	57.5	14.2	93	calm			0		10					3	sw.	drizzling.
H. M. S. Iron Duke, N. 6° 56′, E. 79° 59′	29.97	761.2	84	28.9	83	nnw.			2–3		10					2	n.	d. clouds.
H. M. S. Lark, S. 34° 43′, E. 159° 40′	30.18	766.6	68.3	20.2	92	sse.			4		6					2	n.	d. clouds.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.19	766.8	42.7	5.9	74	nw.			1		2							misty.
H. M. S. Mutine, S. 6° 38′, W. 98° 58′	30.01	762.2	65	18.3	68	nw.			3–4		3							squally.
H. M. S. Rocket, Valparaiso, Chili	29.94	760.5	71.5	21.9		se.			4		8					2	se.	d. clouds.
H. M. S. Serapis, N. 14° 30′, E. 42° 30′	29.96	761.0	62	16.7	100	n.			1		5							misty.
H. M. S. Superb N. 36° 45′, E. 35° 45′	29.92	760.0	81.5	27.5	66	sse.			5		6					5	sse.	misty.
H. M. S. Swiftsure, Callao, Peru	29.99	761.7	65	18.3	59	calm			0		4	w.						d. clouds.
H. M. S. Sylvia, Cape Providence, Patagonia	29.95	760.7	67	19.4	94	calm			0		8							d. clouds.
H. M. S. Tourmaline, Bombay, India	29.60	751.8	49.7	9.8	67	nw.			4–6		8	ese.				3	s.	d. clouds.
H. M. S. Woodlark, Bassorah, Turkey in Asia	29.97	761.2				wsw.			1		0							squally.
H. M. S. Zephyr, N. 37° 33′, E. 121° 25′	30.05	763.3	60.5	15.8	60	sse.			1–2		2	se.						blue sky.
Portuguese Naval.	30.43	772.9	30	— 1.1		calm			0		0							blue sky.
Tamega, Macao, China																sm'h		blue sky.
Swedish Naval.	30.31	769.9	54.5	12.5	48	n.			2		0							blue sky.
Vanadis, N. 32° 21′, E. 25° 47′																		
United States Naval.	30.14	765.5	63.0	17.2	80	w.			5		9							overcast.
Navy Yard, Pensacola, Fla*	30.40	772.1	44	6.7	84	ne.	2	0.9			8		ne.	0	0			fair.
Navy Yard, Portsmouth, N. H*	30.14	765.5	20	— 6.7	?	nw.	11	4.9			2		nw.	0	0			fair.
Naval Hospital, Yokohama, Japan*	29.84	757.9	37	2.8	48	n.			3		8		ne.	0.12	3.0			cloudy.
Adams, Sitka, Alaska†	29.82	757.4	38	3.3	71	ene.			1		10							cloudy.
Alaska, Mare Island, Cal	29.83	757.7	41	5.0	91	calm			0		10		e.	0	0			cloudy.
Alliance, St. John's, Antigua, W. I	30.14	765.5	79	26.1	90	e.			1–2		5			0	0	sm'h		fair.
Ashuelot, Shanghai, China	30.55	776.0	35	1.7	79	nw.			1		0							clear.
Brooklyn, Montevideo, Uruguay*	29.96	761.0	69	20.6	84	ese.	13	5.8			2		se.	0	0	sm'h		fair.
Colorado, New York, N. Y	30.33	770 4	32	0.0	89	nw.	2	0.9			0			0	0			clear.
Enterprise, Lynn Haven Bay, Va*	30.29	769.4	42	5.6	83	wnw.			2		2		calm			sm'h		clear.
Essex, Callao, Peru	29.92	760.0	67	19.4	90	calm			0		10							overcast
Franklin, Norfolk, Va	30.31	769.9	38	3.3	80	calm	0	0			0			0	0			clear.
Galena, Montevideo, Uruguay*	29.98	761.5	68	20.0	84	ese.			4		2		se.			mod.	se.	hazy.
Hartford, Valparaiso, Chili*	29.86	758.4	64	17.8	94	nw.			1		10					sm'h		cloudy.
Independence, Mare Island, Cal	29.96	761.0	41	5.0	100	calm			0		2			0.13	3.3			clear.
Iroquois, Callao, Peru	29.94	760.5	66	18.9	94	calm			0		10							overcast
Jamestown, Boston, Mass	30.13	765.3	26	— 3.3	100	sw.			1		10							cloudy.
Juniata, Horta, Azores Islands*	29.68	753.9	64	17.8	94	sse.			10		10		s.	h'vy	h'vy	r'gh	var.	overcast.
Kearsarge, St. Lucia Island, W. I	30.14	765.5	80	26.7	86	ene.			3		5		e.					fair.
Lackawanna, S. 2° 34′, W. 112° 16′*	29.86	758.4	72	22.2	90	sse.			3		5		se.			sm'h	se.	fair.
Lancaster, Genoa, Italy	30.18	766.6	59	15.0	100	se.			2		10		calm					light rain.
Michigan, Erie, Pennsylvania	30.34	770.6	23	— 5.0	72	sw.			4		10		sw.					snowing.
Minnesota, New York, N. Y	30.28	769.1	30	— 1.1	100	wsw.	2	0.9			0							fair.?
Monocacy, Nagasaki, Japan	30.33	770 4	41	5.0	83	nnw.			2		0							clear.
New Hampshire, Newport, R. I	30.16	766.1	33	0.6	90	w.			3		5					sm'h		fair.
Nipsic, Lisbon, Portugal	30.47	773.9	58	14.4	93	ene.			1		10							foggy.
Onward, Callao, Peru*†	30.04	763.0	67	19.4	90	calm			0		10							cloudy.
Palos, Tientsin, China*	30.34	770.6	27	— 2.8	77	nw.			1		0							clear.
Pensacola, Panama, U. S. C*	29.81	757.2	77	25.0	95	nw.	3	1.3			10		nw.	0	0	sm'h		cloudy.
Powhatan, Boston, Mass	30.15	765.8	25	— 3.9	100	w.			2		10							cloudy.
Quinnebaug, Genoa, Italy	30.19	766.8	57	13.9	87	ese.			2		10		ese.					rainy.
Ranger, N. 19° 39′, W. 108° 15′*	29.94	760.5	72	22.2	80	nw.			1		2		calm	0	0	sm'h		fair.
Richmond, Hong-Kong, China*	30.23	767.8	55	12.8	55	ssw.			1		0			0	0			clear.
Saratoga, New York, N. Y	30.23	767.8	32	0.0	79	se.			1		1		se.	0	0			clear.
St. Louis, League Island, Pa	30.28	769.1	29	— 1.7	?	wsw.			2		5		nw.	0	0			foggy.
Tennessee, Fort de France, Matinique, W. I.*	30.14	765.5	87	30.6	75	ne.	5	2.2			2			0	0			clear.
Vandalia, St. Thomas, W. I*	30.15	765.8	79	26.1	70	e.			2		2							fair.
Wabash, Boston, Mass	30.12	765.0	27	— 2.8	77	wsw.	3	1.3			10		w.	0	0			cloudy.
Wachusetts, Mare Island, Cal	30.04	763.0	42	5.6	91	wnw.			1		1		calm					clear.
Wyandotte, Washington, D. C	30.36	771.6	42	5.6	100	nw.			3		0			0.1	3.			clear.
Yantic, St. Vincent, W. I	30.14	765.5	78	25.6	82	ne.			3		5		ne.					fair.
Merchant Marine.																		
S. S. Grecian, Glasgow, Scotland			45	7.2	92	nnw.			1		9		n.	0	0			cloudy.
S. S. Nova Scotian, Halifax, N. S	29.97	761.2	25	— 3.9		wsw.			2		10		w.			sm'h		snowing.
S. S. Polynesian, N. 52° 38′, W., 34° 32′*	29.49	749.0	42	5.6		sse.			6		10		sw.	0	0	mod.	wsw.	overcast.
S. S. British Crown, Liverpoo., Eng†	29.45	748.0	48	8.9		wsw.			6		9		wsw.	14 h'r	14 h'r	sm'h		squally.
S. S. British Prince, N. 41° 55′ W. 65° 25′ †	30.10	764.5	30	— 1.1		wnw.			6		10		wnw.	snow	snow	mod.	wnw.	snowy.
S. S. Indiana, N 49° 04′, W. 38° 34′			34	1.1	90	wnw.			5		8		nw.			mod	nw.	cloudy.
S. S. Lord Gough, Philadelphia, Pa	30 31	769.9	32	0.0		sw.			2		2			0	0			clear.
S. S. Ohio, N. 50° 02′ W. 34° 23′†	29.46	748.3	49	9.4	93	s.			5		10					mod.	wsw.	raining.
S. S. Pennsylvania, Liverpool, Engl	29.48	748.8	47	8.3	85	w.			4		4?		sw.	0	0			cloudy.
S. S. Anchoria, N. 49° 50′, W. 37° 33′	29,66	753.4				w.			4		1		w.	0	0	slt	wnw.	
S. S. Bolivia, New York, N. Y	30.26	768.6	32	0.0	100	w.			3		0			snow	snow			
S. S. Dorian, Naples, Italy*	30.05	763.3				var.								0	0			clear.
S. S. Utopia, N. 32° 55′, W. 42° 29′†	30.34	770.6	65	18.3	100	nw.			6		5		nw.	8 h'r	8 h'r	cf'd	w.	fine.
S. S. Ailsa, N. 28° 32′, W. 74° 12′†	30.40	772.1	70	21.1	90	ene.			5		10		ene.	0	0	mod.	ene.	cloudy.
S. S. Antillas, St John, Puerto Rico, W. I†	30.20	767.1				ne.			3		2		ene.	0	0	mod.	ne.	clear.
S. S. Ambrose, Para, Brazil	30.08	764 0	83	28.3		calm			0					2 h'r	2 h'r			fine.
S. S. Carroll, Halifax, N. S*†	30.20	767.1	32	0.0		var.			1		10			snow	snow			heavy snow
S. S. Landaff City, N. 46° 10′, W. 36° 50′ *†	29.55	750.6				nnw.			7		10		nw.	0	0		nw.	cloudy.
S. S. Auckland, S. 51° 19′, W. 121° 42′	29.50	749.3	49	9.4	78	w.			3		8							overcast.
S. S. Caldew, S. 15° 24′, E. 89° 59′	30.03	762.7	78	25.6	77	se.			4		4							d clouds.
S. S. City of Agra, S. 53° 00′, W. 115° 10′	29.43	747.5	46	7.8	100	nw.			5		10							overcast.
S. S. Commewyne, N. 47° 51′, W. 21° 28′	30.06	763.5	54.2	12.3	80	s.			4		4							d. clouds.
S. S. Gordon Castle, N. 29° 30′, E. 32° 36′	30.04	763.0	68.5	20.3	61	nnw.			3		5							d. clouds.
Inchkeith, N. 0° 23′, E. 91° 26′	29.95	760.7	78.0	25.6	95	nw.			3		8							d. clouds.
St. Kilda, N. 18° 15′ W. 60° 50′	30.26	768.6	76.5	24.7	82	e.			5		1							blue sky.
S. S. Scotia, N. 49° 34′ W. 4° 22′	29.84	757.9	51.4	10.8	79	wsw.			8		8							d. clouds.
S. S. Lake Huron, N. 43° 08′, W. 55° 12′*	30.04	763.0	32	0.0		var.			1		1		w.	0	0	sm'h		clear.
S. S. Bothnia, N. 48° 39′, W. 31° 40′	29.62	752.3	50	10.0	86	se.			4		10			4 h'r	4 h'r	mod.	nw.	showery.
S. S. Pavonia, N. 51° 04′, W. 18° 07′	29.89	759.2	51	10.6	72	w.			7		2		w.	3 h'r	3 h'r	hy'y	w.	fair.
S. S. Colina, St. John's, N. F†	29.80	756.9				w.			2		2		w.	0	0	sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
							Miles p. hr.	Mtrs. p. sec		Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.			0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																		
S. S. Rhiwlndda, N. 42° 56′, W. 60° 50′	.....	.....	.....	.....	.....	wnw.	.....	.....	6	.....	8	.....	w.	snow	snow	chop	w.	
S. S. Abyssinia, N. 51° 26′, W. 12° 44′	29.83	757.7	50	10.0	86	w.	.....	.....	9	.....	8	.....	w.	2 h'r	2 h'r	h'vy	w.	squally.
S. S. Wyoming, New York, N. Y.	30.27	768.8	27	— 2.8	.....	nnw.	.....	.....	2	.....	3	.....	nw.	2 h'r	2 h'r	.....	.....	fair.
S. S. Bohemia, Hamburg, Germany	.....	.....	.....	.....	.....	se.	.....	.....	4	.....	8	.....	nw.	o	o	.....	.....	
S. S. Silesia, New York, N. Y†	30.29	769.4	30	—1.1	.....	calm	.....	.....	0	.....	4	.....	.....	snow	snow	.....	.....	cloudy.?
S. S. Vandalia, N. 48° 00′, W. 30° 00′	29.86	758.4	54.7	12.6	.....	ese.	.....	.....	6	.....	10	.....	ese.	.....	.....	cross	se.	stormy.
S. S. Wieland, N. 49° 44′, W. 8° 19′	29.99	761.7	.....	.....	.....	nw.	.....	.....	6	.....	2	.....	nw.	24 h'r	24 h'r	high	nw.	clear.
S. S. Mentmore, N. 50° 54′, W. 24° 43′*	29.92	760.0	.....	.....	.....	sw.	.....	.....	5	.....	2	.....	wsw.	o	o	h'vy	wsw.	clear.
S. S. Archimedes, N 11° 38′, W 27° 17′	29.94	760.5	.....	.....	.....	nne.	.....	.....	4	.....	2	.....	se.	o	o	mod.	n.	clear.
S. S. Hevelius, Liverpool, Eng †.	29.66	753.4	48	8.9	.....	sw.	.....	.....	6	.....	3	.....	sw.	14 h'r	14 h'r	.....	.....	clear.
S. S. Sirius, S. 16° 00′, W. 37° 30′*	30.00	762.0	.....	.....	.....	n.	.....	.....	1	.....	1	.....	n.	o	o	mod.	s.	clear.
S. S. Bulgarian, N. 43° 34′ W. 57° 52′ *	30.26	768.6	.....	.....	.....	wsw.	.....	.....	4	.....	10	.....	w.	2 h'r	2 h'r	sli't	w.	overcast.
S. S. Virginian, N. 49° 05′, W. 30° 30′*	29.62	752.3	49	9.4	.....	se.	.....	.....	6	.....	10	.....	ssw.	2 h'r	2 h'r	h'vy	wnw.	raining.
S. S. Colorado, Galveston, Texas†	30.40	772.1	35	1.7	.....	ne.	.....	.....	4	.....	8	.....	ne.	o	o	.....	.....	fair.
S. S. Rio Grande, N. 26° 27′, W 76° 40′†	30.17	766.3	78	25.6	.....	ne.	.....	.....	3	.....	9	.....	ne.	o	o	long	nne.	overcast.
S. S. San Marcos, Galveston, Texas	.....	.....	45	7.2	.....	n.	.....	.....	5	.....	.....	.....	nne.	o	o	.....	.....	cloudy.
S. S. Archimede, Marseilles, France †	30.18	766.6	60	15.6	71	nw.	.....	.....	2	.....	3	.....	nw.	o	o	.....	.....	clear.
S. S. Hermod, N. 49° 37′, W. 18° 52′ †	30.02	762.5	52	11.1	.....	w.	.....	.....	2	.....	2	.....	w.	4 h'r	4 h'r	long	w.	clearing.
S. S. Alleghany, Boston, Mass†	30.08	764.0	24	— 4.4	.....	nw.	.....	.....	3	.....	9?	.....	.....	o	o	.....	.....	fair?
S. S. Glenfyne, N. 7° 50′, W. 50° 07′	.....	.....	.....	.....	.....	ene.	.....	.....	5	.....	5	.....	ene.	o	o	cross	e.	fair.
S. S. Brooklyn, Portland, Maine *	30.04	763.0	24	—4.4	.....	nw.	.....	.....	2	.....	.....	.....	nw.	o	o	.....	.....	clear.
S. S. Chalmette, N. 30° 11′, W. 80° 35′†	30.27	768.8	61	16.1	.....	n.	.....	.....	4	.....	10	.....	ne.	1 h'r	1 h'r	mod.	ne.	cloudy.
S. S. Lone Star, N. 24° 55′, W. 83° 38′†	30.16	766.1	71	21.7	.....	ene.	.....	.....	4	.....	6	.....	ene.	8 h'r	8 h'r	mod.	ene.	clearing.
S. S. New York, N. 26° 00′ W. 84° 00′†	30.27	768.8	72	22.2	.....	e.	.....	.....	6	.....	10	.....	e.	o	o	r'gh	e.	cloudy.
S. S. Denmark, New York, N. Y †	30.19	766.8	31	—0.6	.....	w.	.....	.....	2	.....	0	.....	.....	snow	snow	.....	.....	clear.
S. S. England, N. 41° 36′, W. 55° 19′	30.21	767.3	.....	.....	.....	e.	.....	.....	2	.....	0	.....	.....	o	o	sm'h	.....	
S. S. Erin, Liverpool, Eng	.....	.....	38	3.3	.....	nw.	.....	.....	4	.....	8	.....	w.	o	o	.....	.....	
S. S. Helvetia, New York, N. Y	30.23	767.8	33	0.6	.....	nw.	.....	.....	1	.....	5	.....	w.	snow	snow	.....	.....	fine.
S. S. The Queen, N. 40° 57′, W. 68° 24′	30.19	766.8	33	0.6	.....	wnw.	.....	.....	4	.....	2	.....	w.	o	o	sm'h	.....	clear.
S. S. City of Alexandria, Vera Cruz, Mexico†	30.15	765.8	67	19.4	84	n.	.....	.....	7	.....	8?	.....	n.	o	o	r'gh	n.	clear?
S. S. City of Washington, N. 23° 09′, W. 82° 23′ †	30.18	766.6	70	21.1	.....	se.	.....	.....	2	.....	8	.....	se.	o	o	sm'h	.....	fine.
S. S. Alps, N. 15° 30′, W. 76° 30′	30.05	763.3	83	28.3	.....	nne.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	ne.	clear.
S. S. Alene, N. 29° 25′, W. 74° 12′†	30.25	768.3	67	19.4	.....	se.	.....	.....	3	.....	.....	.....	.....	.....	.....	mod.	.....	fair.
S. S. Braunschweig, S. 20° 58′, W. 38° 31′	30.03	762.7	80.0	26.7	78	sse.	.....	.....	2–3	.....	8	.....	se.	3 h'r	3 h'r	3	se.	fair.
S. S. Donau, N. 44° 49′. W. 43° 47′	29.99	761.7	.....	.....	.....	wnw.	.....	.....	6	.....	8	.....	wnw.	rain	rain	cross	wnw.	squally.
S. S. Salier, Brouwershaven, Netherlands	29.60	751.8	50	10.0	.....	wsw.	.....	.....	5	.....	10	.....	wsw.	8 h'r	8 h'r	.....	.....	cloudy.
S. S. Strassburg, S. 29° 40′, W. 49° 51′	29.96	761.0	75.0	23.9	90	n.	.....	.....	3–4	.....	3	.....	n.	o	o	sm'h	n.	clear.
S. S. Werra, N. 45° 29′, W. 50° 37′	30.10	764.5	33.8	1.0	.....	wnw.	.....	.....	4–5	.....	10	.....	wnw.	snow	snow	mod.	wnw.	cloudy.
S. S. Belgic, N. 35° 49′, W. 145° 09′ *†	30.20	767.1	62	16.7	72	wnw.	.....	.....	2	.....	5	.....	nw.	o	o	mod.	nw.	fair.
S. S. Gaelic, N. 34° 55′, E. 176° 35′	30.03	762.7	62	16.7	100	s.	.....	.....	0	.....	6	.....	sw.	o	o	.....	sw.	squally.
S. S. Oceanic, N. 41° 40′, E. 153° 00′*	29.55	750.6	30	—1.1	89	nw.	.....	.....	0	.....	6?	.....	wnw.	.....	.....	mod.	wnw.	clear?
S. S. City of Augusta, Tybee Roads, Ga †	30.39	771.9	.....	.....	.....	nne.	.....	.....	3	.....	4	.....	.....	o	o	.....	.....	clear.
S. S. Mississippi, Seattle, Wash. Ter*†	30.09	764.3	34	1.1	.....	se.	.....	.....	1	.....	8	.....	s.	.....	.....	.....	.....	fair.
S. S. Willamette, Seattle, Wash. Ter.†	30.10	764.5	33	0.5	90	e.	.....	.....	1	.....	6	.....	ese.	o	o	.....	.....	foggy.
S. S. Oregon, San Francisco, Cal†	29.85	758.2	49	9.4	93	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Ancon, San Francisco, Calf	29.82	757.4	45	7.2	68	e.	.....	.....	3	.....	2	.....	se.	.....	.....	.....	.....	fair.
S. S. City of Chester, San Francisco, Cal*†	29.89	759.2	45	7.2	61	se.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Dakota, N. 38° 00′, W. 122° 30′ *†	30.00	762.0	47	8.3	77	nw.	.....	.....	0	.....	5?	.....	nw.	o	o	mod.	nw.	clear.?
S. S. G. W. Elder, N. 48° 00′, W. 124° 50′†	30.13	765.3	48?	8.97	78	w.	.....	.....	1	.....	1	.....	.....	o	o	sm'h	.....	clear.
S. S. Orizaba, N. 32° 40′, W. 117° 14′ *†	29.72	754.9	58	14.4	76	se.	.....	.....	6	.....	.....	.....	se.	4 h'r	4 h'r	r'gh	sse.	cloudy.
S. S. State of California, Portland, Oregon†	30.15	765.8	24	—4.4	87	calm	.....	.....	0	.....	6?	.....	.....	o	o	.....	.....	overcast.?
S. S. Victoria, off Cape Mendocino, Cal*†	30.10	764.5	45	7.2	.....	e.	.....	.....	3	.....	5	.....	nne.	.....	.....	light	e.	fair.
S. S. City of New York, S. 35° 58′, E. 174° 53′†	30.12	765.0	75	23.9	72	nne.	.....	.....	3	.....	6	.....	.....	o	o	mod.	ne.	clear.
S. S. City of Sydney, N. 9° 21′, W. 168° 15′†	29.85	758.2	82	27.8	83	nne.	.....	.....	1	.....	8	.....	ne.	o	o	long	ne.	cloudy.
S. S. City of Tokei, N. 27° 49′, E. 124° 04′†	30.36	771.1	48	8.9	93	nnw.	.....	.....	7	.....	8?	.....	nnw.	o	o	h'vy	nnw.	clear?
S. S. Colima, Punta Arenas, Costa Rico†	29.89	759.2	79	26.1	100	s.	.....	.....	3	.....	2	.....	calm	0.02	0.5	.....	.....	clear.
S. S. Grenada, N. 30° 34′, W. 118° 25′†	29.71	754.6	60	15.6	76	ssw.	.....	.....	3	.....	0	.....	.....	8 h'r	8 h'r	large	ssw.	clear.
S. S. San José, N. 7° 30′, W. 79° 55′*†	29.86	758.4	.....	.....	.....	n.	.....	.....	3	.....	5 8?	.....	nne.	o	o	short	nne.	overcast?
S. S. Zealandia, Sydney, N. S. W*.	30.18	766.6	70	21.1	75	se.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	fine.
S. S. Muriel, N. 32° 09′, W. 69° 40′ *	30.35	770.9	65	18.3	.....	sw.	.....	.....	2	.....	2	.....	.....	o	o	mod.	ne.	fair.
S. S. Valencia, La Guayra, Venezuela†	30.07	763.8	84	28.9	71	calm	.....	.....	0	.....	0	.....	.....	o	o	h'v'y	ne.	fine.
S. S. Belgenland, N. 48° 15′, W. 18° 15′†	30.11	764.8	53	11.7	93	wsw.	.....	.....	4	.....	8	.....	ssw.	o	o	long	wsw.	squally.
S. S. Nederland, N. 46° 13′, W. 51° 55′	.....	.....	28	—2.2	.....	w.	.....	.....	5	.....	10	.....	w.	snow	snow	short	w.	squally.
S. S. Pennland, Antwerp, Belgium	29.84	757.9	50	10.0	86	wsw.	.....	.....	5	.....	4	.....	wsw.	12 h'r	12 h'r	.....	.....	fine.
S. S. Rhynland, N. 50° 05′, W. 13° 30′	29.94	760.5	50	10.0	93	wnw.	.....	.....	8	.....	3	.....	wnw.	4 h'r	4 h'r	high	wnw.	squally.
S. S. Switzerland, N. 43° 12′ W. 56° 54′†	30.13	765.3	.....	.....	.....	sw.	.....	.....	1	.....	10	.....	sw.	o	o	mod.	w.	cloudy.
S. S. Waesland, Jersey City, N. J	30.20	768.6	34	1.1	.....	w.	.....	.....	3	.....	5	.....	w.	0.04	1.0	.....	.....	fair.
S. S. Maas, New York, N. Y.	30.24	768.1	33.1	0.6	.....	wnw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	foggy.
S. S. Schiedam, N 49° 47′ W. 7° 23′	29.88	758.9	54.3	12.4	90	w.	.....	.....	8–9	.....	7	.....	nw.	4 h'r	4 h'r	h'vy	w.	rainy.
S. S. W. A. Scholten, N. 48° 23′, W. 33° 45′	29.75	755.6	47.2	8.4	92	n.	.....	.....	2	.....	10	.....	nw.	5 h'r	5 h'r	long	nw.	rainy.
S. S. State of Florida, Glasgow, Scotland	29.21	741.9	45	7.2	.....	s.	.....	.....	5	.....	8	.....	sse.	18 h'r	18 h'r	.....	.....	overcast.
S. S. State of Georgia, N. 47° 39′, W. 44° 22′ †	29.86	758.4	27	—2.8	.....	wnw.	.....	.....	7	.....	8	.....	wnw.	snow	snow	mod.	nw.	snowy.
S. S. Iowa, N. 42° 25′, W. 69° 48′*†	30.20	767.1	33	0.6	.....	wsw.	.....	.....	5	.....	5	.....	wsw.	snow	snow	sm'h	wsw.	fair.
S. S. Baltic, N. 42° 27′, W. 53° 04′*	30.20	767.1	39	3.9	73	nw.	.....	.....	2	.....	9	.....	nw.	o	o	mod.	var.	d. clouds.
S. S. Romano, N. 48° 48′, W. 5° 46′ *†	29.90	759.4	51	10.6	.....	wnw.	.....	.....	7	.....	7	.....	wnw.	4 h'r	4 h'r	h'vy	w.	squally.
S. S. Salerno, N. 48° 51′, W. 35° 21′	.....	.....	44	6.7	.....	nw.	.....	.....	6	.....	10	.....	nw.	2 h'r	2 h'r	h'vy	nw.	raining.
S. S. Catherine Whiting, Philadelphia, Pa†	30.31	769.9	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	o	o	.....	.....	
S. S. Norman, N. 39° 59′, W. 75° 08′ †	30.29	769.4	.....	.....	.....	wsw.	.....	.....	1	.....	0	.....	.....	3 h'r	3 h'r	.....	.....	clear.
S. S. Saxon, Philadelphia, Pa†	30.29	769.4	48	8.9	.....	wsw.	.....	.....	2	.....	0	.....	.....	o	o	.....	.....	fine.
MISCELLANEOUS																		
Bk. Adelaide, N. 16° 38′, W. 36° 08′*†	30.21	767.3	77	25.0	.....	ene.	.....	.....	5	.....	1	.....	e.	o	o	short	ene.	clear.
Bk. Alpha, N. 15° 15′, W. 38° 00′ *†	30.10	764.5	82	27.8	.....	ene.	.....	.....	5	.....	3	.....	ene.	o	o	long	nne.	clear.
Schr. Anna A. Holton, N. 22° 25′, W. 96° 12′†	30.17	766.3	70	21.1	.....	nw.	.....	.....	8	.....	10	.....	nw.	6 h'r	6 h'r	r'gh	nw.	drizzling.
Bk. Anna Thormann, S. 35° 09′, E. 18° 44′*	30.10	764.5	64.9	18.3	62	ssw.	.....	.....	2	.....	2 k	.....	w.	o	o	high	ssw.	clear.
S. S. Antonio Lopez, Cadiz, Spain	30.36	771.1	70	21.1	61	n.	.....	.....	2	.....	2	.....	.....	o	o	.....	.....	hazy
Bk. Aquidneck, N. 18° 45′, W. 58° 59′*†	30.30	769.6	86	30.0	.....	ne.	.....	.....	4	.....	1	.....	ne.	o	o	h'vy	ne.	clear.
Bgt. Arthur, N. 3° 00′, W. 14° 32′*†	30.00	762 0	.....	.....	.....	var.	.....	.....	1	.....	.....	.....	var.	4 h'r	4 h'r	mod	var.	threatening.
Bk. B. F. Watson, N. 14° 28′, E. 134° 52′†	29.89	759.2	82	27.8	.....	ese.	.....	.....	3	.....	1	.....	.....	o	o	mod.	.....	clear.
Bg. Belle of the Bay, Galveston, Texas†	30.33	770.4	.....	.....	.....	n.	.....	.....	0	.....	9	.....	n.	o	o	.....	.....	threatening.
Bk. Bremen, N. 51° 37′, E. 1° 46′*	29.99	754.1	.....	.....	.....	sw.	.....	.....	6	.....	2	.....	sw.	o	o	mod.	sw.	hazy.
S. S. Burswell, N. 35° 00′, W. 66° 31′*†	30.28	769.1	66	18.9	.....	sw.	.....	.....	3	.....	7	.....	wsw.	o	o	sli't	ne.	fair.
Bk. Champion, Delaware Breakwater, Del	.....	.....	39	3.9	.....	nnw.	.....	.....	4	.....	2	.....	nw.	8 h'r	8 h'r	.....	.....	fair.
Bk. Commerce, N. 39° 06′, W. 60° 12′†	30.14	765.5	51	10.6	.....	sw.	.....	.....	3	.....	8	.....	sw.	6 h'r	6 h'r	cross	var.	clearing.
Bk. E. D. Bigelow, N. 48° 23′, W. 5° 52′ *†	29.95	760.7	.....	.....	.....	wsw.	.....	.....	9	.....	2	.....	wsw.	o	o	cross	w.	squally.
Schr. Edith R. Seward, Wilmington, N. C†	30.35	770.9	52	11.1	.....	calm	.....	.....	0	.....	2	.....	n.	o	o	.....	.....	clear.
Bk. Edmund Phinney, N. 16° 08′, W. 36° 48′†	30.17	766.3	76	24.4	.....	ese	.....	.....	.....	.....	5	.....	ese.	o	o	cross	var.	fair.
S. E. J. Spicer, Liverpool, Eng	29.65	753.1	54	12.2	100	sw.	.....	.....	5	.....	5	.....	sw.	12 h'r	12 h'r	.....	.....	fair.
Bk. E. L. Pettingill, S. 18° 44′, W. 122° 32′ *†	30.10	764.5	80	26.7	.....	nnw.	.....	.....	2	.....	2	.....	ne.	o	o	sm'h	ssw.	
Bk. Essex, S. 13° 44′, E. 45° 55′ *†	29.92	760.0	89	31.7	.....	ssw.	.....	.....	3	.....	.....	.....	.....	o	o	.....	e.	fine.
Schr. F. E. McDonald, N. 36° 48′, W. 75° 25′†	30.31	769.9	39	3.9	.....	n.	.....	.....	4	.....	2	.....	.....	o	o	mod.	e.	fine.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†	30.31	769.9	39	3.9	82	calm	.....	.....	0	.....	2	.....	calm	.....	.....	.....	.....	clear.
S. S. Foscolin, N. 48° 45′, W. 16° 48′	.....	.....	.....	.....	.....	wsw.	.....	.....	7	.....	1	.....	wsw.	o	o	.....	cross	clear.
Bk. Freya, Matanzas, Cuba. W. I.*†	29.63	752.6	72	22.2	.....	ne.	.....	.....	1	.....	1	.....	ne.	o	o	.....	.....	clear.
S. George Stetson, N. 24° —′, W. 34° —′ *†	30.10	760.1	78	25.6	78	ssw.	.....	.....	2	.....	1	.....	ne.	o	o	sm'h	ne.	clear.
Bk. Gronsvaer, Auckland, N. Z	30.10	764.5	76.0	24.4	.....	ne.	.....	.....	2	.....	3	.....	ne.	o	o	.....	.....	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr. / Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																	
Schr. Hattie Westou, N. 36° 20′, W. 69° 30′*†	30.30	769.6	56	13.3	.....	nw.	.....	4	.....	10	.....	wnw.	0	0	mod.	w.	cloudy.
S. Hedwig, N. 38° 43′, W. 57° 51′	30.24	768.1	51.4	10.8	.....	ese.	.....	1	.....	8	.....	nw.	½ h'r	½h'r	4	nnw.	cloudy.
Schr. Isabel Alberto, Jersey City, N. J.†	30.30	769.6	.....	.....	.....	wnw.	.....	2	.....	0	.....	.....	snow	snow	.....	.....	clear.
Schr. John L. Thomas, N. 33° 10′, W. 71° 40′*†	30.24	768.1	.....	.....	.....	wsw.	.....	2	.....	10	.....	s.	0	0	mod.	ne.	hazy.
Bkt. Josephine, N. 5° 37′, W. 25° 07′†	29.98	761.5	84	28.9	75	ene.	.....	3	.....	8	.....	e.	0	0	sm'h	.....	fair.
S. S. J. W. Wilson, Port Eads, La*†	30.22	767.6	58	14.4	.....	n.	.....	6	.....	0	.....	.....	0	0	.....	.....	clear
Light House Tender Laurel, Key West, Fla†	30.15	765.8	69	20.6	.....	ne.	.....	1	.....	9	.....	ne.	0	0	.....	.....	cloudy.
Bg. Lilian, N 23° 24′, W. 58° 50′†	30.33	770.4	75	23.9	.....	ne.	.....	4	.....	8	.....	e.	4 h'r	4 h'r	long	n.	showery.
Bk. Louise Adelaide, Vera Cruz, Mexico	.....	.....	.....	.....	.....	nnw	.....	6	.....	6	.....	nnw.	0	0	r'gh	n.	
Bg. L. & W. Armstrong, N. 22° 12′, W. 66° 17′*†	30.26	768.6	.....	.....	.....	ne.	.....	5	.....	1	.....	ne.	0	0	hv'y	var.	clear.
Schr. Minnie A. Bonsall, Jacksonville, Fla †	30.33	770.4	64	17.8	.....	nne.	.....	1	.....	5	.....	nne.	.....	.....	.....	.....	fair
S. Minnie N. Gerow, N. 30° 50′, W. 67° 25′*†	30.29	769.4	.....	.....	.....	e.	.....	2	.....	2	.....	e.	.....	.....	mod.	ne.	fine.
S. M. P. Grace, S. 53° 34′, W. 55° 18′*...	29.28	743.7	46	7.8	.....	nw.	.....	6	.....	5	.....	sw.	sli't	sli't	.....	nw.	h'vy sq'ls.
Bg. Myrtle, N. 34° 15′, W. 61° 50′	.....	.....	.....	.....	.....	w.	.....	1	.....	5	.....	w.	0	0	cross	var.	fair.
Bkt. Norena, N. 31° 30′, W. 73° 10′*†	30.36	771.1	.....	.....	.....	nw.	.....	2	.....	2	.....	n.	0	0	mod.	.....	cloudy?
Bg. O. C. Clary, Miragoane, Hayti, W. I.*†	30.08	764.0	82	27.8	91	calm	.....	0	.....	1	.....	e.	.....	.....	.....	.....	
Bk. Ottawa, N. 35° 50′, W. 6° 40′*	30.32	770.1	59	15.0	.....	ne.	.....	2	.....	0	.....	.....	0	0	long	w.	clear.
S. Paramita, San Francisco, Cal	.....	.....	50	10.0	.....	s.	.....	3	.....	.....	.....	.....	0	0	.....	.....	clear.
Schr. Pearl Nelson, Norfolk, Va*†	30.28	769.1	.....	.....	.....	nw.	.....	2	.....	4	.....	nw.	0	0	.....	.....	hazy.
S. S. Raleigh, Kingston, Jamaica, W. I*†	30.00	762.0	80	26.7	.....	calm	.....	0	.....	0	.....	.....	0	0	sm'h	.....	fine.
Bk. Reindeer, N. 33° 00′, W. 68° 40′	.....	.....	.....	.....	.....	w.	.....	2	.....	5	.....	w.	0	0	long	ene.	
Schr. S. B. Hubbard, Jacksonville, Fla *†	30.42	772.7	58	14.4	.....	calm	.....	0	.....	8	.....	e.	0	0	.....	.....	threatening.
Bk. Scud, N 37° 47′, W. 70° 00′*†	30.32	770.1	66	18.9	.....	nw.	.....	5	.....	8	.....	nw.	0	0	sm'h	.....	
Bk. Southern Belle, N. 37° 53′, W. 19° —′*†	30.15	765.8	60	15.6	.....	sse.	.....	4	.....	8	.....	sw.	0	0	mod.	sw.	cloudy.
S. Sovereinn of the Seas, N. 16° 42′, W. 119° 33′*†	30.02	762.5	73	22.8	85	e.	.....	1	.....	9	.....	e.	0	0	short	ese.	cloudy.
Bk. Sunbeam, N. 42° 10′, W. 26° 01′*†	29.90	759.4	60	15.6	88	sse.	.....	7	.....	10	.....	sw.	0	0	hv'y	s.	cloudy.
S. S. Sunbeam, New Orleans, La	30.42	772.7	51	10.6	86	n.	.....	3	.....	3	.....	n.	0	0	.....	.....	d. couds.
S. Titan, N. 37° 37′, W. 65° 11′*†	30.22	767.6	56	13.3	94	sw.	.....	6	.....	10	.....	nw.	2 h'r	2 h'r	sm'h	sw.	cloudy.
Bk. Vincenzo Aceame, N. 31° 48′, W. 71° 49′	.....	.....	70	21.1	.....	wnw.	.....	3	.....	10	.....	.....	0	0	.....	ne.	covered.
Bk. Wandering Jew, Montevideo, Uruguay †	29.90	759.4	72	22.2	.....	ese.	.....	6	.....	3	.....	e.	0	0	.....	.....	clear.
Schr. Wm. Wiler St. John's River, Fla†	30.28	769.1	.....	.....	.....	nne.	.....	1	.....	8	.....	nw.	0	0	.....	.....	fine.
Bk. Xenia, N. 39° 10′ W. 72° 30′*†	30.25	768.3	46	7.8	.....	w.	.....	6	.....	8	.....	wnw.	0	0	sm'h	.....	cloudy.

International Chart I. January 2, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 3, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.35	771.0	64.0	17.8	78	n.	.....	.....	1	.....	1	.....	.....	0	0	very fine	Malaterre.
Algiers	.....	.....	30.35	770.9	58.3	14.6	87	n.	.....	.....	3	.....	0	.....	.....	0	0	clear	Thève.
La Calle	.....	.....	30.30	769.5	63.3	17.4	88	wnw.	.....	.....	1	.....	4	.....	.....	0	0	cloudy	Fonfrède.
Tunis	.....	.....	30.25	768.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.36	771.1	64.4	18.0	48	se.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Pérès.
Tebessa	.....	.....	30.38	771.6	50.4	10.2	82	w.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Dognon.
Geriville	.....	.....	.....	.....	56.8	13.8	86	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Lonchamp.
Laghouat	.....	.....	30.45	773.3	60.8	16.0	39	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.38	771.6	64.0	17.8	35	nw.	.....	.....	1	.....	2	.....	.....	0	0	fair	Malau.
Australian.																			
Melbourne, Victoria	30.07	763.8	30.16	766.0	63.2	17.3	66	se.	5	2.2	.....	.....	1	.....	.....	0	0	very fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.33	745.0	29.89	759.2	46.0	7.8	89	ne.	.....	.....	2	.....	10	.....	.....	0.173	4.4	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.94	735.1	29.72	754.8	43.9	6.6	91	wsw.	7.6	3.4	.....	.....	10	.....	.....	0.055	1.4	.....	Dr. Wierzbiski.
Eperies	28.93	734.9	29.85	758.1	34.5	1.4	90	calm	.....	.....	0	.....	10	.....	.....	0	0	foggy	Julius Mikolik.
Gratz	28.64	727.5	29.92	760 0	43.3	6.3	90	sw.	.....	.....	1	.....	7	.....	.....	0.169	4.3	.....	Andreas Rospini.
Hermannstadt	28.45	722.5	29.93	760.1	30.3	2.4	100	nw.	.....	.....	2	.....	10	.....	.....	0.425	10.8	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.52	724.5	29.88	759.0	44.2	6.8	64	w.	.....	.....	6	.....	10	.....	.....	0.059	1.5	gloomy	The Staff.
Lemberg	28.76	730.5	29.77	756.1	39.2	4.0	88	sw.	.....	.....	2	.....	10	.....	.....	0.008	0.2	.....	Dr. T. Stanecki.
Neu Schmecks	26.35	669.2	29.73	755.2	41.4	5.2	78	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	29.81	757.2	29.93	760.1	51.3	10.7	89	wnw.	.....	.....	1	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.30	745.7	29.82	757.5	38.1	3.4	93	e.	.....	.....	1	.....	.....	.....	.....	0.402	10.2	.....	Joseph Midlinszky, S. J.
Szegedin	29.59	751.5	29.87	758.8	44.2	6.8	85	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.83	757 7	29.93	760.2	47.1	8.4	92	calm	.....	.....	0	.....	10	.....	.....	0.028	0.7	foggy	Royal Academy.
Vienna	29.13	739.8	29.85	758.1	48.6	9.2	55	w.	.....	.....	4	.....	10	.....	.....	0.181	4.6	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.87	758.7	29.98	761 5	38.6	3.7	80	wnw.	12	5.4	.....	.....	6	.....	.....	0	0	d. clouds	W. Boswell
Armagh, Observatory	29.83	757.7	30.07	763.8	42.2	5.7	91	sw.	6	2.7	.....	.....	8	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.03	762 7	44.9	7.2	85	w.	19	8.5	.....	.....	4	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.47	748.5	30.01	762.2	42.7	5 9	85	nw.	12	5.4	1	.....	8	.....	.....	.....	.....	gloomy	Thomas Mackereth.
Bradford, Yorkshire	29.59	751.6	29.99	761.7	44.6	7.0	89	w.	.....	.....	1	.....	5	.....	.....	0	0	d. clouds	McLandsborough&Preston*
Bridgetown, Barbadoes	30.05	763.3	30.08	764.0	74.0	23.3	87	ne.	.....	.....	3	.....	6	.....	.....	.....	.....	gloomy	Corpl. J. Surgenor, A. H. C.
Cardington	.....	.....	.....	.....	45.4	7.4	80	nw.	.....	.....	0.6	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E	29.90	759.4	30.04	763.0	45.1	7.3	79	w.	.....	.....	1	.....	10	.....	.....	blank	blank	gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.92	760.0	30.16	766.1	47.6	8.7	75	wnw.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.54	699.5	29.76	755.9	64.0	17.8	94	ne.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	Corpl. F. Milner, A. H. C.
Galway	30.02	762.5	30.06	763.5	42	5.6	91	w.	.....	.....	1	.....	10	.....	.....	0.03	0.8	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.24	768.1	30.29	769.4	59.0	15.0	93	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Sgt. J. Norris, A. H. C.
Glasgow, Observatory	29.79	756.7	29.99	761.7	40.8	4.9	80	wnw.	.....	.....	2	.....	10 k	.....	.....	.....	.....	gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.87	758.7	30.05	763.3	45.7	7.6	73	w.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	29.88	758 9	30.18	766.6	49 3	9.6	71	wnw.	.....	.....	1	.....	6	.....	.....	blank	blank	d. clouds	A. Collenette, F. M. S
Kew, Observatory	30.03	762.7	30.07	763 8	45.0	7.6	73	w.	11	4.9	.....	.....	10	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.77	756.1	30.04	763.0	45.3	7.4	83	nw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.96	761.0	30.02	762.5	63.0	17.2	76	w.	.....	.....	2	.....	10	.....	.....	0.08	2.0	overcast	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.21	767.3	30.25	768.3	73.2	22.9	93	ne.	.....	.....	1	.....	5	.....	.....	blank	blank	d. clouds	C. S. Duncombe
Oscott, St. Mary's College	29.49	749.0	30.02	762.5	44.6	7.0	80	wnw.	.....	.....	6	.....	9	.....	.....	.....	.....	threatening	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.83	757.7	30.06	763.5	45.0	7.2	76	w.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	The Staff.
Plymouth	30.06	763.5	30.14	765.5	44.7	7.1	90	w.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.84	757.9	29.94	760.5	38.4	3.6	71	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.96	761.0	30.03	762.7	50.2	10.1	71	sw.	.....	.....	1	.....	7	.....	.....	blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.72	754 9	30.01	762.2	45.7	7.6	84	wnw.	.....	.....	2	.....	9	.....	.....	0	0	overcast	W. F. Cooper.
Silloth Rectory	29.96	761.0	29.99	761.7	43.0	6.1	86	nw.	.....	.....	2	.....	8	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.02	762.5	43.1	6.2	81	w.	11	4.9	.....	.....	6	.....	.....	.....	.....	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.77	756.1	29.99	761.7	46.3	7.9	76	nw.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.10	764.5	30.16	766 1	49	9.4	71	w.	.....	.....	2	.....	10	.....	.....	.....	.....	gloomy	W. Newcombe.
Valencia, Observatory	30.00	762.0	30.03	762.7	47.2	8.4	75	se.	11	4.9	.....	.....	7	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.32	770.1	30.36	771.1	— 2	—18.9	90	w.	15	6.7	.....	.....	10 n	.....	calm	0.015	0.4	cloudy	H. J. Cundall, C. E
Chatham, N. B*	30.37	771.4	30.44	773.2	—11	—23.9	100	w.	1	0.4	.....	5 cs	10 ks	w.	w.	0	0	fair	G. A. Blair.
Cornwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dalhousie	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Father Point, Quebec*	30.42	772.7	30.44	773.2	—17	—27.2	65	sw.	10	4.5	.....	5 cs	0	.....	.....	0	0	clear	I. McWilliams.
Fort Garry, Manitoba*	30.49	774.4	30.53	775.4	—37	—38.3	100	nw.	10	4.5	.....	0	0	.....	.....	0.01	0.3	clear	James Stewart.
Halifax, N. S*	30.29	769.4	30.43	772.9	1	—17.2	100	nw.	4	1.8	.....	0	0	.....	.....	0.150	3.8	clear	A. Allison.
Kingston, Ontario*	29.76	755.9	30.11	764.8	25	— 3.9	80	s.	18	8.0	.....	4 cs	4 k	w.	calm	inap.	inap.	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.99	761.7	30.23	767.8	— 2	—18.9	91	se.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.20	741.7	29.92	760.0	27	— 2.8	88	s.	21	9.4	.....	.....	10 ks	.....	w.	0	0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.40	746 7	30.13	765.3	27	— 2.8	88	sw.	17	7.6	.....	10 cs	0	sw.	.....	inap.	inap.	cloudy	H. Morgan.
Port Stanley, Ontario	29.49	749 0	30.17	766.3	25	— 3.9	88	w.	18	8.0	.....	5 k	2 k	w.	sw.	0	0	cloudy	M. Payne.
Quebec, Quebec*	30.04	763 0	30.41	772.4	—11	—23.9	50	ne.	.....	.....	1	.....	10 k	.....	ne.	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.47	748.5	29.97	761.2	8	—13.3	91	se.	8	3.6	.....	.....	10 ks	.....	sw.	0	0	threatening	W. H. McIntyre.
Saugeen, Ontario*	29.24	742.7	30.00	762.0	24	— 4.4	96	sw.	30	10.1	.....	.....	10 s	.....	.....	0.15	3.8	cloudy	
St. Andrews, N. B	30.40	772 1	30.40	773.7	— 4	—20.0	93	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	
Sydney, C. B*	30.13	765.3	30.19	766.8	14	—10.0	83	nw.	19	8.5	.....	5 k	5 ks	nw.	nw.	0.20	5.1	fair	T. C. Hill, C. E
Toronto, Ontario*	29.71	754.6	30.11	764.8	25	— 3.9	88	sw.	25	11.2	.....	.....	10 ks	.....	sw.	inap.	inap.	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.36	771.1	30.43	772.9	11	—11.7	76	ne.	1	0.4	.....	.....	10 s	.....	ne.	0.03	0.8	cloudy	Lt. F. E. Wilmot, R N.
Cape Colony.																			
Cape St. Francis Lt. House	29.98	761.5	30.01	762.2	71.0	21.7	78	sw.	10.5	4.7	.....	0	1 k	.....	.....	0	0	light haze	John Duthie.
Springbok Fontein	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.89	632.3	.....	.....	13.6	—10.2	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.35	770.9	30.46	773.7	27.0	— 2.8	52	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	**Mission, S. J.**
Zi-Ka-Wei, near Shanghai	30.53	775.4	30.56	776.1	29.1	— 1.6	82	w.	3.4	1.5	.....	0	0	.....	.....	0	0	clear	**M. Marc Dechevreus .S.J**
Danish.																			
Copenhagen	29.39	746.4	29.43	747.6	40.8	4.9	90	wnw.	20	9	.....	.....	10	.....	.....	.....	.....	.....	**Oversergent Fischer.**
Fanoe	29.60	751.8	29.62	752.3	39.7	4.3	82	nw.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	29.37	745.9	29.41	747.0	22.6	— 5.2	68	ene.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	**S. Kleinschmidt.**
Ivigtut, Greenland	29.19	741.3	29.21	741.8	30.7	— 0.7	.....	se.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.78	756.4	29.83	757.6	—14.6	—25.9	.....	calm	.....	.....	0	.....	1	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.87	758.7	29.91	759.8	14.9	— 9.5	87	ne.	.....	.....	6	.....	2	.....	.....	.....	.....	.....	**A. O. Thorlacius.**
Thorshavn	29.96	761.0	30.00	761.9	28.6	— 1.9	82	n.	7	3	.....	.....	0	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Vestervig	29.43	747.4	29.52	749.7	39.0	3.9	77	nw.	.....	.....	6	.....	1	.....	.....	.....	.....	.....	**Loerer Oesterbol.**
Upernavik, Greenland	29.81	757.2	29.86	758.4	—15.2	—26.2	.....	e.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	.....	.....	.....	.....	51.1	10.6	93	calm	.....	.....	0	.....	n	.....	w.	0	0	.....	**M. Labroue, Director.**
Alençon, Normal School	29.71	754.5	30.26	768.5	44.2	6.8	88	sw.	.....	.....	1	.....	kn	ne.	ne.	0	0	.....	**M. Nicot, Director.**
Arras, Engineer School	29.78	756.5	30.05	763 3	45.5	7.5	87	.....	.....	.....	1	.....	k	.....	n.	0.067	1.7	.....	**M. Fénéon, Command't.**
Avignon, Normal School	30.11	764 8	30.19	766.8	55.0	12.8	36	nnw.	.....	.....	2	.....	0	.....	.....	0	0	clear	**M. Giraud, Director.**
Bar-sur-Seine	29.57	751 1	30.14	765.6	45.9	7.7	74	wnw.	.....	.....	2	.....	10	.....	nw.	0.016	0.4	covered	**M. Salliard, Director.**
Beauvais, Normal School	29.84	757.8	30.11	764.8	47.7	8.7	76	w.	.....	.....	2	.....	10	.....	w.	0.154	3.9	covered	**M. Frère Eugène Marié.**
Besançon, Normal School	.....	.....	.....	.....	46.8	8.2	94	se.	.....	.....	1	.....	cn	.....	sw.	0	0	.....	**M. Gobin, Director.**
Bordeaux, Observatory	29.99	761.7	30.26	768.5	47.8	8.8	100	s.	.....	.....	1	.....	10	.....	.....	0.130	3.3	foggy	**M. Rayet, Director.**
Bourges, Normal School	29.61	752.2	30.18	766.6	43.7	6.5	85	ne.	.....	.....	2	c	0	ne.	.....	0	0	.....	**M. Malet, Director.**
Brest, Naval Observatory	29.96	760.9	30.20	767.1	50.4	10.2	86	nw.	.....	.....	1	.....	8	.....	nw.	0.020	0.5	.....	**M. de Kermaréc, Dir.**
Caen, Normal School	29.96	761.0	30.04	762.9	48.6	9.2	61	nw.	.....	.....	1	.....	2	.....	nw.	0.12	3.	slightly cl'dy	**M. Berson, Director.**
Châlons-sur-Marne, N.Sch'l	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.031	0.8	.....	**M. Jadot, Director.**
Charleville, Normal School	29.49	749.0	30.01	762.2	45.7	7.6	89	w.	.....	.....	1	.....	8	.....	w.	1.02	26.	¾ covered	**M. Grimard, Director.**
Clermont-Ferrand Obs'y	28.89	733.8	30.28	769.0	48.2	9.0	63	w.	.....	.....	1	.....	10	.....	.....	0.028	0.7	sprinkling	**M. Allnard, Director.**
Cluny, Normal School	29.35	745.5	30.21	767.4	45.7	7.6	70	w.	.....	.....	2	.....	10	.....	w.	0.047	1.2	light rain	**M. de Villemontée, Dir.**
Commercy, Normal School	29.20	741.6	30.03	762.8	42.8	6	86	w.	.....	.....	4	.....	10 kn	w.	w.	1.264	32.1	raining	**Dr. Coulet, Director.**
Gap, Normal School	27.55	699.7	30.13	765.2	47.5	8.6	52	sw.	.....	.....	2	2 c	0	s.	.....	0	0	.....	**M. Jeangirard, Director.**
Grénoble, du Rhone	28.99	736.3	30.13	765.3	50.9	10.5	54	nw.	.....	.....	4	.....	1	.....	nw.	0	0	.....	**M. Kina, Director.**
Grenoble, Normal School	29.42	747.3	30.21	767.4	51.1	10.6	60	n.	.....	.....	1	.....	kn	.....	n.	0.016	0.4	.....	**M. Ablard, Director.**
Guéret	28.63	727.1	30.26	768.5	43.7	6.5	85	w.	.....	.....	2	0	5 n	.....	wnw.	0.213	5.4	cloudy	**M. Delorme, Dir.**
Lamballe, Normal School	29.93	760.2	30.21	767.2	48.6	9.2	71	wnw.	.....	.....	2	.....	10	.....	wnw.	0	0	covered	**M. Ollitrault, Director.**
Lescar, Normal School	29.64	752.9	30.21	767.4	55.0	12.8	61	w.	.....	.....	1	1 c	0	.....	.....	0.087	2.2	clear	**M. Chauvin, Director.**
Lorient, Naval Observatory	30.13	765.3	30.23	767.9	52.2	11.2	72	wnw.	.....	.....	1	.....	10	w.	.....	0	0	covered	**Lt. T. Carré, Director.**
Lyon, St. Genis-Laval	29.17	740.8	30.25	768.4	44.2	6.8	72	wnw.	.....	.....	1	8 cn	0	.....	.....	0.059	1.5	very cloudy	**M. André, Director.**
Mans, Normal School	29.87	758.6	30.18	766.6	48.0	8.9	96	w.	.....	.....	1	.....	5	.....	nw.	0.228	5.8	cloudy	**M. Piboën, Director.**
Marseille, Observatory	29.87	758.6	30.14	765.5	55.9	13.3	64	wnw.	.....	.....	4	.....	1	.....	wnw.	0	0	.....	**M. Stephan, Director.**
Montlouis	24.91	632.8	29.76	755.8	44.6	7.0	51	sw.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	**M. Caré for Dr. Finas.**
Montpellier, Normal School	30.04	762.9	30.17	766.2	57.6	14.2	63	wnw.	.....	.....	4	.....	2	.....	wnw.	0	0	slightly cl'dy	**M. Galzin, Director.**
Nancy, Normal School	29.18	741.1	29.97	761.1	45.7	7.6	83	w.	.....	.....	1	.....	n	.....	w.	0.350	8.9	.....	**M. Hasse, Director.**
Nantes, Observatory	30.10	764.6	30.27	768.8	52.2	11.2	76	nw.	.....	.....	0.1	.....	10 kn. n	.....	wnw.	0.04	1.	.....	**M. Lareeque, Director.**
Perpignan, Observatory	30.13	765.4	30.25	768.3	57.6	14.2	48	nw.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	**Dr. Fines, Director.**
Pic-du-Midi, Summit	21.32	541.5	.....	.....	31.3	— 0.4	.....	nw.	.....	.....	1	.....	1	.....	nw.	0	0	clear	**M. Vaussenat.**
Privas, Normal School	29.15	740.3	30.23	767.9	50.0	10	74	n.	.....	.....	1	.....	5	n.	n.	0	0	cloudy	**M. Tatieu.**
Puy de Dôme Obs'y, Summit	25 20	640.0	.....	.....	29.8	— 1.2	100	wnw.	.....	.....	6	.....	10	.....	.....	0.429	10.9	snow & fog	**M. Allnard, Director.**
Rochefort, Naval Obs'y	30.21	767.3	30.24	768.1	53.6	12.0	78	s.	.....	.....	1	.....	2	.....	ne.	0	0	¼ covered	**Lt. E. Decante, Director.**
Roche-sur-Yon, N. School	29.96	760.9	30.17	766.4	49.6	9.8	95	w.	.....	.....	1	.....	10	.....	w.	0.035	0.9	covered	**M. Brotier, Director.**
Rodez, Normal School	28.06	712.8	30.27	768.9	43.5	6.4	91	se.	.....	.....	1	.....	kn	.....	se.	0.47	12.	.....	**M. Seger, Director.**
Rouen, Normal School	30.08	764.0	30.13	765.2	49.3	9.6	71	nw.	.....	.....	4	.....	5	.....	w.	0.10	4.	cloudy	**M. Moullot.**
Saint Lô	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.97	761.1	30.13	765.3	48.0	8.9	73	w.	.....	.....	1	.....	10	.....	nw.	0.035	0.9	.....	**M. Renou, Director.**
Toulouse, Observatory	29.60	751.8	30.33	770.3	46.9	8.3	96	nw.	.....	.....	1	.....	10	nw.	.....	0	0	covered	**M. Baillaud, Director.**
Tours	30.04	762.9	30.21	767.4	49.6	9.8	81	sw.	.....	.....	1	.....	5	n.	nw.	0.177	4.5	cloudy	**M. de Tastes.**
Versailles, Observatory	29.64	752.8	30.13	765.3	47.8	8.8	78	w.	.....	.....	2	.....	.....	.....	.....	0.016	0.4	.....	**Dr. A. Bérigny, Director.**
Sub-series.																			
St. Martin du Hinx	30.12	765.0	30.22	768.8	53.4	11.9	67	e.	5.8	2.6	.....	4 c	0	w.	.....	0	0	.....	**M. Cartier, Director.**
German.																			
Ansbach	28.40	721.3	29.88	759.0	39.6	4.2	90	w.	.....	.....	6	.....	9	w.	.....	0.130	3.3	.....	**Prof. Jnedt.**
Bamberg	28.94	735.0	29.77	756.2	42.8	6.0	80	nw.	.....	.....	4	.....	10 n	.....	w.	.....	.....	raining	**Prof. Dr. Hoh.**
Berlin	29.46	748.2	29.66	751.9	40.6	4.8	90	nw.	.....	.....	2	.....	10	.....	.....	0.181	4.6	raining	**Dr. Lensch.**
Breslau	29.15	740.4	29.67	753 7	44.1	6.7	76	wsw.	.....	.....	2	.....	10	.....	.....	0.303	7.7	light rain	**Royal University Obs'y.**
Carlsruhe	29.54	750.2	29.98	761.6	43.9	6 6	86	sw.	.....	.....	4	.....	10	sw.	.....	0.244	6.2	raining	**Albert Senz.**
Cassel	29.04	737.7	29.76	755.8	42.1	5.6	83	nw.	.....	.....	8	.....	10	wnw.	.....	0.161	4.1	.....	**Dr. H. Möhl.**
Frankfort-on-the-Main	29.54	750.3	29.91	759.8	44.4	6.9	74	Wsw.	.....	.....	2	.....	8	.....	.....	0.205	5.2	.....	**Physical Society.**
Friedrichshafen	28.61	726.6	30.07	763.8	45.5	7.5	66	sw.	.....	.....	7	.....	10	w.	.....	0.020	0.5	.....	**Wilhelm, Chief Tel.**
Hamburg	29.57	751.1	29.66	753.4	42.3	5.7	90	wnw.	.....	.....	3	.....	2	.....	.....	0.079	2.0	hazy	**E. Preller.**
Kiel	29.61	752.2	29.63	752.6	42.4	5.8	91	w.	.....	.....	6	.....	10	.....	.....	0.020	0.5	.....	**Prof. Dr. G. Karsten.**
Leipsic, Astrom'l Obs'y	29.22	742.2	29.64	752.9	44.2	6.8	78	w.	.....	.....	4	.....	9	w.	.....	0.283	7.2	sprinkling	**H. Leppig, Asst.**
Magdeburg	29.43	747.5	29.62	752.4	42.1	5.6	86	w.	.....	.....	4	.....	10 ks	.....	nw.	0.173	4.4	.....	**Weather Observatory.**
Memel	29.43	747.5	29.48	748 7	36.7	2.6	94	sw.	.....	.....	5	.....	10 8	.....	.....	.....	.....	light fog	**Issermann.**
Munich	28.11	713.9	29.97	761.1	39.0	3.9	80	sw.	.....	.....	8	.....	10	.....	.....	0.091	2.3	raining	**Central Station.**
Neufahrwasser	29.51	749.5	29.52	749.9	41.0	5.0	84	sw.	.....	.....	2	.....	7	wsw.	.....	0.008	0.2	.....	**A. Lothes.**
Neustadt, Palatinate	29.39	746.5	29.91	759.8	45.5	7.5	79	w.	.....	.....	4	.....	2	nw.	.....	0	0	.....	**Dickuether.**
Stuttgart	28.96	735.6	29.87	759.8	43.3	6.3	81	w.	.....	.....	7	.....	10	.....	.....	0.051	1.3	raining	**Prof. Dr. Schoder.**
Wustrow	29.58	751.2	29.69	751.8	38.5	3.6	92	wsw.	.....	.....	3	.....	10 8	.....	.....	0	0	.....	**Profs. Brandes & Reimer.**
Greek.																			
Athens	29.67	753.7	30.06	763.5	58.6	14.8	.....	sw.	.....	.....	2.0	.....	1	.....	.....	0	0	clear	**Schmidt & Wourlisch.**
Indian.																			
Kurrachee	30.12	765.0	30.17	766.3	77.2	25.1	37	ene.	18.0	8.0	.....	.....	4	se.	.....	0	0	d. clouds	
Deesa	29.58	751.3	30.06	763.5	81.3	27.4	25	nnw.	10.0	4.5	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.96	761.1	30.00	762.0	82.0	27.8	68	w.	7.0	3.1	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.15	715.0	30.00	762.0	83.6	28.7	19	nw.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Belgaum	27.46	697.4	30.00	762.1	77.3	25.2	28	e.	6.0	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.36	745.7	30.13	765.3	64.6	18.1	46	calm	0	0	.....	.....	4	.....	.....	0	0	d. clouds	
Roorkee	29.17	740.8	30.11	764.7	64.8	18.2	49	calm	0	0	.....	.....	2	.....	w.	0	0	.....	
Agra	29.46	748.3	30.04	763.1	69.2	20.7	44	w.	.....	.....	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	29.02	737.1	30.07	763.9	79.7	26.5	35	ese.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Jubbulpore	28.71	729.2	30.09	764.4	72.6	22.6	57	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.72	754.8	30.11	764.7	69.8	21.0	48	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.78	756.4	30.10	764.6	66.8	19.3	69	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.94	760.4	30.13	765.3	66.6	19.2	65	wnw.	2.1	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	28.06	712.7	30.14	765.4	65.6	18.7	47	nnw.	5.9	2.6	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	30.02	762.6	30.11	764 7	74.9	23.8	66	nnw.	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	30.09	764.4	30.12	764.9	68.5	20.3	65	nnw.	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	30.00	762.1	30.13	765.3	67.5	19.7	69	calm	0.3	0.1	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	30.04	763.0	30.14	765.4	67.1	19.5	77	calm	1.6	0.7	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.81	757.1	30.16	766.1	60.6	15.9	85	se.	1.0	0.4	.....	.....	2	.....	.....	0	0	d. clouds	
Zanzibar	29.84	757.8	29.86	758.4	85.2	29.6	68	ne.	2.4	1.1	.....	.....	6	.....	ne.	0	0	d. clouds	
Jeypore	28 65	727.6	30.14	765.5	67.7	19.8	66	nw.	5.0	2.2	.....	.....	0	.....	.....	0	0	blue sky	
Bellary	28.55	725.2	.....	.....	78.0	25.6	41	e.	6	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.78	756.4	.....	.....	80.1	26.7	60	ene.	1	0.4	.....	.....	0	.....	.....	0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.52	749.8	29.95	760.7	47.1	8.4	89	calm	0	0	.....	.....	10	.....	.....	0.114	2.9	.....	Prof. Giovanni Clodig.
Milan	29.41	747.1	29.96	760.9	43.5	6.4	95	w.	6.5	2.8	.....	.....	10	.....	.....	0.008	0.2	.....	Prof. Schiapparelli.
Padua	29.82	757.4	29.93	760.3	46.8	8.2	89	wnw.	2.5	1.1	.....	.....	10	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.01	736.9	29.96	760.9	42.1	5.6	88	ese.	1.8	0.8	.....	.....	1	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.78	756.4	29.98	761.4	57.2	14.0	74	calm	0	0	.....	.....	2	s.	.....	0.003	1.6	.....	Prof. G. M. Garibaldi.
Mondovi	28.02	711.7	30.02	762.5	51.6	10.9	47	ese.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.91	759.6	29.96	760.9	45.0	7.2	100	n.	6.9	3.1	.....	.....	10	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.72	754.8	29.98	761.5	56.7	13.7	66	w.	.....	.....	2	.....	8	.....	.....	0.142	3.6	.....	Prof. Costantino Pittei.
Leghorn	29.84	757.8	29.92	760.0	57.4	14.1	70	wsw.	4.9	2.2	.....	.....	9	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.80	757.0	29.98	761.5	59.4	15.2	76	ssw.	0	0	.....	.....	8	.....	.....	0.059	1.5	.....	Prof. P. Tachini.
Lecce	29.72	755.0	29.98	761.6	57.2	14.0	86	w.	9.4	4.2	.....	.....	10	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.15	740.4	30.06	763.6	56.5	13.6	77	sw.	1.8	0.8	.....	.....	9	w.	.....	0.008	0.2	.....	Prof. D. Conti.
Cagliari	29.87	758.7	30.07	763.7	57.9	14.4	56	nw.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.79	756.6	30.04	763.0	63.5	17.5	61	w.	9.4	4.2	.....	.....	7	.....	.....	0	0	.....	Prof. G. Caccintore.
Syracuse	29.98	761.5	30.02	762.6	58.3	14.6	84	se.	3.8	1.7	.....	.....	0	sw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.51	749.6	30.04	763.1	56.8	13.8	85	sw.	8.1	3.6	.....	.....	10	sw.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.00	558.8	.....	.....	24.6	— 4.1	72	se.	.....	.....	2	.....	8	.....	.....	0	0	misty.	Prof. P. F. Denza.
Valdobbia	22.04	559.8	.....	.....	24.3	— 4.3	68	n.	.....	.....	0	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.25	768.2	30.28	769.0	32.8	0.4	74	nw.	.....	.....	4	.....	10 n	.....	nw.	0.120	3.2	snowing	Hattori.
Awomori	30.15	765.9	30.19	768.9	28.3	— 2.1	94	ssw.	10.4	7.3	.....	.....	10 n	.....	.....	0.024	0.6	light snow	K. Ogawa.
Hakodate	30.14	765.6	30.15	765.9	25.1	— 3.8	96	w.	24.0	10.7	.....	.....	10	.....	.....	0.020	0.5	overcast	
Hamamatsu	30.29	769.3	30.32	770.0	36.8	2.7	62	calm	.....	.....	0	0	0	.....	.....	0	0	clear	
Kagoshima	30.37	771.4	30.38	771.7	39.5	4.2	79	n.	.....	.....	2	0	0	.....	.....	0.020	0.5	clear	G. Miyanohaza.
Kioto	30.10	766.0	30.34	770.7	30.0	— 1.1	87	nw.	0.5	0.2	.....	0	4 8	.....	.....	0	0	fair	M. Tojima.
Kochi	30.33	770.4	30.35	770.9	39.5	4.2	70	nw.	3.3	1.4	.....	0	0	.....	.....	0	0	clear	K. Kusunose.
Miasaka	30.44	773.2	30.47	774.0	38.1	3.4	74	w.	.....	.....	2	0	0	.....	.....	0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.14	765.6	30.36	771.0	40.1	4.5	85	calm	0	0	.....	0	6 8	.....	.....	0.080	2.0	.....	S. Takehayashi.
Niigata	30.29	769.3	30.33	770.4	32.4	0.2	97	w.	7.5	3.3	.....	.....	10 n	.....	.....	0.135	3.4	light snow	M. Moritta.
Nobira	30.22	767.6	30.24	768.0	24.0	— 4.4	86	nw.	5.0	2.2	.....	0	0	.....	.....	0	0	clear	H. Midzushima.
Numazu	30.25	768.4	30.29	769.3	37.2	2.9	82	e.	.....	.....	2	0	2 ks	.....	.....	0	0	clear	R. Kaneda.
Sakai	30.31	769.8	30.32	770.5	38.0	3.3	89	w.	.....	.....	2	.....	10 8	.....	.....	0.010	0.4	cloudy	K. Yamawchi.
Supporo	.....	.....	.....	.....	18.8	— 7.3	87	calm	0	0	.....	.....	10	.....	.....	0	0	covered	
Tokei Obs'y, Yeddo	30.21	767.3	30.29	769.4	35.3	1.8	72	nw.	4.0	1.8	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	30.28	769.1	30.33	770.5	34.2	1.2	77	ne.	3.6	1.6	.....	0	0	.....	.....	0	0	clear	Y. Kuwamura.
Osaka	30.33	770.4	30.35	770.8	32.7	0.4	92	ne.	2.2	1.0	.....	0	0	.....	.....	0	0	clear	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.83	757.7	30.02	762.5	81.3	27.4	61	ene.	14.5	6.5	.....	5 cs	4 ks;k	wsw.	e.	0	0	cloudy	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. Diaz Pena.
Guanajuato	23.71	602.2	29.93	760.2	48.7	9.3	86	sw.	inap.	inap.	.....	10 c;ck	0	.....	.....	0	0	very cloudy	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.21	767.3	46.4	8.0	92	nw.	.....	.....	1	9 c	0	sw.	.....	0	0	very cloudy	Prof. M. Leal.
Mazatlan	29.79	756.7	30.05	763.4	67.5	19.7	77	nne.	5.3	2.3	.....	10 cn	0	sw.	.....	0.039	1.0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.13	587.5	30.34	770.5	43.3	6.3	83	calm	0	0	.....	2 ck	1 s	.....	.....	0	0	½ cloudy	The Staff.
Morelia	24.31	617.5	30.18	766.5	43.3	6.3	69	sw.	.....	.....	1	2 c	2 k	se.	s.	0	0	clear	M. Tena, M. D.
Puebla, Catholic Institute	23.40	594.3	30.33	770.3	41.0	5.0	39	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
Zacatecas	22.55	572.7	30.29	769.3	46.3	8.0	70	wsw.	6.5	3.0	.....	8 cs	2 s	w.	.....	0	0	covered	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.98	761.5	29.98	761.5	46.2	7.9	.....	wnw.	.....	.....	4	.....	.....	.....	.....	0.181	4.6	.....	
Groningen	29 75	755.6	29.80	757.0	43.9	6.6	.....	nw.	.....	.....	3	.....	.....	.....	.....	0.008	0.2	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Hellevoetsluis	29.93	760.3	29.93	760.3	45.1	7.3	84	w.	.....	.....	4	.....	.....	.....	.....	0.024	0.6	.....	
Utrecht	29.87	758.8	29.92	760.0	47.7	8.7	77	wnw.	.....	.....	2	.....	5	.....	.....	0.120	3.2	.....	H. van der Brink.
Sub-series.																			
Batavia, Java	29.97	761.3	.....	.....	79.2	26.2	84*	nnw.	0	0	.....	.....	6	.....	.....	0	0	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.55	750.5	29.61	752.1	39.9	4.4	93	n.	25	11	.....	.....	4	.....	.....	1.087	27.6	.....	
Brono	29.37	746.1	29.41	747.1	32.0	0.0	61	n.	29	13	.....	.....	9	.....	.....	0.488	12.4	.....	
Christiania	29.29	744.0	29.45	747.9	21.9	— 5.6	90	nw.	0	0	.....	.....	4	.....	.....	0.248	6.3	.....	
Gjesvær	29.17	740.8	29.19	741 4	19.0	— 7.2	.....	nw.	.....	.....	6	.....	10	.....	.....	.....	.....	foggy	
Lodingen	29.39	746.5	29.44	747.7	20.1	— 6.6	63	nne.	.....	.....	4	.....	8	.....	.....	0.083	2.1	.....	
PORTUGUESE.																			
Angra, Azores	29.97	761.1	30.12	765.1	56.5	13.6	69	nw.	15.4	6.9	.....	.....	3	.....	.....	0.217	5.5	.....	Dr. J. A. Sampaio.
Campo Major	29.22	742.2	30.24	768.1	53.0	12.0	83	ne.	2.5	1.1	.....	.....	7	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.10	766.1	30.25	768.3	68.0	20.0	55	w.	12.5	5.6	.....	.....	2	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.91	759.6	30.28	769.1	48.7	9.3	100	ene.	3.1	1.4	.....	.....	10	.....	.....	0	0	foggy	The Staff.
Ponta Delgada, Azores	30.10	764 4	30.17	766.2	60.4	15.8	59	nw.	9.4	4.2	.....	.....	4	.....	.....	0.811	20.6	.....	
Saint Paul de Lonado	29.73	755.2	29.93	760.3	76.8	24.9	86	wnw.	1.8	0.8	.....	.....	3	sse.	.....	0	0	.....	
Serra da Estrella	25.42	645.7	30.28	769.1	39.0	3.9	100	se.	11.2	5.0	.....	.....	10	.....	.....	0	0	foggy	
RUSSIAN.																			
Akmolinski	29.09	738.9	30.29	769.4	3.0	—16.1	95	sw.	9	4	.....	1 cs	0	.....	.....	.....	.....	.....	Major K. Lasarew.
Archangel	29.25	743.0	29.27	743.5	11.5	—11.4	78	s.	13	6	.....	.....	10	.....	.....	0.197	5.0	.....	Capt. Sseliwerstow.
Ashurada	30.17	766.4	30.08	764.0	50.2	10.1	87	wnw.	4	2	.....	.....	10 kn	.....	.....	0	0	.....	
Astrakhan	30.46	773 7	30.38	771.6	22.3	— 5.4	63	nw.	4	2	.....	0	4 k	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.31	769.8	30.26	768.6	37.4	3.0	91	nnw.	22	10	.....	.....	10 kn	.....	.....	0.039	1.0	.....	
Barnaul	29.72	754.8	30.26	768.5	19.4	— 7.0	74	sw.	4	2	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Bielosersk	29.05	737.9	29.55	750.6	12.2	—11.0	87	s.	22	10	.....	.....	10 8	.....	.....	0.079	2.0	snow-drift	
Dorpat	29.00	738.2	29.31	744.5	36.3	2.4	100	sw.	11	5	.....	.....	10 n	.....	.....	0.071	1.8	.....	Observatory.
Ekaterinburg	28.98	736.0	30.05	763.2	— 1.3	—18.5	84	wsw.	7	3	.....	1 cs	0	.....	.....	inap.	inap.	.....	Meteorological Obs'y.
Elissawetgrad	29.637	752.5?	30.227	767.5?	30.0	— 1.1	82	ese.	.....	.....	.....	.....	10 8	.....	.....	0.114	2.9	.....	
Kasan	29.95	760.7	30.25	768.4	— 0.8	—18.2	76	sw.	7	3	.....	.....	10	.....	.....	.....	.....	light snow	Observatory.
Kem	29.05	737.8	29.10	739.1	16.5	— 8.6	91	s.	4	2	.....	.....	10 n	.....	.....	0.185	4.7	.....	
Kerch	30.25	768.4	30.27	768 9	31.5	— 0.3	78	e.	4	2	.....	0	2 k	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.20	741.6	29.86	758.4	33.1	0.6	94	ssw.	16	7	.....	.....	10ks;n	.....	.....	0.181	4.6	.....	Observatory.
Koslov	29.69	754.0	30.29	769.3	— 8.5	—22.5	87	ssw.	7	3	.....	0 cs	0	.....	.....	0	0	.....	
Libau	29.32	744.7	29.34	745.3	37.0	2.8	93	sw.	16	7	.....	.....	10	.....	.....	0.098	2.5	.....	E. Quaas.
Lugan	30.00	763 4	30.26	768.0	17.8	— 7.9	71	s.	2	1	.....	.....	1	.....	.....	0	0	light clouds	Meteorological Obs'y.
Moscow	29.40	746.8	29.93	760.1	11.5	—11.4	72	s.	11.2	5.0	.....	.....	10 n	.....	.....	0	0	.....	
Nikolaiev	30.02	762.4	30.09	764.3	34.2	1.2	83	s.	18	8	.....	cs	8 n	.....	.....	0.299	7.6	.....	Capt. Kurdakow.
Pekin, China	30.28	769.1	30.42	772.7	20.6	— 3.0	34	calm	0	0	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Petrozavodsk	28 98	736.2	29.19	741.4	24.4	— 4.2	91	sw.	34	15	.....	9 ck	0	.....	.....	0.130	3.3	.....	Dr. Bergmann.
Pinsk	29.18	741.2	29.69	754 2	34.5	1.4	100	ssw.	9	4	.....	.....	10 8	.....	.....	0.283	7.2	rain & snow	
Poti	30.19	766.9	30.21	767.4	43.9	6.6	76	e.	4	2	.....	0	2 ks	.....	.....	0	0	.....	
St. Petersburg	29.26	743.2	29.28	743.6	34.2	1.2	89	s.	20	9	.....	.....	10 n	.....	.....	0.047	1.2	.....	Central Physical Obs'y.
Samarkand	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Sevastopol	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Semipalatinsk	29.90	759.4	30.06	763.6	42.4	5.8	64	se.	20	9	.....	5 cs	0	.....	.....	0	0	.....	
Starol Bykhov	29.74	755.4	30.44	773 2	18.3	— 7.6	78	s.	4	2	.....	.....	2	.....	.....	0	0	.....	Major Lasarew.
Tiflis	29.31	744.4	29.79	756.6	28 0	— 1.9	100	se.	9	4	.....	.....	10	.....	.....	0	0	.....	
Tomsk	28.76	730.5	30.23	767.8	40.5	4.7	35	nw.	9	4	.....	5 ck	0	.....	.....	0	0	.....	Physical Observatory.
Viatka	29.73	755 1	30.02	762.4	29.1	— 1.6	57	s.	2	1	.....	.....	10	.....	.....	.....	.....	.....	
Warsaw	29.41	747.1	30.14	765.6	—16.4	—26.9	.....	wnw.	2	1	.....	.....	7	.....	.....	0	0	.....	
Wilna	29.20	741.6	29.63	752.5	39.6	4.2	92	wsw.	11	5	.....	.....	9	.....	.....	0.079	2.0	.....	Astronomical Obs'y.
Yeniseisk	29.13	739.8	29.56	750 7	36.3	2.4	98	s.	2	1	.....	.....	10	.....	.....	0.118	3.0	heavy clouds	Berg, Assistant.
	29.87	758.8	30.17	766.4	30.6	— 0.8	99	ssw.	2	1	.....	.....	10	.....	.....	0.020	0.5	.....	M. O. Marks.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mil.	Inch.	Mil.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From	Lower. From.	Inch.	Mil.		
Scottish.																			
Monach Lt.	.....	.....	29.99	761.7	44	6.7	92	nw.	.....	.....	3	.....	10	.....	.....	0.2	5.	gloomy.....	J. Youngclause
North Unst.	.....	.....	29.91	759.7	.....	.....	.....	n.	.....	.....	4	5	3	ne.	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Ous'y.	30.17	766.3	30.28	769.0	54.9	12.7	67	sw.	2.0	0.9	.....	0	0	.....	.....	0	0	clear.....	Antonio Rave, Director.
Bilbao, Met. Obs'y.	30.16	766.0	30.22	767.5	56.5	13.6	65	se.	4.3	1.9	.....	3	4	ne.	.....	0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y.	27.27	692.7	30.34	770.5	44.6	7.0	75	sw.	3.1	1.4	.....	.....	8	.....	.....	0	0	cloudy.....	Domingo Martin.
Madrid, Royal Obs'y.	28.04	712.3	30.34	770.5	48.2	9.0	78	ne.	0.7	0.3	.....	.....	9	.....	.....	0.012	0.3	almost cov'd	The Staff.
Murcia, Met. Obs'y.	30.13	765.2	30.27	768.9	59.2	15.1	82	wsw.	1.8	0.8	.....	3	4	e.	.....	0	0	cloudy.....	Olayo Diaz, Director.
Oviedo.	29.35	745.4	30.23	767.9	43.2	6.2	95	s.	5.1	2.3	.....	4 n	4 n	nw.	nw.	0.939	1.0	cloudy.....	Prof. L. G. Frades.
Santiago, Met. Obs'y.	29.20	741.6	30.10	764.5	54.9	12.7	78	se.	4.3	1.9	.....	.....	9	.....	.....	0.004	0.1	almost cov..	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.95	760.7	30.01	762.2	76.0	24.4	73	nnw.	14.8	6.6	.....	.....	10 kn	.....	.....	0	0	cloudy.....	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.18	766.5	30.28	769.0	62.1	16.7	73	s.	11.5	5.1	.....	2	8	wsw.	s.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I.	30.11	764.7	30.20	767.0	75.2	24.0	98	calm	0	0	.....	6 cs	4 kn	n.	e.	0.118	3.0	cloudy..	Manuel Maese.
Swedish.																			
Hapsaranda.	29.13	740.0	29.17	741.0	18.3	— 7.6	100	n	.....	.....	4	.....	10	.....	.....	0.528	13.4	snowing.....	
Umea.	29.08	738.5	29.13	739.8	23.7	— 4.6	90	nne.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Hernosand.	29.11	739.5	29.17	740.8	32.0	0.0	78	sw.	.....	.....	2	.....	5	.....	.....	0.028	0.7	.....	
Stockholm.	29.00	736.6	29.18	741.1	30.2	— 1.0	92	wnw.	.....	.....	2	.....	10	.....	.....	0.114	2.9	.....	
Wisby.	29.15	740 3	29.21	741.8	35.2	1.8	96	nw.	.....	.....	6	.....	10	.....	.....	0.122	3.1	.....	
Sub-series.																			
Upsala.	29.10	739.0	29.18	741.2	29.1	— 1.6	96	nw.	10.3	4.6	.....	.....	9	.....	nw.	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva.	28.76	730.6	30.22	767.6	44.6	7.0	70	s.	.....	.....	3	.....	10	.....	.....	0.094	2.4	covered	The Observatory.
Turkish.																			
Constantinople.	.....	.....	30.07	763.8	48.7	9.3	61	se.	4	2.0	.....	.....	4	.....	sw.	0	0	....	The Observatory.
Valona..	.....	.....	30.04	762.9	54.9	12.7	.....	ne.	.....	.....	1	.....	10	.....	.....	0	0	covered.....	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria.	.....	.....	30.04	763.0	59.0	15.0	51	n.	.....	.....	3	.....	0	.....	.....	0.27	6.9	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria.	26.69	677.9	.....	.....	44	6.7	90	nw.	.....	.....	1	.....	10 c	.....	.....	0.02	0.5	cloudy.....	Fred L. Kingsbury.
United States.																			
Albany, New York.	30.29	769.4	30.38	771.6	24	— 4.4	73	s.	3	1.3	.....	0	0	.....	.....	0	0	clear..	J. O. Barnes.
Alpena, Michigan.	29.27	743.4	29.98	761.5	18	— 7.8	83	sw.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona.	24.90	632.4	30.02	762.5	18	— 7.8	73	se.	12	5.4	.....	0	6 s	.....	.....	0	0	fair.....	W. C. Barnes.
Assinnaboine, Ft., Montana	27.37	695.2	30.41	772.4	—12	—24.4	54	ne.	9	4.0	.....	0	3 s	.....	nw.	0.02	0.5	clear.....	B. O. Lenoir.
Atlanta, Georgia.	29.19	741.4	30.42	772.7	35.0	1.7	69	ne.	10	4.5	.....	4 cs	0	.....	.....	0	0	fair.....	H. C. Smith.
Atlantic City, New Jersey.	30.41	772.4	30.42	772.7	32	0.0	68	sw.	1	0.4	.....	5 c	0	.....	.....	0	0	fair.....	Jas. M. Watson.
Augusta, Georgia.	30.24	768.1	30.44	773.2	39	3.9	82	nw.	2	0.9	.....	0	9 s	.....	.....	0	0	cloudy.....	John Healy.
Baltimore, Maryland.	30.39	771.9	30.44	773.2	31	— 0.6	68	ne.	3	1.3	.....	.....	10s;fog	.....	w.	0	0	cloudy.....	Geo W Felger.
Barnegat, New Jersey.	30.39	771.9	30.41	772.4	27.0	— 2.8	77	n.	6	2.7	.....	6 ck	0	nw.	.....	0	0	fair.....	G. A. Hill.
Behring Id., Behring Sea.	28.76	730.5	28.78	731.0	22.7	— 5.2	.....	s.	8	3.6	.....	0	4 n	.....	.....	0.07	1.8	fair.....	Leonard Steineger.
Bennett, Fort, Dakota.	28 89	733.8	30.03	778.0	—11	—23.9	74	calm	0	0	.....	0	5 s	.....	.....	0	0	fair.....	A. Pritchard.
Benton, Fort, Montana.	27 37	695.2	30.35	770.9	— 5	—20.6	100	ne.	6	2.7	.....	.....	10 s	.....	ne.	0.10	2.5	light snow..	S. Wheaton.
Billings, Montana.	26.91	683.5	.....	.....	— 5	—20.6	.....	e.	12	5.4	.....	c	3 s	.....	.....	0	0	clear.....	T. Gibson.
Bismarck, Dakota.	28.60	726.4	30.59	777.0	—23	—30.6	100	nw.	4	1.8	.....	1 c	0	.....	.....	0	0	clear..	Cyrus Cramer.
Block Island, Rhode Island	30.43	772.9	30.40	773.7	31	— 0.6	68	se.	4	1.8	.....	0	4ks	.....	sw.	0	0	fair.....	J. T. Elker.
Boise City, Idaho.	27.22	691.4	30.15	765.8	4	—15.6	87	w.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy.....	B. E. Light.
Boston, Massachusetts.	30.29	769.4	30.46	773.7	19.0	— 7.2	53	ne.	3	1.3	.....	0	sk.	.....	ne.	0	0	clear	O. B. Cole.
Brownsville, Texas.	30.09	764.3	30.14	765.5	38.3	3.5	100	n.	4	1.8	.....	.....	fg.	.....	.....	0.03	0.8	dense fog....	M. McCarty.
Buffalo, New York.	29.37	746.0	30.17	766.3	24.7	— 4.1	82	s.	26	11.6	.....	.....	10 s	.....	s.	inap.	inap.	cloudy	W. Finn.
Buford, Fort, Dakota.	28.44	722.4	30.64	778.2	—29	—33.9	100	w.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	F. A. Mellen.
Burlington, Vermont.	29.96	761.0	30.27	768.8	13.0	—10.6	80	s.	9	4.0	.....	7 cs	0	w.	.....	inap.	inap.	fair.....	G. O. Schaeffer.
Cairo, Illinois.	29.97	761.2	30.39	771.9	34.8	1.6	98	sw.	4	1.8	.....	.....	10 n	.....	.....	0.08	2.0	light rain,...	W. H. Ray.
Cape Henry, Virginia.	30.42	772.7	30.44	773.2	36	2.2	89	e.	5	2.2	.....	5ck	0	.....	.....	0	0	fair.....	A. K. Alderson.
Cape May, New Jersey.	30.38	771.6	30.41	772.4	35.0	1.7	60	s.	12	5.4	.....	2 cs	0	.....	.....	0	0	clear.....	W. E. Smith.
Cape Mendocino, California.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. J. McLean.
Cedar Keys, Florida.	30.27	768.8	30.29	769.4	54	12.2	67	ne.	7	3.1	.....	10 ck	0	.....	.....	0	0	cloudy	F. W. Mixer.
Champaign, Illinois.	29.42	747.3	30.29	769.4	16.5	— 8.6	60	sw.	9	4.0	.....	0	hz.	.....	.....	0	0	clear.....	L. A. Welsh.
Charleston, S. Carolina.	30.31	769.9	30.37	771.4	45	7.2	83	n	7	3.1	.....	.....	10 s	.....	n.	0	0	threatening.	J. H. Smith.
Charlotte, N. Carolina.	29.52	749.8	30.41	772.4	31.0	0.6	78	ne.	5	2.2	.....	.....	10 s	.....	ne.	0	0	cloudy.....	D. O'Donoghue.
Chattanooga, Tennessee.	29.56	750.8	30.42	772.7	33.0	0.6	88	ne.	2	0.9	.....	9 ck	fg.	w.	.....	0	0	cloudy.....	B. L. Goulding.
Cheyenne, Wyoming.	23.91	607.3	30.16	766.1	10.3	—12.1	48	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	E. McGovern.
Chicago, Illinois.	29.48	748.8	30.23	767.8	18.8	— 7.3	80	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear.....	J. Mitchell.
Chincoteague, Virginia.	30.41	772.4	30.43	772.9	32.5	0.3	83	ne.	3	1.3	.....	hz.	0	.....	.....	0	0	clear.....	C. F. Dickens.
Cincinnati, Ohio.	29.65	753.1	30.34	770.6	31	— 0.6	88	sw.	5	2.2	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	R. B. Watkins.
Cleveland, Ohio.	29.46	748 3	30.24	768.1	23	— 5.0	88	s.	8	3.6	.....	0	2 s	.....	.....	0	0	clear.....	J. B. Newlin.
Coleman City, Texas.	28.30	718.8	30.18	766.6	32	0.0	100	s.	3	1.3	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	L. Dorman.
Columbus, Ohio.	29.39	746.5	30.29	769.4	25	— 3.9	73	s.	6	2.7	.....	0	7 s	.....	.....	0	0	fair.....	D. Cuthbertson.
Concho, Fort, Texas.	28.15	715.0	30.17	766.3	32.0	0.0	88	calm	0	0	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	J. McGlone.
Custer, Fort, Montana.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. B. Lamar
Davenport, Iowa.	29.59	751 6	30.30	769.6	14	—10.0	94	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear.....	R. R. Martin.
Davis, Fort, Texas.	25.13	638.3	30.11	764.8	27	— 2.8	80	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	J. Williams.
Dayton, Washington T'y.	28.14	714.7	29.94	760.5	16.5	— 8.6	75	sw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy.....	D. Moore.
Deadwood, Dakota.	25.38	644.6	30.32	770.1	— 2	—18.9	100	e.	3	1.3	.....	.....	10 s	.....	w.	0	0	cloudy.....	F. Willson.
Delaware Breakwater, Del	30.42	772.7	30.44	773.2	33	0.6	68	s.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	T. S. Townsend.
Denison, Texas.	29.41	747.3	30.25	768.3	34.0	1.1	88	se.	6	2.7	.....	.....	10 n	.....	.....	0.10	2.5	light rain,...	J. W. Byram.
Denver, Colorado.	24.68	626.9	30.20	767.1	12.0	—11.1	70	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	F. M. Neal.
Des Moines, Iowa.	29.51	749.5	30.48	774.2	3	—16.1	72	n.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	F. W. Conrad.
Detroit, Michigan.	29.42	747.3	30.18	766.6	23.0	— 5.0	88	sw.	20	8.9	.....	0	0	.....	.....	0	0	clear.....	C. F. R. Wappenhans.
Dodge City, Kansas.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	V. P. Temple.
Dubuque, Iowa.	29.59	751.6	30.36	771.1	8.8	—12.9	66	nw.	5	2.2	.....	c	0	.....	.....	0	0	clear.....	J. Harvey Smith.
Duluth, Minnesota.	29.55	750.6	30.39	771.1	—12.5	—24.7	68	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	N. B. Conger.
Eagle Pass, Texas.	29.37	746.0	30.21	767.3	39.0	3.8	89	se.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy.....	F. Belford.
Eagle Rock, Idaho.	25.21	640.3	30.17	766.3	0	—17.8	75	n.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	J. M. Clifford.
Eastport, Maine.	30.40	772.1	30.47	773.9	0.0	—17.8	68	nw.	8	3.6	.....	0	2 s	.....	nw.	inap.	inap.	clear.....	D. C. Murphy.
Elliott, Fort, Texas.	27.23	691.6	30.16	766.1	19	— 7.2	58	s.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	W. J. Cundall.
El Paso, Texas.	26.23	666.2	30.11	764.8	26.0	— 3.3	88	se.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	J. O'Dowd.
Erie, Pennsylvania.	29.44	747.8	30.21	767.3	25	— 3.9	88	sw.	14	6.3	.....	.....	10 s	.....	.....	0.02	0.5	cloudy.....	Peter Wood.
Escanaba, Michigan.	29.41	747.0	30.13	765.3	5.0	—15.0	76	w.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	George Heathcote.
Fredericksburg, Texas.	28.35	720.1	30.17	766.3	27	— 2.8	100	calm	0	0	.....	.....	10 s	.....	.....	0.06	1.5	cloudy.....	Frank Halwegler.
Galveston, Texas.	30.12	765.0	30.17	766.3	55	12.8	93	e.	12	5.4	.....	.....	hz.	.....	.....	0	0	dense haze...	E. O'C. MacInernay.
Grand Haven, Michigan.	29.43	747.5	30.14	765.5	27.0	— 2.8	77	w.	24	10.7	.....	.....	10 s	.....	w.	inap.	inap.	cloudy.....	J. E. Mueller.
Grant, Fort, Arizona.	25.10	637.5	30.00	762.0	36	2.2	92	se	10	4.5	.....	.....	10 n	.....	se.	0.48	12.2	light rain....	Robert C. Lord.
Hatteras, North Carolina.	30.37	771.4	30.39	771.9	44	6.7	93	ne.	16	7.2	.....	3 k	3 s	n.	w.	0	0	fair.....	R. M. Crawford.
Helena, Montana.	25.71	653.0	30.14	765.5	2	—16.7	76	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	N. C. Smith.
Henrietta, Texas.	29.17	740.9	30.24	768.1	29	— 1.7	88	se.	4	1.8	.....	3 cs	0	.....	.....	0	0	clear.....	J. P. Sherry.
Huron, Dakota.	29.08	738.6	30.02	777.7	—10.8	—23.8	57	nw.	7	3.1	.....	5 cs	0	.....	.....	0	0	fair.....	S. W. Glenn.
Indianapolis, Indiana.	29.44	747.8	30.28	769.1	25	— 3.9	73	sw.	3	1.3	.....	0	4 s	.....	sw.	0	0	fair.....	J. F. Jirdinston.
Indianola, Texas.	30.10	764.5	30.13	765.3	39.0	3.9	100	n.	17	7.6	.....	.....	10 s	.....	.....	0.04	1.0	cloudy.....	I. A. Reed.
Jacksboro, Texas.	29.00	736.6	30.24	768.1	34	1.1	88	se.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy.....	D. J. Carr.
Jacksonville, Florida.	30.28	769 1	30.33	770.4	52	11.1	80	ne.	1	0.4	.....	4 cs	fg.	.....	.....	0	0	fair.....	J. W. Smith.
Keogh, Fort, Montana.	27.78	705.6	30.47	773.9	— 8	—22.2	100	calm	0	0	.....	.....	10 n	.....	.....	inap.	inap.	night snow..	A. Schneider.
Keokuk, Iowa.	29.67	753.6	30.37	771.4	13.0	—10.6	70	nw.	14	6.3	.....	0	0	.....	.....	0	0	clear.....	F. Z. Gosewisch.

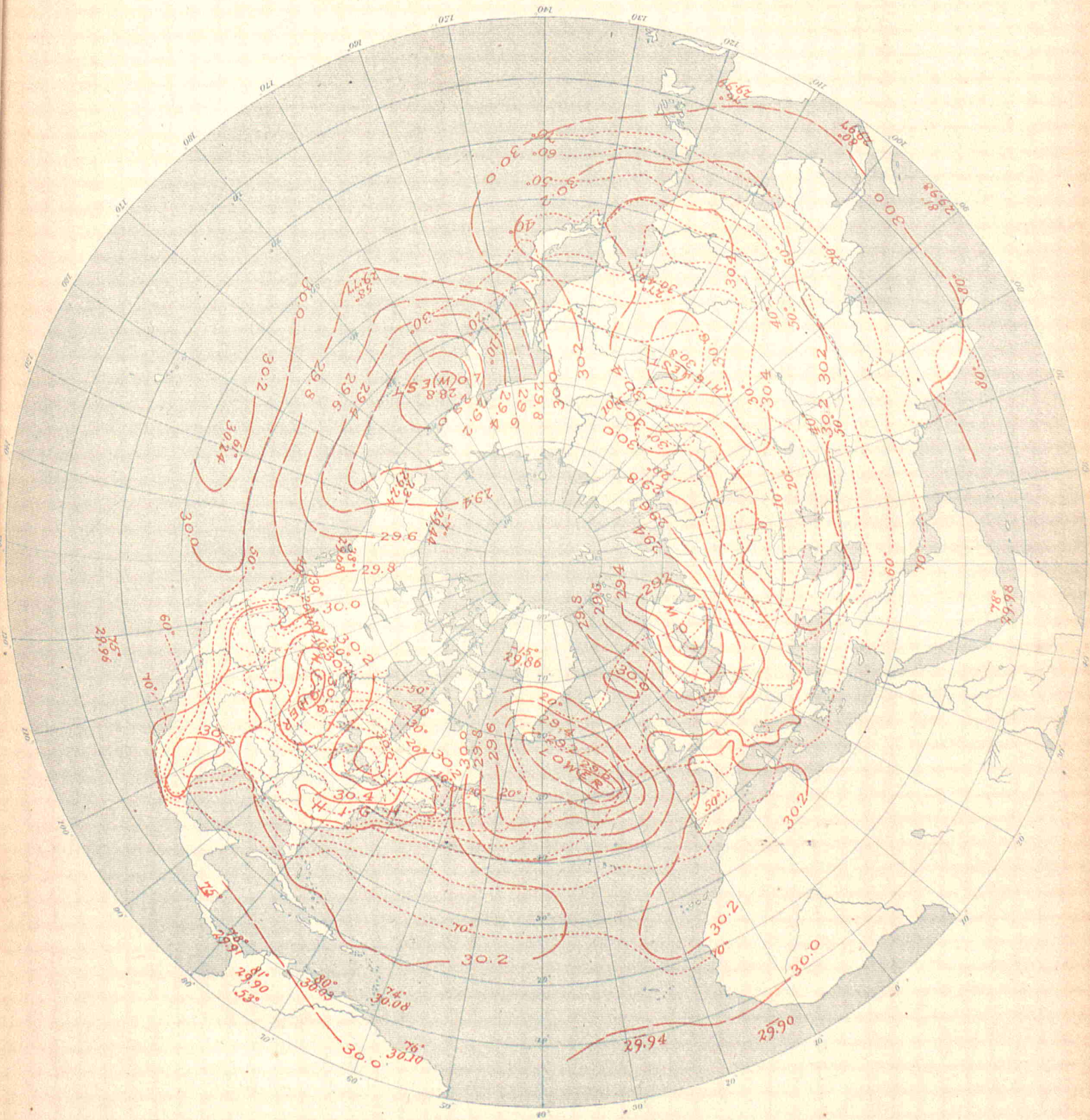
STATIONS	Barometer: Corrected for instrumental error and for temperature. Inch.	Barometer: Corrected for instrumental error and for temperature. Mill.	Barometer: Reduced to sea-level. Inch.	Barometer: Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.15	765.8	30.17	766.3	69.0	20.6	93	ne.	12	5.4	.....	0	2 s	.....	.....	0.02	0.5	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.41	772.4	30.43	772.9	43	6.1	93	e.	12	5.4	.....	0	6 s	.....	e.	0	0	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	29.35	745.5	30.43	772.9	28	— 2.2	96	ne.	2	0.9	.....	7 cs	0	w.	.....	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.55	750.6	30.39	771.9	3	—16.1	72	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.46	748.3	30.42	772.7	8	—13.3	76	n.	14	6.3	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.10	739.4	29.97	761.2	26.0	— 3.3	70	ne.	5	2.2	.....	3 cs	0	.....	.....	0	0	clear	W. Bell.
Little Rock, Arkansas	30.01	762.2	30.34	770.6	35	1.7	89	se.	2	0.9	.....	.....	10 n	.....	.....	1.00	27.7	light rain	W. U. Simons.
Los Angeles, California	29.47	748.5	29.87	758.7	45	7.2	83	ne.	8	3.6	.....	0	0	.....	.....	0.03	16.0	clear	T. S. Collins.
Louisville, Kentucky	29.73	755.1	30.32	770.1	38	3.3	72	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.71	754.6	30.43	772.9	26	— 3.3	84	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	Louis Dunne.
Mackinaw City, Michigan	29.31	744.5	30.01	762.2	15.0	— 9.4	67	w.	23	10.3	.....	5 k	0	w.	.....	0.17	4.3	fair	F. R. Day.
Macon, Fort, North Carolina	30.37	771.4	30.38	771.6	41.0	5.0	92	n.	14	6.3	.....	.....	10 k	.....	sw.	0	0	cloudy	William Daly.
Madison, Wisconsin	29.22	742.2	30.31	769.9	4	—15.6	76	nw.	15	6.7	.....	0	0	.....	.....	0.01	0.3	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	.....	.....	.....	.....	—12	—24.4	54	n.	6	2.7	.....	.....	10 k	.....	.....	0.01	0.3	cloudy	F. Burke.
McKavett, Fort, Texas	27.88	708.1	30.27	768.8	29	— 1.7	88	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.24	742.7	30.02	762.5	9	—12.8	76	sw.	10	4.5	.....	.....	10 n	.....	sw.	inap.	inap.	light snow	J. Gilligan.
Memphis, Tennessee	30.01	762.2	30.37	771.4	33	0.6	100	nw.	4	1.8	.....	.....	10 n	.....	.....	0.78	19.8	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.42	747.3	30.22	767.6	17	— 8.3	83	nw.	20	8.9	.....	.....	10 s	.....	nw.	0	0	cloudy	W. Line.
Missoula, Fort, Montana	29.60	675.6	30.06	763.5	8	—13.3	58	calm	0	0	.....	.....	10 s	.....	.....	0.01	0.3	threatening	I. H. Young.
Mobile, Alabama	30.25	768.3	30.29	769.4	42.5	5.8	93	nw.	3	1.3	.....	10 cs	0	w.	.....	0	0	cloudy	C. A. Read.
Montgomery, Alabama	30.11	764.8	30.35	770.9	38.5	3.6	84	calm	0	0	.....	3ck;he	0	sw.	.....	0	0	clear	J. B. McLaughlin
Moorhead, Minnesota	29.44	747.8	30.55	776.0	—28	—33.3	100	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.30	744.2	30.36	771.1	22.5	— 5.3	87	sw.	1	0.4	.....	.....	10 s	.....	sw.	0	0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.62	599.9	30.25	768.3	1.0	—17.2	54	nw.	60	26.8	.....	2 ck	2 ks	nw.	nw.	0.02	0.5	cloudy	J. E. Thatcher.
Nashville, Tennessee	29.79	756.7	30.40	772.1	31.5	— 0.3	94	se.	1	0.4	.....	.....	10 n	.....	s.	0.03	0.8	fair	F. McGillivray.
New Haven, Connecticut	30.30	769.6	30.42	772.7	19.5	— 6.9	89	calm	0	0	.....	8 cs	sk.	sw.	.....	0	0	sleeting	L. N. Jesunofsky.
New London, Connecticut	30.42	772.7	30.47	773.9	24	— 4.4	73	ne.	3	1.3	.....	3 c	0	sw.	.....	0	0	cloudy	J. H. Sherman.
New Orleans, Louisiana	30.18	766.0	30.24	768.1	50.0	10.0	86	se.	7	3.1	.....	.....	10 s	.....	se.	0	0	clear	J. G. Lynch.
Newport, Rhode Island	30.41	772.4	30.46	773.7	22.0	— 5.6	73	e.	8	3.6	.....	3 c	1s;hz	nw.	w.	0	0	cloudy	L. Dunne.
New York, New York	30.25	768.3	30.44	773.2	29	— 1.7	88	se.	2	0.9	.....	5 cs	fg.	sw.	.....	0	0	fair	W. McGillivray.
Norfolk, Virginia	30.41	772.4	30.44	773.2	36	2.2	79	e.	1	0.4	.....	0	fg; hz	.....	.....	0	0	fair	J. B. Merrill.
North Platte, Nebraska	27.31	693.7	30.43	772.9	1.6	—16.9	62	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	Wm. Davis.
Olympia, Washington T'y	29.83	757.7	29.87	758.7	31.0	— 0.6	88	s.	2	0.9	.....	.....	10 s	.....	.....	0	0	clear	E. F. Brady.
Omaha, Nebraska	29.25	742.9	30.52	775.2	1.0	—17.2	72	n.	14	6.3	.....	0	0	.....	.....	0	0	cloudy	J. Dascomb.
Oswego, New York	29.82	757.4	30.17	766.3	22.0	— 5.6	88	s.	10	4.5	.....	8 cs	0	nw.	.....	0.03	0.8	cloudy	A. Pollak.
Palestine, Texas	29.67	753.6	30.25	768.3	38.0	3.3	89	ne.	6	2.7	.....	.....	10 s	.....	.....	0.12	3.0	threatening	J. G. Linsley.
Pensacola, Florida	30.29	769.4	30.32	770.1	46.2	7.9	80	ne.	6	2.7	.....	5 cs	0	w.	.....	0	0	fair	L. M. Pindell.
Philadelphia, Pa	30.33	770 4	30.44	773.2	31.5	— 0.3	48	se.	2	0.9	.....	8 ck	0	sw.	.....	0	0	cloudy	M. McGauran.
Pike's Peak, Colorado	17.56	446.0	30.26	768.6	1	—17.2	100	nw.	36	16.1	.....	4 ck	0	n.	.....	0	0	fair	T. T. Townsend.
Ploche, Nevada	23.85	605.8	30.05	763 3	24.4	— 4.2	74	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.45	748.0	30.30	769.6	22.0	— 5.6	88	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	C. N. Kitchel.
Poplar River, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. A. Reid.
Port Eads, Louisiana	30.21	767.3	30.22	767.6	58.6	14.8	92	e.	9	4.0	.....	0	7 s	.....	se.	0	0	fair	W. D. Maxwell.
Port Huron, Michigan	29.42	747.3	30.15	765.8	17.3	— 8.2	80	sw.	15	6.7	.....	0	0 s	.....	sw.	0	0	cloudy	H. B. Boyer.
Portland, Maine	30.39	771.9	30.44	773.2	11.0	—11.7	80	n.	9	4.0	.....	0	2 s	.....	n.	0	0	cloudy	W. O. Bailey.
Portland, Oregon	29.91	759.7	29.98	761.5	30.0	— 1.1	88	ne.	2	0.9	.....	.....	10 s	.....	n.	0	0	clear	W. W. Eichelberger.
Portsmouth, N. C.	.....	.....	.....	.....	44	6.7	93	ne.	.....	.....	2	.....	10 s	.....	n.	0	0	cloudy	M. L. Hearne.
Prescott, Arizona	24.55	623.6	29.93	760.2	34.5	1.4	92	s.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	F. S. Coburn.
Provincetown, Mass	30.42	772.7	30.45	773.4	22	— 5.6	73	nw.	1	0.4	.....	0	1 s	.....	.....	0	0	cloudy	W. H. Clendenon.
Punta Rassa, Florida	30.21	767.3	30.22	768.6	61	16.1	96	ne.	8	3.6	.....	.....	fg.	.....	.....	0	0	clear	P. T. Jenkins.
Red Bluff, California	29.59	751.6	29.96	761.0	35	1.7	79	n.	4	1.8	.....	2 cs	0	nw.	.....	0	0	dense fog	W. J. Evans.
Rochester, New York	29.44	747.8	30.15	765.8	19	— 7.2	91	sw.	16	7.2	.....	.....	10 k	.....	w.	0	0	clear	J. R. Williams.
Roseburg, Oregon	29.34	745.2	29.92	760.0	32	0.0	83	s.	2	0.9	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	E. W. McGann
Sacramento, California	29.87	758.7	29.95	760.7	37.8	3.2	89	se.	4	1.8	.....	0	0	.....	.....	0	0	cloudy	J. J. Nanry.
St. Louis, Missouri	29.70	754.4	30.34	770.6	30.7	— 0.7	86	w.	6	2.7	.....	0	48;sk	.....	w.; c.	0	0	clear	J. A. Barwick.
St. Michael, Fort, Alaska	29.21	741.9	29.24	742.7	23	— 5.0	100	se.	.....	.....	4	.....	10 s	.....	.....	0	0	fair	A. W. Weber.
St. Paul, Minnesota	29.48	748.8	30.43	772.9	— 4.0	—20.0	65	nw.	7	3.1	.....	0	0	.....	.....	inap.	inap.	cloudy	A. P. Leavitt.
St. Vincent, Minnesota	29.52	749.8	30.50	774.7	—32	—35.6	100	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	P. F. Lyons.
Salt Lake City, Utah	25.54	648.7	30.11	764.8	20	— 6.7	58	se.	1	0.4	.....	.....	10 s	.....	.....	0.00	1.5	clear	C. B. Dilley.
San Antonio, Texas	29.46	748.3	30.19	766.8	37.0	2.8	100	n.	2	0.9	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	J. Craig.
San Diego, California	29.76	755.9	29.83	757.7	49.0	9.4	83	nw.	2	0.9	.....	5 k	4 s	nw.	nw.	0.98	24.9	cloudy	T. J. Kenan.
Sandusky, Ohio	29.50	749.3	30.22	767.6	23	— 5.0	73	sw.	17	7.6	.....	0	0	.....	.....	0	0	cloudy	A. G. Dobbins.
Sandy Hook, New Jersey	30.40	772.1	30.43	772.9	30.0	— 1.1	78	w.	4	1.8	.....	5 ck	0	w.	.....	0	0	clear	M. H. Perry.
San Francisco, California	29.88	758.9	29.95	760.7	45	7.2	93	nw.	3	1.3	.....	5 cs	fg.	nw.	.....	0	0	fair	B. A. Blundon.
Santa Fé, New Mexico	23.12	587.2	30.17	766.3	25	— 3.9	58	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Savannah, Georgia	30.29	769.4	30.39	771.9	47	8.3	93	n.	4	1.8	.....	4 cs	0	.....	.....	0	0	fair	H. U. Jones.
Shaw, Fort, Montana	26.42	671.1	30.28	769.1	— 4	—20.0	68	e.	4	1.8	.....	0	4 s	.....	.....	0	0	fair	H. W. Ford.
Shreveport, Louisiana	30.02	762.5	30.27	768.8	39	3.9	82	e.	3	1.3	.....	.....	10 s	.....	.....	0.05	1.3	fair	A. L. Mathews.
Sill, Fort, Indian Territory	28.91	734.3	30.24	768.1	32	0.0	65	se.	6	2.7	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	E. N. Meekins.
Silver City, New Mexico	24.21	614.9	30.07	763.8	27.0	— 2.8	84	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	W. M. Mattingly.
Sitka, Alaska	29.61	752.1	29.68	753.9	37.6	3.1	82	nw.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	N. D. Lane.
Smith, Fort, Arkansas	29.82	757.4	30.32	770.1	33.3	0.7	88	calm	0	0	.....	.....	10 n	.....	sw.	0	0	cloudy	F. W. Fickett.
Smithville, North Carolina	30.34	770.6	30.38	771.6	40	4.4	82	n.	6	2.7	.....	6 c	3 s	w.	sw.	0.06	1.5	light rain	J. B. Campbell.
Spokane Falls, Wash. Ter.	27.85	707.4	29.99	761.7	20.7	— 6.3	92	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	O. Parker.
Springfield, Illinois	29.59	751.6	30.32	770.1	24	— 4.4	73	w.	8	3.6	.....	0	0	.....	.....	0.02	0.5	cloudy	H. Clifford.
Springfield, Missouri	28.80	731.5	30.32	770.1	33	0.0	83	s.	2	0.9	.....	.....	10 s	.....	.....	0	0	clear	T. R. Jennings.
Starkville, Miss.	29.86	758.4	30.36	771.1	35	1.7	79	n.	7	3.1	.....	.....	10 s	.....	n.	0	0	cloudy	J. H. Bryce.
Stevenson, Fort, Dakota	28.56	725.4	30.62	777.7	—31	—35.0	100	nw.	8	3.6	.....	0	0	.....	.....	0	0	cloudy	C. Dill.
Stockton, Fort, Texas	27.01	686.0	30.15	765.8	25	— 3.9	88	sw.	2	0.9	.....	5 c	0	sw.	.....	0	0	clear	W. Burrows.
Thatcher's Island, Mass	30.40	772.1	30.46	773.7	23.0	— 5.0	73	sw.	1	0.4	.....	5 k	0	w.	.....	0.06	1.5	fair	A. J. Warren.
Thomas, Camp, Arizona	27.11	688.6	29.94	760.5	45.5	7.5	64	nw.	.....	.....	1	.....	10 n	.....	.....	inap.	inap.	fair	G. Liebmann.
Toledo, Ohio	29.45	748.0	30.19	766.8	24	— 4.4	73	s.	11	4.9	.....	0	1 s	.....	.....	0	0	light rain	J. T. Fitzgerald.
Tucson, Arizona	27.42	696.5	29.92	760.0	47	8.3	93	se.	8	3.6	.....	.....	9 s	.....	.....	0.42	10.7	clear	A. Buell.
Umatilla, Oregon	29.68	753.9	30.07	763.8	19	— 7.2	84	s.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. L. Whiteside.
Verde, Fort, Arizona	.....	.....	.....	.....	39.4	4.1	82	w.	.....	.....	1	.....	10 s	.....	w.	0	0	cloudy	J. Daly.
Vicksburg, Mississippi	30.06	763.5	30.33	770.4	43.4	6.3	74	ne.	2	0.9	.....	.....	10 s	.....	s.	0	0	cloudy	D. Brooks.
Visalia, California	29.56	750.8	29.95	760.7	35.1	1.7	92	calm	0	0	.....	1 cs	0	.....	.....	0	0	cloudy	James Kenealy.
Washakie, Fort, Wyoming	24.33	618.0	30.12	765.0	— 9.8	—23.2	86	s.	2	0.9	.....	3 k	0	.....	.....	0	0	clear	O. D. Stewart
Washington, D. C.	30.34	770.6	30.46	773 7	28.0	— 2.2	77	calm	0	0	.....	.....	10 k	.....	.....	0	0	clear	T. M. Ambler.
West Las Animas, Colorado	26.10	662.9	30.24	768.1	12.5	—10.8	83	e.	12	5.4	.....	.....	10 s	.....	sw.	0	0	cloudy	B. M. Purssell.
Williamsport, Pa	29.72	754.9	30.35	770.9	19	— 7.2	84	calm	0	0	.....	.....	8 ks	.....	e.	0	0	cloudy	F. H. Brandenburg.
Wilmington, N. Carolina	30.32	770.1	30.38	771.6	40	4.4	82	ne.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	B. F. Hough.
Winnemucca, Nevada	25.53	648 5	30.07	763.8	3.5	—15.8	76	ne.	6	2.7	.....	3 c	0	.....	ne.	0	0	cloudy	Samuel A. Haney.
Yankton, Dakota	29.13	739.9	30.55	776.0	— 9	—22.8	54	n.	20	8.9	.....	0	0	sw.	.....	0	0	clear	J. Grover.
Yuma, Arizona	29.65	753.1	29.80	756.9	46.2	7.9	90	nw.	4	1.8	.....	.....	10 s	.....	.....	0	0	clear	J. H. Attfield.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8	.....	.....	53.0	11.7	76	calm	0	0	.....	3 k	5 sn	nw.	nw	0	0	cloudy	W. S. Delano.
Kingston, Jamaica, W. I.	30.10	764.5	30.11	764.8	71	21.7	85	calm	0	0	.....	10 cs	0	.....	.....	0	0	cloudy	Joaquin Gomez.
Paramaribo, S. A.	30.10	764.5	30.10	764.5	76	24.4	91	e.	.....	.....	2	5 k	8 ks	e.	.....	0	0	.....	Robert Johnston.
Puerto Berrio, U. S. Col'mbia	29.35	745.5	29.90	759.4	81	27.2	85	calm	.....	.....	0	0	1 s	.....	calm	0	0	clear	Dr. C. J. Hering.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75	23.9	92	ne.	.....	.....	5	2 ck	3 ks	se.	ne.	0	0	fair	Francisco J. Cisneros.
St. Paul, Kodiak Id., Alaska	29.13	739.9	29.19	741.4	34	1.1	71	e.	.....	.....	6	.....	10 n	.....	.....	0.84	21.3	raining	Earl Flint.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
York Factory, B. A.	30.04	763.0	30.11	764.8	—51.0	—46.1	.....	s.	3	1.3	.....	0	0	.....	.....	0	0	hazy	Aug. Walloe.
																			Forbes & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Amethyst, N. 39° 18′, W. 59° 32′†	29.80	756.9	69	20.6	84	wnw.			2		6	se.						misty.
H. M. S. Audacious, Labuan Island, Borneo, Oceanic.	29.89	759 2	76	24.4	86	n.			1		4	n.						raining.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.06	763 5				sw.			1		4							d. clouds.
H. M. S. Carysfort, N. 29° 56′, W. 32° 33′	30.10	764 5	68	20.0	79	n.			3		2	n.						blue sky.
H. M. S. Champion, Singapore, Malay peninsula	29.97	761.2	80	26.7	78	n			2		8					2	ne.	d. clouds.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.52	775.2	35	1.7	70	calm			0		0							blue sky.
H. M. S. Comus, N. 37° 55′, W. 123° 02′	29.96	761.0	50	10.0	93	nnw.			3		2	wsw.				1	nw	misty
H. M. S. Candor, N. 31° 50′, E. 30° 40′	30.13	765.3	64	17.8	69	nnw.			3		3	nw.				3	nw.	d. clouds.
H. M. S. Constance, N. 22° 32′ W. 22° 43′	30.22	767.6	67	19.4		e.			3-4		2	ene.				3	ese.	blue sky
H. M. S. Curacoa, Yokohama, Japan	30.15	765.9	45.5	7.5	76	calm			0		4							d. clouds.
H. M. S. Diamond, S. 33° 50′, E. 151° 43′	30.26	768.6	68	20.0	69	se.			3-5		7	se.				4	se.	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.36	771.1	64	17.8	89	wsw.			1		7	wsw.						d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	30.01	762.2	80	26.7	95	ne.			1		1							d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.35	770.9	44	6.7	92	e.			0-1		7							misty.
H. M. S. Gannet, S. 36° 48′, W. 73° 35′	29.84	757.9	58.5	14.7	90	sw.			3		10					2	sw.	d. clouds.
H. M. S Heroine, N. 15° 00′, W. 25° 24′	30.07	763.8	73	22.8	85	nne.			3-4		4	nne.				5	n	misty.
H. M. S. Himalaya, N. 44° 30′, W. 9° 28′	30.04	763.0	51	10.6	93	se.			4		4					5	wsw.	d. clouds.
H. M. S. Iron Duke, N. 6° 57′ E. 79° 55′	29.97	761.2	85	29.4	75	n.			3		5	ene.				2	n.	d. clouds.
H. M. S. Lark, S. 33° 40′, E. 162° 45′	30.19	766.8	66.3	19.1	87	se.			6		8					4	se.	squally.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.34	770.6	41.5	5.3	82	calm			0		0							misty.
H. M. S. Monarch Port Said, Egypt	30.07	763.8				nw.			3		4							d. clouds.
H. M. S Mutine, S. 6° 00′, W. 101° 16′	29.97	761.2	72.5	22.5		se.			1		10					1	se.	overcast.
H. M. S Rocket, Valparaiso, Chili	29.91	759 7	64	17.8	83	calm			0		2							blue sky.
H. M. Sarapis, N. 12° 43′, E. 45° 03′	29.98	761.5	77.5	25.3	72	ese.			4		4					2	ese.	d. clouds.
H. M. S. Superb, N. 36° 45′ E. 35° 45′*	30.09	764.3	62	16.7	40	n.			3							3	nne.	d. clouds.
H. M. S. Swiftsure, Callao Bay, Peru	30.00	762.0	67	19.4	94	calm			0		10					3	s.	foggy.
H. M. S. Sylvia, Cape Providence, Patagonia	29.62	752.3	48	8.9	85	nnw.			4-6		7	wnw.						squally.
H. M. S. Tourmaline, Bombay, India	30.00	762.0				wsw.			1		0							blue sky.
H. M. S. Zephyr, N. 37° 33′ E. 121° 25′	30.43	772.9	30	— 1.1		w.			1		0					sm'h		blue sky.
Portuguese Naval.																		
Tamega, Macao, China	30.37	771.4	58.1	14.5	47	n.			4		0			0	0			blue sky.
Swedish Naval.																		
Vanadis, N. 32° 38′, E. 25° 39′	30.12	765.0	66.4	19.1	68	wnw.			1		8							squally.
United States Naval.																		
Navy Yard, Pensacola, Fla*	30.30	769.6	50	10.0	78	ne.	7	3.1			8		ne.	0	0			fair.
Navy Yard, Portsmouth, N. H*	30.48	774.2	15	— 9.4	?	n.	2	0.9			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	30.13	765.3	36	2.2	62	calm			0		8		w.	0	0			cloudy.
Adams, Sitka, Alaska†	29.67	753.6	37	2.8	80	wsw.			1		10							drizzling.
Alaska, Mare Island, Cal	29.84	757.9	43	6.1	75	calm			0		0			0	0			clear.
Alliance, N. 17° 50′, W. 63° 44′	30.12	765.0	79	26.1	95	e.			4		5			light	light	sm'h		fair.
Ashuelot, Shanghai, China	30.55	776.0	34	1.1	79	w.			1		2		calm					clear.
Brooklyn, Montevideo, Uruguay.*	29.82	757.4	69	20.6	79	nw.	19	8.5			5		nw.	0	0	sm'h		fair.
Colorado, New York, N. Y	30.51	774.9	25	— 3.9	100	calm	0	0										raining.
Enterprise, N. 36° 55′, W. 73° 20′ *	30.40	772.1	51	10.6	72	e.			3		8		calm			sm'h		fair.
Essex, Callao, Peru	29.90	759.4	67	19.4	90	calm			0		10							overcast.
Franklin, Norfolk, Va	30.43	772.9	36	2.2	70	calm	0	0			5			0	0			fair.
Galena, Montevideo, Uruguay*	29.82	757.4	68	20.0	79	n.			4		5					sm'h		hazy.
Hartford, S. 32° 48′ W. 71° 50′*	29.85	758.2	65	18.3	89	sw.			2		0					sm'h		cloudy.
Independence, Mare Island, Cal	29.97	761.2	39	3.9	100	nnw.			3		10			0	0			foggy.
Iroquois, Callao, Peru	29.97	761.2	65	18.3	90	calm			0		10							foggy.
Jamestown, Boston, Mass *†	30.43	772.9	18	— 7.8	100	calm			0		10							hazy.
Juniata, Horta, Azores Islands*	30.13	765.3	55	12.8	93	w.			2		8		w.	h'vy	h'vy	long	sw.	fair.
Kearsarge, St. Lucas, Island, W. I	30.12	765.0	80	26.7	90	ene.			2		5		e.					fair.
Lackawanna, S. 1° 17′, W. 114° 10′*	29.88	758.9	74	23.3	85	se.			3		8		se.			sm'h	se.	cloudy.
Lancaster, Genoa, Italy	29.97	761.2	57	13.9	100	se.			1		5		se.					fair.
Michigan, Erie, Pa	30.14	765.5	28	— 2.2	67	sw.			3		10		s.					cloudy.
Minnesota, New York, N. Y	30.44	773.2	24	— 4.4	87	sw.	1	0.4			5		sw.					foggy.
Monocacy, Nagasaki, Japan	30.33	770.4	47	8.3	85	ne.			1		10		wnw.					drizzling.
New Hampshire, Newport, R. I	30.45	773.4	23	— 5.0	86	ne.			1		0					sm'h		clear.
Nipsic, Lisbon, Portugal*	30.28	769.1	54	12.2	86	e.			1		10							foggy.
Onward, Callao, Peru*†	30.06	763.5	64	17.8	94	calm			0		10		n.					foggy.
Palos, Tientsin, China*	30.37	771.4	26	— 3.3	100	calm			0		0							clear.
Pensacola, Panama, U. S. C*	29.81	757.2	78	25.6	91	nw.	8	3.6			8			0	0	sm'h		fair.
Powhatan, Boston, Mass	30.44	773.2	16	— 8.9	83	nnw.			1		0							hazy.
Quinnebaug, Genoa, Italy	29.97	761.2	58	14.4	81	sse.			1		5		calm					fair.
Ranger, N. 19° 35′, W. 109° 35′*	29.94	760.5	74	23.3	81	nne.			1		10		calm	0	0	sm'h		cloudy.
Richmond, Hong-Kong, China			60	15.6	33	calm			0		0			0	0			clear.
Saratoga, New York, N. Y	30.41	772.4	24	— 4.4	75	nw.			1		1		nw.	0	0			clear.
St. Louis, League Island, Pa	30.27	768.8	23	— 5.0	100	calm			0		2		e.	0	0			clear.
Tennessee, St. Pierre, Martinique, W. I*	30.12	765.0	78	25.6	82	ene.	2	0.9			2			light	light			fair.
Vandalia, St. Thomas, W. I*	30.17	766.3	78	25.6	86	ne.			2		2		e.					fair.
Wabash, Boston, Mass	30.46	773.7	15	— 9.4	64	calm	0	0			2		nw.	0	0			clear.
Wachusetts, Mare Island, Cal	29.96	761.0	39	3.9	90	wnw.			1		0							clear.
Wyandotte, Washington, D. C			46	7.8	69	sw.			2		5		calm	0	0			fair.
Yantic, St. Vincent Island, W. I	30.16	766.1	78	25.6	86	ne.			2		5		ne.					fair.
Merchant Marine.																		
S. S. Nova Scotian, N. 42° 35′ W. 68° 28′	30.36	771.1	22	— 5.6		s.			2		2		wsw.			sm'h		fair.
S. S. Polynesian, N. 51° 29′, W. 40° 13′ *	29.37	746.0	34	1.1		wnw.			7		7		wnw.	rain	rain	long	w.	cloudy.
S. S. British Crown, Liverpool, Eng†	30.04	763.0	43	6.1		wnw.			4		2		nw.	0	0			clear.
S. S. British Prince, N. 39° 58′, W. 71° 12′†	30.42	772.7	30	2.2		var.			2		4		var.			sm'h		fine.
S. S. Indiana, N. 49° 20′ W. 31° 00′			40	4.4	82	nw.			6		5		nw.	snow	snow	r'gh	nw.	squally.
S. S. Lord Gough, Philadelphia, Pa	30.34	770.6	34	1.1		calm			0		10			0	0			cloudy.
S. S. Ohio, N. 49° 11′, W. 39° 38′†	29.44	747.8	39	3.9	91	w.			6		9		w.			h'vy	w.	squally.
S. S. Pennsylvania, Liverpool, Eng†	30.00	762.0	45	7.2	92	sew.			2		4		wnw.	0	0			cloudy
S. S. Anchoria, N. 51° 04′ W. 30° 21′†	29.33	745.0				nnw.			7		1		n.	0	0	h'vy	n.	
S. S. Bolivia, New York, N. Y	30.40	772.1	31	— 0.6	89	var.			2		mist			0	0			
S. S. Dorian, Naples, Italy*	29.91	759.7				var.								0	0			clear.
S. S. Utopia, N. 32° 47′ W. 45° 52′†	30.41	772.4	66	18.9	89	wsw.			3		5		w.	0	0	mod.	ne.	threatening.
S. S. Ailsa, N. 32° 00′, W. 74° 07′†	30.42	772.7	67	19.4	84	e.			3		10		e.			sm'h	e.	cloudy.
S. S. Antillas, Aquadilla, Puerto Rico, W. I						ne.			1		1?		ene.	0	0	mod.	ne.	cloudy.?
S. S. Ambrose, Para, Brazil†	30.04	763.0	80	26.7		calm			0					3 h'r	3 h'r			fine.
S. S. Carroll, N. 43° 18′, W. 66° 00′*†	30.57	776.5	28	— 2.2		ne.			3		8		ne.	snow	snow	sm'h	wnw.	rain & fog.
S. S. Landaff City, N. 46° 25′, W. 32° 30′*†	29.70	754.4				nw.			5		6		w.	snow	snow	h'vy	nw.	fine.
S. S. Auckland, S. 52° 12′, W. 116° 59′	29.44	747.8	48	8.9	78	w.			5		9							overcast.
S. S. Caldew, S. 16° 48′, E. 87° 27′	30.07	763.8	77	25.0	77	se.			0		3							d. clouds.
S. S. City of Agra, S. 54° 42′, W. 110° 15′	29.32	744.7	46.5	8.1	98	nw.			5		9							d. clouds.
S. S. Commewyne, N. 49° 23′, W. 17° 59′	29.41	747.0	53.5	11.9	98	s.			7		10							raining.
S. S. Gordon Castle, Suez, Canal, Egypt	30.11	764.8	71.5	21.9	55	s.			1		1							blue sky.
Inchkeith, S. 0° 18′, E. 91° 38′	29.98	761.5	80.5	26.9	87	var.			1		6							d. clouds.
St. Kilda, N. 20° 18′, W. 61° 40′	30.22	767.6	78.5	25.8	82	ene.			4		4							raining.
S. S. Scotia, N. 46° 30′, W. 7° 26′	30.11	764.8	54	12.2	80	se.			4		7							d. clouds.
S. S. Lake Huron, N. 45° 13′, W. 49° 21′*	29.63	752.6	25	— 3.9		nw.			7		8		nw.	snow	snow	r'gh	nw.	snowy.
S. S. Bothnia, N. 49° 50′, W. 25° 35′	28 89	733.8	48	8.9	92	nw.			8		10		w.	r'gh	r'gh	h'vy	w.	
S. S. Marathon, Liverpool, Eng.	29.98	761.5	49	9.4		nnw.			3		2		nnw.	0	0			fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mil.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Force.	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mil.			
MERCHANT MARINE.—Continued.																		
S. S. Pavonia, N. 50° 21′, W. 23° 22	28.85	732.8	49	9.4	85	w.			8		mist		w.	0	0	h'vy	w.	misty.
S. S. Colina, St. Johns, N. F†	29.65	753.1				nw.			4		1		wnw.	0	0	sm'h		clear.
S. S. Rhinwidda, N. 41° 38′, W. 65° 15′						w.			4		9		wsw.	0	0	sm'h	wnw.	
S. S. Labradore, New York, N. Y						s.			3		3		sse.	0	0	sm'h		clear.
S. S. Abyssinia, N. 51° 22′, W. 19° 21′	29.52	749.8	54	12.2	93	sse.			8		10		var.	1 h'r	1 h'r	r'gh	sw.	showery.
S. S. Wyoming, N. 40° 56′, W. 68° 50′	30.45	773.4	32	0.0		calm			0					0	0			fair.
S. S. Bohemia, Hamburg, Germany						var.			5		10		wnw.	3 h'r	3 h'r			squally.
S. S. Silesia, New York, N. Y†	30.36	771.1	28.0	—2.2		calm			0		5			0	0			cloudy.†
S. S. Vandalia, N. 48° 16′, W. 24° 24′	29.43	747.5	49.1	9.5		wnw.			8		10		w.			h'vy	wnw.	rainy.
S. S. Wieland, N. 49° 41′, W. 14° 03′	29.77	756.1				sswv.			6		10		sw.	driz	driz	high	sw	threatening.
S. S. Mentmore, N. 50° 55′, W 28° 21′						wnw.			9		8		wnw.	3 h'r	3 h'r	high	wsw.	threatening.
S. S. Archimedes, N. 8° 11′ W. 28° 32′	29.94	760.5				ne.			4		2		ese.	0	0	light	n.	clear.
S. S. Hevelius, Liverpool, Eng†	30.02	762.5	48	8.9		wnw.			5		3		wsw.	12 h'r	12 h'r			clear.
S. S. Sirius, S. 13° 00′, W. 36° 20′ *	30.00	762.0				ne.			2		1		ne.	0	0	sm'h		clear.
S. S. Bulgarian, N. 42° 49′, W. 63° 42′*	30.43	772.9				wnw.			1		8		nw.	2 h'r	2 h'r	sli't	nw.	cloudy.
S. S. Colorado, N. 28° 55′ W. 93° 36′†	30.15	765.8	60	15.6		e.			6		10		e.			high	e.	cloudy.
S. S. Rio Grande, N. 30° 30′, W. 76° 20′†	30.30	769.6	73	22.8		ene.			2		10		e.	7 h'r	7 h'r	long	ese.	overcast.
S. S. San Marcos, Galveston, Texas	30.18	766.6	52	11.1		ne.			5					0	0			foggy.
S. S. Archimede, Marseilles, France†	30.08	764.0	60	15.6	71	nnw.			3		2		nw.	0	0			clear.
S. S. Hermod, N. 49° 37′, W. 22° 52′†	29.02	737.1	50	10.0		wsw.			10		10		sw.	0	0	high	sw.	hazy.
S. S. Alleghany, Boston, Mass†	30.48	774.2	14	—10.0		calm			0		0			0	0			clear.
S. S. Glenfyne, N. 11° 13′, W. 52° 05′						e.			5		2		e.	0	0	r'gh	e.	fair.
S. S. Brooklyn, Portland, Me			20	— 6.7		wnw.			1				nw.	0	0			clear.
S. S. Chalmette, N. 25° 35′, W. 80° 05′†	30.24	768.1	74	23.3		e.			4		3		e.	1 h'r	1 h'r	sm'h		clear.
S. S. Lone Star, N. 25° 47′, W. 79° 56′ †	30.22	767.6	74	23.3		ese.			2		5		e.	2 h'r	2 h'r	sm'h		fair.
S. S. New York, N. 28° 20′, W. 88° 10′†	30.27	768.8	70	21.1		ese.			4		8		ese.	0	0	sm'h	e.	cloudy.
S. S. Denmark, New York, N. Y†	30.37	771.4	29	—1.7		sw.			1		10		sw.	0	0			light fog.
S. S. England, N. 42° 23′ W. 49° 19′	29.99	761.7				w.			6		5		w.	sq 'lls	sq 'lls	mod.	w.	squally.
S. S. Erin, Liverpool, Eng*†	30.05	763.3	37	2.8		wnw.			4		4		w.	0	0			hazy.
S. S. Helvetia, New York, N.Y	30.33	770.4	32	0.0		w.			1		5		w.	0	0			fine.
S. S. The Queen, Sandy Hook, N. J	30.45	773.4	31	— 0.6		se.			4		2		wnw.	0	0	sm'h		clear.
S. S. Santiago, N. 38° 01′ W. 73° 42′	30.44	773.2			78	se.			2		0			0	0			
S. S. City of Alexandria, Vera Cruz, Mexico †	30.11	764.8	69	20.6	90	nnw.			4		3		nw.	0	0	r'gh	n.	clear.
S. S. City of Washington, N. 22° 44′, W. 85° 26′†	30.18	766.6	75	23.9		ese.			2		5		e.	0	0	light	ne.	fine.
S. S. Alps, N. 18° 30′, W. 75° 20′	30.09	764.3	83	28.3		nne.			2							sm'h		clear.
S. S. Alene, N. 25° 30′, W. 74° 20′ †	30.22	767.6	75	23.9		se.			3							sm'h		fair.
S. S. Braunschweig, S. 24° 15′, W. 41° 22′	29.96	761.0	78.0	25.6	86	e.			3		8		se.	1 h'r	1 h'r	mod.	e.	cloudy.
S. S. Donau, N. 43° 14′, W. 49° 56′	29.95	760.7				w.			5		8		w	hail	hail	mod	w.	cloudy
S. S. Neckar, N. 49° 43′, W. 5° 58′	30.17	766.3	54.5	12.5	61	w.			3		5		w.	0	0	sm'h	wnw.	fair.
S. S. Salier, Brouwershaven, Netherlands	29.73	755.1	45	7.2		w.			5		10		w.	h'vy	h'vy			cloudy.
S. S. Strassburg, S. 28° 40′ W. 46° 41′	30.01	762.2	74.0	23.3	90	nnw.			3		8?		nnw.	0	0	sm'h	nnw.	clear.?
S. S. Werra, N. 47° 51′, W. 42° 02′	29.66	753.3	37.4	3.0		nw.			3		8		nw.	0	0	sm'h	nw.	overcast.
S. S. Belgic, N. 35° 39′, W. 150° 58′*†	30.34	770.0	61	16.1	82	w.			1		4		w.	0	0	high	w.	fair.
S. S. Gaelic, N. 34° 55 , E. 172° 53′	29.77	756.1	58	14.4	94	w.			4		10		w.				w.	raining.
S. S. Oceanic, N. 44° 20′, E. 159° 05′*	29.54	750.3	30	—1.1	89	wnw.			8		8		wnw.			long	wnw	snowing.
S. S. City of Augusta, Savannah, Ga†	30.26	768.6				calm			0		10			0	0			cloudy.
S. S. Mississippi, Seattle, Wash. Ter *†	29.98	761.5	37	2.8		ese.			1		10		e.					cloudy.
S. S. Willamette, Fuca Strait, Wash. Ter †	29.86	758.4	37	2.8	81	ese.			2		10		se.	0	0			overcast
S. S. Oregon, San Francisco, Cal†	29.89	759.2	55	12.8	93	calm			0		0							hazy.
S. S. Ancon, San Francisco, Cal†	29.85	758.2	44	6.7	92	calm			0		10		w.					hazy.
S. S. City of Chester, San Francisco, Cal*†	29.92	760.0	44	6.7	92	nw.			1		5							fair.
S. S. G. W. Elder, Victoria, B. C†	29.91	759.7	33	0.6	70	calm			0					0	0	sm'h		clear.
S. S. Orizaba, N. 32° 40′ W. 117° 14′ *†	29.82	757.4	56	13.3	87	se.			3		5		se.	0	0	long	s.	cloudy.
S. S. State of California, Portland, Oregon†	29.86	758.4	29	—1.7	?	ne.			2		10		ne.	snow	snow			overcast.
S. S. Victoria, off Point Arena, Cal*†	29.94	760.5	49	9.4		nnw.			3		5		ene.			light	nnw.	fair.
S. S. City of New York, S. 32° 17′, E. 178° 15′†	29.94	760.5	72	22.2	80	e.			5		8		e.	2 h'r	2 h'r	mod.	ne.	squally.
S. S. City of Sydney, S. 14° 00′ W. 170° 19′ †	29.77	756.1	82	27.8	83	nw.			4		10		nnw.			r'gh	nnw.	drizzling.
S. S. City of Tokei, N. 24° 25′, E. 119° 39′†	30.30	769.6	62	16.7	83	nne.			8		8		nne.	0	0	h'vy	nne.	hazy.
S. S. Colima, N. 10° 52′, W. 87° 27†	29.95	760.7	79	26.1	100	nne.			0		2		n.	0	0	r'gh	nne.	clear.
S. S. Grenada, N. 27° 50′, W. 115° 28′ *†	29.89	759.2	60	15.6	82	sw.			4		0			4 h'r	4 h'r	mod.		clear.
S. S. San José, N. 8° 54′, W. 79° 30′*†	29.84	757.9				ne.			1		5 8		nne.	0	0	cross	sw.	fair.
S. S. Zealandia, Sydney, N. S. W*	30.08	764.0	69	20.6	80	e.			4		0							fine.
S. S. Muriel, N. 28° 29′, W. 67° 59′*	30.39	771.9	70	21.1		ese.			3		0			0	0	mod.	ne.	clear.
S. S. Valencia, Puerto Cabello, Venezuela†	30.13	765.3	80	26.7	87	ene.			2		1		ene.	0	0			fine.
S. S. Belgenland, N. 48° 56′, W. 11° 05′			53	11.7	86	sse.			6		9		se.	0	0	rg'h		squally.
S. S. Nederland, N. 44° 24′, W. 56° 33′			27	—2.8		wnw.			6		8		w.	snow	snow	r'gh	wnw.	squally.
S. S. Penniland, Antwerp, Belgium	29.96	761.0	46	7.8	92	wsw.			5		6		w.	7 h'r	7 h'r			fine.
S. S. Rhyniand, N. 50° 20′, W. 20° 00′	29.34	745.2	47	8.3	92	sw.			9		8		• sw.	5 h'r	5 h'r	high	sw.	squally.
S. S. Switzerland, N. 44° 28′, W. 50° 45′††	29.87	758.7				wnw.			6		10		wnw.	snow	snow	r'gh	wnw.	cloudy.
S. S. Waesland, Jersey City, N. J	30.48	774.2	32	0.0		sw.			3		10		w.	0	0			cloudy.
S. S. Maas, New York, N. Y	30.40	772.1	30.7	—0.7		calm			0		10							foggy.
S. S. Schiedam, N. 49° 40′, W. 10° 59′	29.84	757.9	59.5	15.3	89	sse.			5		6		s.	3 h'r	3 h'r	cross	sw.	cloudy.
S. S. W. A. Scholten, N. 47° 43′, W. 37° 04′	29.66	753.4	42.4	5.8	91	w.			6		5		w.	snow	snow	cross	w.	squally.
S. S. State of Florida, Glasgow, Scotland	29.86	758.4	47	8.3		ssw.			2		10		calm	6 h'r	6 h'r			overcast.
S. S. State of Georgia, N. 50° 10′, W. 38° 24′†	29.50	749.3	38	3.3		nw.			6		6		nw.	snow	snow	mod.	nw.	
S. S. Baltic, N. 44° 24′, W. 46° 13′*	29.77	759.1	37	2.8	81	nnw.			4		5		nnw.	snow	snow	mod.	nw.	snowing.
S. S. Romano, N. 49° 37′, W. 9° 20′ *†	30.04	763.0	51	10.6		sse.			5		5		se.	4 h'r	4 h'r	cross	w.s	dull.
S. S. Salerno, N. 47° 41′, W., 38° 25′	29.58	751.3	44	6.7		w.			5		10		w.	3 h'r	3 h'r	r'gh	w.nw	hailing.
S. S. Aries, N. 40° 10′, W. 73° 25′*†	30.32	770.1				sse.			5		2		s.	0	0	mod.	s.	
S. S. Catherine Whiting, Philadelphia, Pa†	30.39	771.9				ssw.			5					0	0			
S. S. Norman, N. 39° 59′, W. 75° 08′ †	30.41	772.4				ssw.			1				se.	0	0			clear.
S. S. Saxon, N. 40° 02′, W. 73° 25′ †	30.35	770.9	36	2.2		ssw.			3		4			0	0	sm'h		fine.
MISCELLANEOUS.																		
Bk. Adelaide, N. 13° 52′, W. 34 33′*†	30.14	765.5	78	25.6		ene.			5				ene.	0	0	mod.	ene.	clear.
Bk. Alpha, N. 13° 30′, W. 40° 40′*†	30.08	764.0	80	26.7		e.			5		4		e.	0	0	long	ne.	fair.
Schr. Annie Holton, N. 22° 11′, W. 95° 30′†	30.09	764.3	70	21.1		wnw.			4		10		nw.	4 h'r	4 h'r	r'gh	nw.	cloudy.
Bk. Anna Thormann, S. 34° 37′ E. 17° 51′	30.07	763.8	67.5	19.7	72	wnw.			1		1 8		s.	0	0	long	ssw.	clear.
S. S. Antonio Lopez, Cadiz, Spain	30.23	767.8	60	15.6	76	s.			3		8			0	0			hazy.
Bk. Aquidneck, N. 21° 12′, W. 61° 32′			82	27.8		ne.			3		1		ne.	0	0	light	ne.	clear.
Bgt. Arthur, N. 2° 50′, W. 13° 25′ *†.	30.00	762.0				sse.			5				var.	2 h'r	2 h'r		var.	fair.
Bk. B. F. Watson, N. 15° 40′, E. 133° 33′†	29.99	761.7	80	26.7		ese.			4		0			0	0	r'gh	ne.	clear.
Bg. Belle of the Bay, Galveston, Texas†	30.23	767.8				ne.			4		10		ne.	0	0			threatening.
Bk. Bremen, N. 51° 35′, E. 2° 01′						w.			5		9		wnw.	0	0	mod.	var.	cloudy.
S. S. Burswell, N. 36° 37′, W. 62° 20′.*†.	30.37	771.4	62	16.7		nnw.			3		6		ne.	1 h'r	1 h'r	str'g	n.	fine.
Bk. Champion, Philadelphia, Pa			35	1.7		nw.			4		5		nw.	0	0			fair.
Bk. Commerce, N. 38° 53′, W. 56° 55′ †	30.13	765.3	51	10.6		nw.			6		5		nw.	7 h'r	7 h'r	long	nw.	fair.
Bk. E. D. Bigelow, N. 48° 20′, W. 5° 56′*†	30.10	764.5				s.			1		5		sw.	0	0	long	wnw.	
Schr. Edith R. Seward, Wilmington, N. C†	30.38	771.6	42	5.6		nne.			1		0		calm	0	0			fair.
Bk. Edmund Phinney, N. 13° 25′, W. 35° 14′ †	30.11	764.8	76	24.4		ese.			6		5		ese.	0	0	r'gh	ese.	fair.
S. S. L. J. Spicer, Liverpool, Eng*	30.01	762.2	52	11.1	93	nw.			7		10†		nw.	10 h'r	10 h'r			clear?
Bk. E. L. Pettingill, S. 20° 08′, W. 122° 04′*†	30.10	764.5	80	26.7		nnw.			2		5		ne.	0	0	sm'h	ssw.	fair.
Bk. Essex, S. 16° 01′ E. 45° 52′ *†	29.93	760.2	89	31.7		nnw.			2		10			shr's	shr's	light	ne.	fine.
Schr. F. E. McDonald, N. 34° 09′, W. 76° 30′†	30.35	770.9	59	15.0		nne.			4		fg.			0	0	mod.	ne.	fine.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†	30.40	772.1	32	0.0		ene.			1		9		calm					cloudy.
S. S. Foscolia, N. 49° 26′, W. 12° 43′*†	29.80	756.9				sse			6		10		s.	5 h'r	5 h'r	cross		drizzling

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MISCELLANEOUS.—(Continued.																	
Bk. Freya, Matanzas, Cuba, W. I.	.....	.....	72	22.2	.....	calm	.....	.....	0	.....	5	.....	ene.	.....	0	0	.....	.....	fair.
Bg. George, Ponce, Porto Rico, W I*†.	30.20	767.1	.....	.....	.....	e.	.....	.....	5	.....	8	.....	e.	shr's	shr's	mod.	.....	cloudy.
S. Geo. Stetson, N. 23° —′ W. 34° —′ *†.	30.15	765.8	76	24.4	91	se.	.....	.....	2	.....	4?	.....	w.	0	0	sm'h	e.	cloudy.?
Bk. Gronsvaer, Auckland, N. Z.	29.97	761.1	75.8	24.3	.....	wnw.	.....	.....	2	.....	5	.....	wnw.	0	0	.....	.....	fair.
Bk. Hattie G. McFarland, N. 12° 02′, W. 56° 43′*†	30.20	767.1	78	25.6	.....	e.	.....	.....	6	.....	3	.....	e.	0	0	sharp	e.	
Schr. Hattie Weston, N. 35° 20′, W. 68° 00′ *†.	30.50	774.7	58	14.4	.....	ene.	.....	.....	3	.....	10	.....	e.	0	0	mod.	nne.	cloudy.
S. Hedwig, N. 39° 30′, W. 54° 27′	30.21	767.3	50.9	10.5	.....	nw.	.....	.....	7	.....	7	.....	wnw.	2 h'r	2 h'r	4	nw.	squally.
Schr. Isabel Alberto, Jersey City, N. J. †	30.35	770.9	.....	.....	.....	sw.	.....	.....	3	.....	5	.....	sw.	0	0	.....	.....	fair.
Schr. John L. Thomas, N. 32° 48′, W. 70° 32′*†.	30.40	772.1	.....	.....	.....	nw.	.....	.....	1	.....	2	.....	s.	0	0	mod.	nnw.	fine.
Bkt. Josephine, N. 4° 43′, W. 25° 03′†	29.98	761.5	82	27.8	75	calm	.....	.....	0	.....	10	.....	.....	1 h'r	1 h'r	long	n.	cloudy.
S. S. J. W. Wilson, Port Eads, La*†.	30.15	765.8	60	15.6	.....	e.	.....	.....	2	.....	5	.....	e.	0	0	.....	.....	fair.
Light House Tender, Laurel, Key West, Fla†	30.15	765.8	71	21.7	.....	ne.	.....	.....	2	.....	4	.....	ne.	0	0	.....	.....	fair.
Bg. Lilian, N. 20° 29′, W. 57° 50′†	30.31	769.9	78	25.6	.....	ene.	.....	.....	4	.....	8	.....	e.	3 h'r	3 h'r	r'gh	var.	squally.
Bk. Louise Adelaide, Vera Cruz, Mexico	.....	.....	.....	.....	.....	w.	.....	.....	1	.....	5	.....	.....	0	0	sm'h	n.	fine.
Schr. Minnie A. Bonsall, Jacksonville, Fla†	30.31	769.9	61	16.1	.....	ne.	.....	.....	5	.....	2	.....	ne.	0	0	long	nne.	clear.
S. Minnie N. Gerow, N. 31° 11′, W. 67° 38′ *†.	30.32	770.1	.....	.....	.....	nne.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	cloudy.
S. M. P. Grace. S. 51° 31′, W. 52° 07′ *†.	29.03	737.3	44	6.7	.....	se.	.....	.....	2	.....	10	.....	w.	.....	.....	mod.	ne.	overcast.
Bg. Myrtle, N. 32° 02′, W. 60° 44′	.....	.....	.....	.....	.....	sw.	.....	.....	4	.....	6	.....	nw.	1 h'r	1 h'r	short	nnw.	fine.
Bkt. Norena, N. 30° 24′, W. 73° 51′*†	30.40	772.1	.....	.....	.....	nw.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	fair.
Bg. O. C. Clary, Mirugoane, Hayti, W. I.*†.	30.04	763.0	82	27.8	91	nne.	.....	.....	1	.....	9	.....	ne.	0	0	light	.....	cloudy.
Bk. Ottawa, N. 35° 57′, W. 5° 29′*	30.21	767.3	62	16.7	.....	sse.	.....	.....	1	.....	1	.....	e.	.....	.....	.....	.....	
S Paramita, San Francisco, Cal.	.....	.....	51	10.6	.....	e.	.....	.....	4	.....	3	.....	e.	0	0	sm'h	.....	clearing.
Schr. Pearl Nelson, Norfolk, Va*†	30.28	769.1	.....	.....	.....	sw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	.....	clear.
S. S. Raleigh, Kingston, Jamaica, W. I*†.	30.01	762.2	79	26.1	.....	se.	.....	.....	2	.....	7	.....	se.	.....	.....	.....	.....	foggy.
Bk. Reindeer, N. 31° 58′, W. 67° 30′*	30.24	768.1	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	fine.
Schr. S. B. Hubbard, Jacksonville, Fla*†	30.32	770.1	59	15.0	.....	calm	.....	.....	0	.....	8	.....	.....	0	0	sm'h	.....	
Bk. Scud, N. 36° 30′, W. 67° 35′*†	30.53	775.4	59	15.0	.....	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	.....	threatening.
Bk. Southern Belle, N. 37° 25′, W. 20° 15′ *†	30.00	762.0	58	14.4	.....	ne.	.....	.....	3	.....	8	.....	n.	0	0	sm'h	.....	cloudy.
S. Sovereign of the Seas, N. 15° 40′, W. 119° 30′*†	30.06	763.5	75	23.9	86	wnw.	.....	.....	6	.....	2	.....	wnw.	½h'r	½h'r	r'gh	sw.	clear.
Bk. Sunbeam, N. 42° 05′, W. 24° 04′*†	29.90	759.4	59	15.0	82	ne.	.....	.....	2	.....	9	.....	.....	0	0	short	ese.	cloudy.
S. S. Sunbeam, New Orleans, La.	30.27	768.8	49	9.4	93	w.	.....	.....	8	.....	8	.....	w.	6 h'r	6 h'r	h'vy	w.	cloudy.
S. Titan, N. 37° 01′, W. 61° 21′*†	30.46	773.7	58	14.4	70	ene.	.....	.....	2	.....	9	.....	e.	0	0	.....	.....	d. clouds.
Bk. Vincenzo Accame, N. 32° 06′ W. 73° 00′	.....	.....	71	21.7	.....	nw.	.....	.....	4	.....	2	.....	nw.	1 h'r	1 h'r	sm'h	nw.	clear.
Bk. Wandering Jew, Montevideo, Uruguay†	29.90	759.4	71	21.7	.....	ssw.	.....	.....	3	.....	6	.....	sw.	0	0	.....	.....	fine.
Schr. Wm. Wiler, St. John's River, Fla†	30.31	769.9	.....	.....	.....	n.	.....	.....	6	.....	4	.....	n.	0	0	.....	.....	clear.
Bk. Xenia, N. 38° 10′, W. 70° 03′*†	30.39	771.9	50	10.0	.....	nne.	.....	.....	1	.....	5	.....	n.	0	0	.....	.....	fair.
						s.	.....	.....	1	.....	0	.....	.....	0	0	mod.	w.	clear.

International Chart I. January 3, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 4, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.31	769.8	64.4	18.0	92	n.	.....	.....	3	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.27	768.9	60.1	15.6	77	w.	.....	.....	2	.....	0	.....	.....	0	0	clear	Thève.
La Calle	.....	.....	30.17	766.4	60.4	15.8	68	wnw.	.....	.....	4	.....	4	.....	.....	0	0	cloudy	Fonfréde.
Tunis	.....	.....	30.15	765.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.32	770.0	62.2	16.8	50	ese.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Pérès.
Tebessa	.....	.....	30.31	769.8	51.8	11.0	82	n.	.....	.....	3	.....	0	.....	.....	0	0	clear	Dognon.
Geriville	.....	.....	.....	.....	55.0	12.8	77	nw.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Lonchamp.
Laghouat	.....	.....	30.38	771.6	62.2	16.8	32	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.30	769.5	63.7	17.6	32	nw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.99	761.7	30.08	764.0	66.0	18.9	64	s.	3	1.3	.....	.....	1	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.48	748.7	30.04	763.1	39.2	4.0	98	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.12	739.6	29.91	759.8	35.6	2.0	85	wnw.	12.3	5.5	.....	.....	10	.....	.....	0.154	3.9	.....	Dr. Wierzbiski.
Eperies	28.94	735.1	29.85	758.2	36.1	2.3	93	nw.	.....	.....	3	.....	10	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.73	729.7	30.00	762.1	45.1	7.3	50	nw.	.....	.....	5	.....	3	.....	.....	0.028	0.7	.....	Andreas Rospini.
Hermannstadt	28.38	720.8	29.83	757.7	41.9	5.5	71	w.	.....	.....	2	.....	10	.....	.....	0.094	2.4	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.79	731.3	30.19	766.9	35.1	1.7	84	w.	.....	.....	2	.....	10	.....	.....	0.079	2.0	.....	The Staff.
Lemberg	28.77	730.7	29.78	756.5	36.1	2.3	91	nw.	.....	.....	3	.....	10	.....	.....	0.071	1.8	.....	Dr. T. Stanecki.
Neu Schmecks	26.38	670.1	29.87	758.8	29.8	— 1.2	88	calm	.....	.....	0	.....	10	.....	.....	0.205	5.2	.....	Dr. V. von Szontagh.
Pola	29.92	760.0	30.04	762.9	50.0	10.0	84	wnw.	.....	.....	2	.....	4	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.36	745.7	29.82	757.4	36.7	2.6	96	sw.	.....	.....	1	.....	.....	.....	.....	0.028	0.7	.....	Joseph Midlinszky, S. J.
Szegedin	29.62	752.4	29.91	759.7	43.9	6.6	71	w.	.....	.....	2	.....	7	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.94	760.5	30.04	763.0	46.2	7.9	88	w.	.....	.....	1	.....	7	.....	.....	0	0	.....	Royal Academy.
Vienna	29.33	745.0	30.07	763.7	41.7	5.4	62	nw.	.....	.....	3	.....	2	.....	.....	0.094	2.4	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.06	763.5	30.16	766.1	41.6	5.3	81	sse.	13	5.8	.....	.....	10	.....	.....	0.020	0.5	overcast	W. Boswell
Armagh, Observatory	29.74	755.4	29.97	761.2	45.3	7.4	83	sse.	20	8.9	.....	.....	10	.....	.....	.....	.....	squally	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.10	764.5	42.7	5.9	68	ese.	19	8.5	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.59	751.6	30.13	765.3	41.4	5.2	78	se.	6	2.7	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth.
Bradford, Yorkshire	29.75	755.6	30.15	765.8	41.3	5.2	86	se.	.....	.....	2	.....	10	.....	.....	0.01	0.3	overcast	McLandsborough&Preston
Bridgetown, Barbadoes	30.03	762.7	30.06	763.5	80.0	26.7	74	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington	.....	.....	.....	.....	43.0	6.1	88	se.	.....	.....	0.6	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	30.07	763.8	30.21	767.3	43.1	6.2	87	se.	.....	.....	1	.....	10	.....	.....	.....	.....	misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.76	755.9	29.99	761.7	47.7	8.7	88	se.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	The Staff.
Fort Napier, Natal	27.71	703.8	29.93	760.2	72.0	22.2	59	e.	.....	.....	1	.....	9	.....	.....	.....	.....	overcast	Corpl. F. Milner, A. H. C.
Galway	29.74	755.4	29.78	756.4	49	9.4	85	s.	.....	.....	3	.....	8	.....	.....	0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.28	769.1	30.34	770.6	60.0	15.6	97	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Sgt. J. Norris, A. H. C.
Glasgow, Observatory	29.89	759.2	30.09	764.3	40.0	4.4	70	e.	.....	.....	4	10 ck	0	.....	.....	.....	.....	gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.02	762.5	30.20	767.1	43.5	6.4	79	ese.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	29.90	759.4	30.20	767.1	46.1	7.8	69	sse.	.....	.....	2	.....	8	.....	.....	blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.16	766.1	30.20	767.1	44.4	6.9	75	se.	12	5.4	.....	.....	10	.....	.....	.....	.....	misty	The Staff.
Leicester, Museum	29.85	758.2	30.11	764.8	42.7	5.9	79	se.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.92	760.0	29.99	761.7	61.8	16.6	63	s.	.....	.....	3	.....	8	.....	.....	0	0	overcast	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.22	767.6	30.27	768.8	74.0	23.3	90	e.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	C. S. Duncombe
Oscott, St. Mary's College	29.59	751.6	30.13	765.3	41.6	5.3	79	se.	.....	.....	3	.....	10	.....	.....	.....	.....	d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.94	760.5	30.17	766.3	44.2	6.8	74	se.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	The Staff.
Plymouth	29.97	761.2	30.05	763.3	48.8	9.3	75	se.	.....	.....	5	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	29.97	761.2	30.07	763.8	38.3	3.5	90	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.73	755.1	29.79	756.7	49.0	9.4	85	s.	.....	.....	1	.....	10	.....	.....	.....	.....	drizzling	W. H. Lyne.
Sheffield	29.86	758.4	30.10	766.1	41.6	5.3	89	s.	.....	.....	1	.....	10	.....	.....	0	0	overcast	W. F. Cooper.
Silloth Rectory	30.05	763.3	30.08	764.0	41.1	5.1	76	se.	.....	.....	3	.....	10	.....	.....	0.030	0.8	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.14	765.5	41.9	5.5	73	ese.	9	4.0	.....	.....	8	.....	.....	0	0	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	30.00	762.0	30.23	767.8	44.9	7.2	77	se.	.....	.....	2	.....	10	.....	.....	0	0	d. clouds	Rev. C. H. Grimes, F. M. S.
Truro, Royal Institution	29.89	759.2	29.94	760.5	50	10.0	93	s.	.....	.....	3	.....	10	.....	.....	0	0	raining	W. Newcombe.
Valencia, Observatory	29.65	753.1	29.67	753.6	50.4	10.2	90	ese.	27	12.1	.....	.....	10	.....	.....	0	0	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.79	756.7	29.84	757.9	11	—11.7	58	w.	23	10.3	.....	0	0	.....	.....	0.020	0.5	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.87	758.7	29.93	760.2	3	—16.1	87	nw.	18	8.0	.....	0	0	.....	.....	0.02	0.5	clear	G. A. Blair.
Cornwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dalhousie	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Father Point, Quebec*	30.09	764.3	30.12	765.0	— 6	—21.1	79	nw.	35	15.6	.....	.....	10 8	.....	.....	inap.	inap.	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.68	753.9	30.72	780.3	—36	—37.8	100	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	29.81	757.2	29.95	760.7	18	— 7.8	76	w.	11	4.9	.....	2 k	0	n.	.....	0.140	3.6	fair	A. Allison.
Kingston, Ontario*	30.16	766.1	30.54	775.7	3	—16.1	72	nw.	4	1.8	.....	5 cs	0	calm	.....	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	30.25	768.3	30.49	774.4	— 5	—20.6	83	nw.	15	6.7	.....	0	0	.....	.....	0.08	2.0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.84	757.9	30.04	778.2	— 9	—22.8	58	calm	0	0	.....	0	0	.....	.....	0.30	7.6	clear	Rev. R. Mosley.
Port Dover, Ontario	29.80	756.9	30.57	770.5	13	—10.6	81	n.	3	1.3	.....	8 c	0	nw.	.....	0	0	fair	H. Morgan.
Port Stanley, Ontario	29.84	757.9	30.50	776.2	13	—10.6	83	n.	2	0.9	.....	.....	10 k	.....	n.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.95	760.7	30.32	770.1	— 8	—22.2	86	nw.	.....	.....	5	0	sk.	.....	.....	0.06	1.5	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	30.07	763.8	30.61	777.5	—12	—24.4	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.76	755.9	30.50	770.2	8	—13.3	96	ne.	7	3.1	.....	.....	10 ks	.....	.....	0.05	1.3	cloudy	.....
St. Andrews, N. B	30.05	763.3	30.11	764.8	9	—12.8	94	nw	5	2.2	.....	0	0	.....	.....	0.19	4.8	clear	.....
Sydney, C. B*	29.63	752.6	29.70	754.4	19	— 7.2	100	nw.	30	13.4	.....	.....	10 n	.....	nw.	0.15	3.8	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	30.14	765.5	30.59	776.2	11	—11.7	80	n.	7	3.1	.....	.....	10 ks	.....	w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.01	762.2	30.08	764.0	23	— 5.0	76	nw.	23	10.3	.....	0	5 k	.....	nw.	0.03	0.8	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St Francis Lt. House	29.94	760.5	29.97	761.2	73.0	22.8	97	e.	6.0	2.7	.....	0	1 8	.....	.....	0	0	clear	John Duthie.
Springbok Fontein	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.01	635.2	.....	.....	13.6	—10.2	.....	ese.	.....	.....	1	.....	0	.....	.....	0.402	10.2	clear	
Tchang-kia-tchouang	30.62	777.8	30.73	780.6	28.2	— 2.1	71	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	**Mission, S. J.**
Zi-Ka-Wei, near Shanghai	30.54	775 7	30.56	776.3	30.7	— 0.7	66	wnw.	0.9	0.4	.....	0	0	.....	.....	0	0	clear	**M. Marc Dechevrens .S.J**
Danish.																			
Copenhagen	30.04	763.0	30.09	764.2	34.0	1.1	89	wnw.	9	4	.....	.....	0	.....	.....	.....	.....	.....	**Oversergent Fischer.**
Fanoe	30.18	766 5	30.20	767.0	36.0	2.2	89	nw.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	**Overlooerer Lauridsen.**
Godthaab, Greenland	28.70	728.9	28.74	730.0	27.0	— 2.8	62	e.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	**S. Kleinschmidt.**
Ivigtut, Greenland	28.75	730.2	28.77	730.7	28.8	— 1.8	.....	se.	.....	.....	3	.....	9	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.08	738.6	29.13	739.8	17.6	— 8.0	.....	n.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.22	742.2	29.26	743.3	40.1	4.5	96	se.	.....	.....	6	.....	8	.....	.....	.....	.....	raining	**A. O. Thorlacius.**
Thorshavn	30.04	763.1	30.08	764.0	42.1	5.0	77	se.	23.5	10.5	.....	.....	10	.....	.....	.....	.....	.....	**Overlooerer Bergh.**
Vestervig	30.09	764.3	30.18	766.6	35.8	2.1	96	nnw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	**Loerer Oesterbol.**
Upernavik, Greenland	29.47	748.6	29.52	749.8	—17.9	—27.7	.....	e.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	29.37	745 9	30.02	762.6	51.8	11	86	calm	.....	.....	0	.....	kn	.....	.....	0	0	.....	**M. Labroue, Director.**
Alençon, Normal School	29.03	752.5	30.18	766.5	45.7	7.6	97	sw.	.....	.....	1	.....	ks	ne.	ne.	0	0	.....	**M. Nicot, Director.**
Arras, Engineer School	29.97	761.3	30.24	768.1	43.9	6.6	88	s.	.....	.....	1	.....	hz	.....	.....	0	0	hazy	**M. Fénéon, Command't.**
Avignon, Normal School	30.03	762.8	30.11	764.8	50.0	10	54	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. Giraud, Director.**
Bar-sur-Seine	29.66	753.4	30.24	768.2	40.3	4.6	97	s.	.....	.....	1	0	5 k	.....	.....	0	0	cloudy	**M. Saillard, Director.**
Beauvais, Normal School	29.97	761.2	30.24	768.2	45.9	7.7	66	sse.	.....	.....	1	.....	5	.....	sse.	0	0	cloudy	**M. Frère Eugène Marié.**
Besançon, Normal School	29.16	740.6	30.11	764.7	45.5	7.5	66	e.	.....	.....	1	.....	cn	.....	sw.	0.295	7.5	.....	**M. Gobin, Director.**
Bordeaux, Observatory	29.84	758.0	30.11	764.8	42.4	5.8	91	se.	.....	.....	1	.....	10	.....	.....	0.004	0.1	covered	**M. Rayet, Director.**
Bourges, Normal School	29.62	752.3	30.30	769.6	44.0	7	85	nne.	.....	.....	1	.....	n	.....	nne.	0	0	.....	**M. Malet, Director.**
Brest, Naval Observatory	29.82	757.4	30.06	763.6	49.3	9.6	92	se.	.....	.....	3	.....	10	.....	se.	.....	.....	raining	**M. de Kermarec, Dir.**
Caen, Normal School	30.27	768.8	30.35	770.8	45.0	7.2	69	nnw.	.....	.....	1	.....	5	.....	nw.	0	0	cloudy	**M. Berson, Director.**
Châlons-sur-Marne, N.Sch	29.93	760.2	30.20	768.6	45.1	7.3	81	sse.	.....	.....	1	.....	10	.....	.....	0.087	2.2	covered	**M. Jadot, Director.**
Charleville, Normal School	29.71	754.7	30.23	767.9	48.6	9.2	92	ne.	.....	.....	1	.....	5	.....	.....	0	0	½ covered	**M. Grimard, Director.**
Clermont-Ferrand Obs'y	28.78	731.0	30.17	766.4	43.0	6.1	73	n.	.....	.....	1	5 c; ck	0	.....	.....	0.016	0.4	½ covered	**M. Allnard, Director.**
Cluny, Normal School	29.32	744.7	30.20	767.0	40.3	4.6	90	sw.	.....	.....	1	.....	fg	.....	sw.	0.059	1.5	foggy	**M. de Villemontée, Dir.**
Commercy, Normal School	29.37	746.1	30.28	769.0	44.1	6.7	91	e.	.....	.....	1	.....	10 n	e.	e.	0.142	3.6	covered	**Dr. Coulet, Director.**
Gap, Normal School	27.50	698.4	30.11	764.8	40.1	4.5	90	w.	.....	.....	2	0	1 s	.....	.....	0	0	.....	**M. Jeangirard, Director.**
Gréasque, du Rhone	28.95	735.2	30.07	763.8	54.9	12.7	31	e.	.....	.....	1	.....	1	.....	e.	0	0	.....	**M. Kina, Director.**
Grenoble, Normal School	29.40	746.7	30.19	766.9	43.9	6.6	65	ene.	.....	.....	1	2 c	0	.....	.....	0	0	slightly cl'dy	**M. Abland, Director.**
Guéret	28.52	724.5	30.15	765.9	30.7	2.6	79	ssw.	.....	.....	1	0	5 cn	.....	ne.	0	0	cloudy	**M. Delorme, Dir.**
Lamballe, Normal School	29.89	759.1	30.10	766.1	43.7	6.5	65	se.	.....	.....	2	.....	5	.....	se.	0	0	cloudy	**M. Ollitrault, Director.**
Lescar, Normal School	29.52	749.9	30.09	764.3	55.0	12.8	62	e.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	**M. Chauvin, Director.**
Lorient, Naval Observatory	30.02	762.4	30.12	765.0	48.2	9.0	73	ese.	.....	.....	1	.....	10	.....	.....	0.031	0.8	covered	**Lt. T. Carré, Director.**
Lyon, St. Genis-Laval	29.12	739.6	30.21	767.3	41.9	5.5	80	nnw.	.....	.....	1	5 c; ck	0	nnw.	.....	0	0	cloudy	**M. André, Director.**
Mans, Normal School	29.87	758 8	30.19	766.9	44.8	7.1	91	se.	.....	.....	3	.....	5	.....	s.	0.31	8.	cloudy	**M. Piboën, Director.**
Marseille, Observatory	29.81	757.2	30.08	764.0	57.4	14.1	77	w.	.....	.....	1	.....	2	.....	w.	0	0	.....	**M. Stephan, Director.**
Montlouis	24.86	631.4	29.70	754 4	42.8	6.0	31	sw.	16.8	7.5	.....	.....	4	sw.	.....	0	0	.....	**M. Caré for Dr. Finas.**
Montpellier, Normal School	29.97	761.2	30.10	764.5	52.2	11.2	57	n.	.....	.....	2	.....	2	.....	s.	0	0	slightly cl'dy	**M. Galzin, Director.**
Nancy, Normal School	29.39	746.6	30.20	767.1	45.0	7.2	88	nw.	.....	.....	1	.....	kn	.....	.....	0.110	2.8	.....	**M. Husse, Director.**
Nantes, Observatory	30.03	762.8	30.19	766.9	46.0	8.1	71	ese.	.....	.....	0–1	.....	9k; kn	.....	sse.	0	0	.....	**M. Larocque, Director.**
Perpignan, Observatory	30.03	762.8	30.15	765 7	50.2	10.1	76	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	**Dr. Fines, Director.**
Pic-du-Midi, Summit	21.24	539.4	.....	.....	28.2	— 2.1	.....	w.	.....	.....	1	.....	5	.....	w.	0	0	cloudy	**M. Vaussenat.**
Privas, Normal School	29.08	738.6	30.17	766.3	47.1	8.4	70	n.	.....	.....	1	.....	1	n.	n.	0	0	clear	**M. Taffleu.**
Puy de Dôme Obs'y, Summit	25.18	639.6	.....	.....	33.1	0.6	84	sse.	.....	.....	2	2 c	0	.....	.....	0.146	3.7	¼ covered	**M. Allnard, Director.**
Rochefort, Naval Obs'y	30.08	764.0	30.11	764.8	45.3	7.4	71	ene.	.....	.....	1	.....	8	.....	ene.	0	0	¾ covered	**Lt. E. Decante, Director.**
Roche-sur-Yon, N. School	29.94	760.4	30.16	766.0	44.6	7	22	se.	.....	.....	1	.....	5	.....	se.	0	0	cloudy	**M. Brotier, Director.**
Rodez, Normal School	27 90	708 7	30.10	764.6	42.1	5.6	97	e.	.....	.....	1	.....	kn	.....	s.	0	0	.....	**M. Seger, Director.**
Rouen, Normal School	30.17	766.2	30.21	767.4	40.8	8.2	64	nne.	.....	.....	2	.....	2	.....	w.	0	0	slightly cl'dy	**M. Mouillot.**
Saint Lô	.....	.....	.....	.....	45.1	7.3	90	se.	.....	.....	1	.....	5	.....	se.	0	0	cloudy	**M. Delaplanche, Dir.**
Saint Maur, Observatory	30.06	763.6	30.23	767.8	45.3	7.4	76	calm	.....	.....	0	.....	2	sw.	sw.	0	0	.....	**M. Renou, Director.**
Toulouse, Observatory	29.43	747.5	30.15	765.9	48.4	9.1	80	se.	.....	.....	1	.....	5	w.	.....	0	0	cloudy	**M. Baillaud, Director.**
Tours	29.98	761.4	30.16	766.0	45.3	7.4	85	nne.	.....	.....	1	.....	1	ne.	nne.	0	0	clear	**M. de Tastes.**
Versailles, Observatory	29.73	755.1	30.22	767.6	44.2	6.8	79	sw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	**Dr. A. Bérigny, Director.**
Sub-series.																			
St. Martin du Hinx	29.99	761.8	30.14	765.6	54.7	12.6	72	w.	7.8	3.5	.....	0	8 k	.....	w.	0	0	.....	**M. Cartier, Director.**
German.																			
Ansbach	28.76	730 5	30.28	769.0	37.0	2.8	70	n.	.....	.....	2	.....	3	n.	.....	0.138	3.5	.....	**Prof. Jaedt.**
Bamberg	29.30	745 8	30.21	767.4	38.5	3.6	70	nw.	.....	.....	1	c	8 c	n.	.....	0.031	0.8	light fog	**Prof. Dr. Roh.**
Berlin	30.01	762.2	30.16	766.1	34.5	1.4	71	nw.	.....	.....	3	.....	3	.....	.....	0.039	1.0	.....	**Dr. Lensch.**
Breslau	29.52	749.8	30.05	763.3	35.2	1.8	64	nnw.	.....	.....	6	.....	5	.....	.....	0.106	2.7	.....	**Royal University Obs'y.**
Carlsruhe	29.82	757.3	30.27	768.8	42.4	5.8	78	ne.	.....	.....	1	c	5 ks	sw.	nw.	0.087	2.2	.....	**Albert Senz.**
Cassel	29.46	748.2	30.17	766.3	38.3	3.5	78	nw	.....	.....	2	.....	5	nw.	.....	0	0	.....	**Dr. H. Möhl.**
Frankfort-on-the-Main	29.94	760.4	30.32	770.1	40.5	4.7	71	w.	.....	.....	1	.....	4	.....	.....	0	0	.....	**Physical Society.**
Friedrichshafen	28.77	730.8	30.25	768.3	43.9	6.6	80	ssw.	.....	.....	3	.....	8	sw.	.....	0	0	.....	**Wilhelm; Chief Tel.**
Hamburg	30.11	764 8	30.20	767.1	34.9	1.6	93	nw.	.....	.....	3	.....	0	.....	.....	0	0	hazy	**E. Preller.**
Kiel	30.16	766.1	30.18	766.5	35.8	2.1	78	nw.	.....	.....	3	.....	3	.....	.....	0.004	0.1	.....	**Prof. Dr. G. Karsten.**
Leipsic, Astrom'l Obs'y	29.76	755.9	30.20	767.1	30.7	2.6	80	nw.	.....	.....	2	.....	7	nw.	.....	0.039	1.0	.....	**H. Leppig, Asst.**
Magdeburg	29.99	761.7	30.19	766.7	37.9	2.8	75	nw.	.....	.....	2	0	1 k	.....	.....	0 004	0.1	.....	**Weather Observatory.**
Memel	29.94	760 4	29.98	761 6	30.6	— 0.8	60	nne.	.....	.....	3	0	9 ks	.....	.....	.....	.....	.....	**Issermann.**
Munich	28.36	720.4	30.24	768.0	34.7	1.5	89	n.	.....	.....	1	.....	10	nw.	.....	0.185	4.7	rain & snow	**Central Station.**
Neufahrwasser	30.01	762.3	30.03	762.7	34.0	1.1	65	nw.	.....	.....	4	.....	9	.....	.....	0.055	1.4	.....	**A. Lothes.**
Neustadt, Palatinate	29.72	754.9	30.25	768.4	42.8	6.0	70	ne.	.....	.....	2	.....	2	.....	.....	0	0	.....	**Dicknether.**
Stuttgart	29.28	743.6	30.29	767.1	41.9	5.5	68	n.	.....	.....	1	.....	8	w.	.....	0.051	1.3	rain & snow	**Prof. Dr. Schoder.**
Wustrow	30.14	765.6	30.17	766.2	35.6	2.0	89	sw.	.....	.....	2	0	3 s	.....	.....	0	0	.....	**Profs. Brandes & Reimer.**
Greek.																			
Athens	29.39	746.5	29.78	756.3	62.2	16.8	.....	sw.	.....	.....	1.5	0	3 k	.....	.....	0.004	0.1	.....	**Schmidt & Wourlisch.**
Indian.																			
Kurrachee	30.16	766.0	30.21	767.3	79.3	26.3	41	e.	14.0	6.3	.....	.....	5	sse.	.....	0	0	d. clouds	
Deesa	29.61	752.2	30.09	764.2	83.2	28.4	24	nnw.	7.0	3.1	.....	.....	4	nw.	.....	0	0	d. clouds	
Bombay	30.00	762.0	30.04	763.0	82.3	27.9	70	nw.	13.0	5.8	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.12	714.3	29.98	761.4	81.0	27.2	22	e.	9.0	4.0	.....	.....	1	se.	.....	0	0	d. clouds	
Belgaum	27 50	698.4	30.05	763.3	76.2	24.6	21	e.	10.0	4.5	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.39	746.4	30.10	766.2	62.6	17.0	42	calm	0	0	.....	.....	3	.....	.....	0	0	blue sky	
Roorkee	29.22	742 3	30.16	766.1	63.8	17.7	48	w.	.....	.....	.....	.....	0	.....	.....	0	0	.....	
Agra	29.66	753.4	30.25	768.4	68.2	20.1	39	w.	2.0	0.9	.....	.....	3	.....	w.	0	0	d. clouds	
Nagpur	29.06	738.0	30.11	764.8	79.2	26.2	38	calm	3.0	1.4	.....	.....	3	w.	.....	0	0	d. clouds	
Jubbulpore	28.75	730 3	30.14	765.4	74.8	23.8	52	calm	0	0	.....	.....	3	sw.	.....	0	0	d. clouds	
Lucknow	29.77	756.0	30.16	766.0	67.3	19.6	40	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.82	757.5	30.15	765.9	63.6	17.6	72	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.98	761.6	30.18	766.5	67.0	19.8	59	wnw.	1.9	0.8	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	28.68	713.3	30.16	766.1	65.6	18.7	51	nnw.	3 0	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	30.05	763.2	30.13	765.3	70.0	24.4	64	calm	0	0	.....	.....	3	.....	.....	0	0	d. clouds	
Calcutta, Alipore	30.14	765.6	30.16	766.1	67.3	19.6	62	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	30.04	762 9	30.16	766.0	67.3	19.6	76	ne.	0.3	0.1	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	30.09	764.3	30.18	766 7	67.6	19.8	74	sw.	2.2	1.0	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.83	757.6	30.18	766.7	60.5	15.8	85	ne.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar	29.81	757.8	29.86	758.4	83.7	28.7	78	e.	4.7	2.1	.....	.....	8	.....	ene.	0.71	18.0	d. clouds	
Jeypore	28.69	728.6	30.18	766.6	67.2	19.6	68	w.	0.4	0.2	.....	.....	0	.....	.....	0	0	blue sky	
Bellary	28.58	725.9	.....	.....	77.5	25 3	34	ese.	8	3.6	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.89	759.9	.....	.....	80.0	26.7	55	ese.	1	0.4	.....	.....	0	.....	.....	0	0	blue sky	

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature. Inch.	Mill.	BAROMETER. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	WIND. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	CLOUDS. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.																			
Udine	29.62	752.4	30.05	763.3	45.3	7.4	83	calm	0	0			0			0	0		Prof. Giovanni Clodig.
Milan	29.54	750.3	30.08	764.1	41.9	5.5	77	sw.	5.6	2.5			0			0.008	0.2		Prof. Schiapparelli.
Padua	29.93	760.2	30.04	763.1	38.7	3.7	97	nw.	1.8	0.8			10			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.20	741.6	30.14	765.6	43.9	6.6	78	nw.	1.8	0.8			0			0	0		Prof. F. F. Denza.
Genoa	29.86	758.4	30.06	763.4	58.3	14.6	24	n.	1.8	0.8			0			0	0		Prof. G. M. Garibaldi
Mondovi	28.13	714.5	30.13	765.3	46.2	7.9	46	e.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	30.02	762.4	30.07	763.7	42.1	5.6	94	n.	0.3	2.8			10			0	0		Prof. Luigi Guidi.
Florence	29.78	756.3	30.04	763.0	42.8	6.0	95	w.			2		0			0	0		Prof. Costantino Pittei.
Leghorn	29.91	759.6	29.99	761.8	54.1	12.3	74	nw.	1.3	0.6			0			0	0		Prof. P. Monte.
Rome	29.81	757.2	29.99	761.7	55.4	13.0	51	n.	9.4	4.2			0			0	0		Prof. P. Tachini.
Lecce	29.58	751.2	29.84	757.8	53.6	12.0	78	nnw.	20.6	9.2			7	nw.		0.020	0.5		Prof. C. de Giorgi.
Cosenza	29.03	737.3	29.94	760.5	53.6	12.0	76	wnw.	2.5	1.1			9	nw.		0.142	3.6		Prof. D. Conti.
Cagliari	29.85	758.1	30.04	763.1	55.9	13.3	54	nw.			6		3	nw.		0	0		Prof. A. Pacinotti.
Palermo	29.75	755.6	30.00	762.0	57.2	14.0	60	nnw.	12.5	5.6			7	nnw.		0	0		Prof. G. Caccintore.
Syracuse	29.88	758.9	29.92	760.0	58.6	14.8	87	nne.	12.5	5.6			0	nw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.43	747.5	29.96	760.9	55.4	13.0	55	ne.	5.6	2.5			1			0	0		Prof. F. Brioschi.
Stelvio	22.13	562.0			17.1	— 8.3	53	ne.			2		0			0	0	clear	Prof. P. F. Denza.
Valdobbia	22.15	562.5			27.9	— 2.3	20	ne.			2		0			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.23	767.9	30.26	768.7	30.0	— 1.1	73	calm			0	0	6 ck		nw.	0	0	fair	Hattori.
Awomori	30.16	766.1	30.20	767.1	30.7	— 0.7	69	s.	11.1	4.9			10 s			0.100	2.7	overcast	K. Ogawa.
Hakodate	30.13	765.3	30.14	765.5	32.0	0.0	94	nw.	24.0	10.7			10					snowing	
Hamamatsu	30.25	768.3	30.28	769.0	38.4	3.6	73	calm			0	0	0			0	0	clear	
Kagoshima	30.35	771.0	30.37	771.3	38.8	3.8	82	calm			0	0	0			0	0	clear	G. Miyanohaza.
Kioto	30.14	765.5	30.32	770.2	31.3	— 0.4	93	nw.	1.3	0.5			0			0	0	clear	M. Tojima.
Kochi	30.30	769.5	30.32	770.0	41.1	5.1	65	w.	4.7	2.1			0			0	0	cloudy	K. Kusunose.
Miasaka	30.32	770.0	30.34	770.7	38.2	3.4	83	calm			0	0	0			0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.17	766.2	30.38	771.7	39.1	3.9	79	calm	0	0			3 s			0	0	clear	S. Takehayashi.
Niigata	30.27	768.8	30.31	769.9	33.4	0.8	90	sw.	3.3	1.4			8 ck		wnw.	0.070	1.8	cloudy	M. Morita.
Nobiru	30.24	768.2	30.26	768.6	27.0	— 2.8	89	nnw.	3.2	1.4			0			0	0	clear	H. Midzushima.
Numazu	30.24	768.1	30.28	769.0	38.2	3.4	69	e.			2		1 ks			c	0	fair	R. Kaneda.
Sakai	30.32	770.2	30.33	770.5	33.8	1.0	91	calm			0	0	0			0.012	0.3	clear	K. Yamawchi.
Sapporo					25.6	— 3.6	83	se.	5.4	2.4			10			0.005	0.1	covered	
Tokei Obs'y, Yeddo	30.21	767.3	30.29	769.4	33.1	0.6	77	nw.	2.0	0.9			0			0	0	clear	The Staff.
Wakayama	30.25	768.4	30.31	769.8	36.3	2.3	80	ne.	5.4	2.4			0			0	0	fair	Y. Kuwamura.
Osaka	30.31	769.8	30.32	770.2	35.9	2.2	90	n.	1.9	0.8			0			0	0	clear	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.84	757.9	30.02	762.5	82.0	27.8	64	ene.	17.5	7.8			1 ck;cs	4 ks;k		ene.		0	0	fair	Oliver & Figon.
MEXICAN.																			
Altata																			H. Diaz Pena.
Guanajuato	23.71	602.2	29.93	760.2	49.1	9.5	97	calm	0	0			5 c;ck	0	w.			0	0	light fog	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.23	767.8	45.0	7.2	93	wnw.			1		10 c	0				0	0	foggy	Prof. M. Leal.
Mazatlan	29.73	755.0	29.99	761.7	69.0	20.6	80	nw.	5.3	2.3			10 n		sw.	inap.	inap.	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.1	30.30	769.7	44.6	7.0	76	calm			0	0	0			0	0	very fine	The Staff.
Morelia	24.32	617.7	30.19	766.7	43.7	6.5	67	e.			1	1 c	2 k	e.	e.	0	0	clear	M. Tena, M. D.
Puebla, Catholic Institute	23.40	594.4	30.33	770.4	41.0	5.0	77	calm	0	0			0			0	0	clear	Prof. P. Spina.
Zacatecas	22.52	572.0	30.24	768.4	46.07	8.07	75	sw.	8.0	3.6			10 sn		sw.	0	0	covered	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.27	768.9	30.27	768.9	44.1	6.7		sse.			3					0.008	0.2		
Groningen	30.21	767.2	30.26	768.6	39.2	4.0		nw.			1					0	0		
Helder																			
Hellevoetsluis	30.27	768.9	30.27	768.9	43.3	6.3	87	e.			1					0.035	0.9		
Utrecht	30.25	768.3	30.30	769.5	40.8	4.9	90	w.			2		2			0.004	0.1	lightly cl'dy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.99	761.7			79.2	26.2	83	nw.	0	0			6			0	0		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.12	765.1	30.19	766.7	33.4	0.8	85	w.	4	2			1			0	0		
Brono	30.10	764.4	30.13	765.4	23.4	— 4.8	71	nnw.	29	13			10			0.039	1.0	snowing	
Christiania	30.00	761.9	30.15	765.9	19.9	— 6.7	100	e.	0	0			9			0	0	foggy	
Gjæsvær	29.69	754.0	29.71	754.6	11.1	—11.6		n.			7		10						
Lodingen	29.97	761.2	30.02	762.4	16.0	— 8.9	63	nnw.			2		5			0.138	3.5		
PORTUGUESE.																			
Angra, Azores	29.94	760.5	30.10	764.5	58.3	14.6	84	nw.	11.9	5.3			6			0	0		Dr. J. A. Sampaio.
Campo Major	29.30	744.3	30.32	770.2	54.9	12.7	74	wnw.	7.4	3.3			2			0.039	1.0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.27	768.9	30.30	771.2	66.2	19.0	63	se.	6.9	3.1			1			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.03	762.7	30.39	772.0	57.6	14.2	63	nw.	4.9	2.2			2			0.138	3.0		The Staff.
Ponta Delgada, Azores	30.08	764.1	30.15	765.9	58.3	14.6	89	w.	4.9	2.2			10			0.394	10.0	raining	
Saint Paul de Loando	29.76	756.0	29.97	761.2	77.4	25.2	91	w.	2.7	1.1			1	ne.		0	0		
Serra da Estrella	25.40	645.1	30.32	770.0	33.8	1.0	100	nw.	28.0	12.5			10			0.685	17.4	foggy	
RUSSIAN.																			
Akmolinski	29.29	744.0	30.52	775.2	— 4.2	—20.1	93	sse.	7	3			3 c	0					Major K. Lasarew.
Archangel	29.08	738.6	29.10	739.1	18.0	— 7.8	89	n.	13	6			10			0.276	7.0	snowing	Capt. Sselliwerstow.
Ashurada	30.35	770.9	30.26	768.5	46.2	7.9	92	wnw.	9	4			10 n			0.098	2.5		
Astrakhan	30.43	772.8	30.34	770.7	22.0	— 5.2	66	e.	7	3			0	0		0	0		Capt. Wisganow.
Baku	30.34	770.7	30.30	769.5	41.2	5.1	85	sse.	4	2			0	7 ks		0	0		
Barnaul	30.02	762.4	30.58	776.8	— 0.6	—18.1	72	calm	0	0			0	0		0	0		Meteorological Obs'y.
Bielosersk	28.72	729.6	29.21	741.8	26.2	— 3.2	88	sw.	22	10			10 ks			0.016	0.4		
Dorpat	29.57	751.0	29.83	757.7	15.8	— 9.0	69	nnw.	7	3			0	0		0	0		Observatory.
Ekaterinburg	29.20	741.7	30.29	769.4	— 0.6	—18.1	71	calm	0	0			0	0		c	0		Meteorological Obs'y.
Elisawetgrad	29.33	744.9	29.79	756.7	33.9	0.9	94	se.	7	3			10 n			0.173	4.4		
Kasan	29.81	757.1	30.11	764.8	— 0.6	—18.1	77	s.	18	8			10			0.010	0.4		Observatory.
Kem	29.28	743.8	29.34	745.1	10.4	—12.0	81	nw.	18	8			9 ks			0.010	0.4		
Kertch	29.91	759.6	29.93	760.1	44.8	7.1	86	se.	4	2		0	8 n			0	0		Lagorio & Sastyrez.
Kieff	29.08	738.7	29.74	755.5	33.3	0.7	98	sw.	4	2			10 n			0.217	5.5		Observatory.
Koslov	29.42	747.2	30.00	761.9	11.7	—11.3	88	s.	22	10			10 s			0.335	8.5		
Libau	29.92	759.9	29.94	760.5	30.6	— 0.8	58	nnw.	7	3			1			0	0		E. Quaas.
Lugan	29.79	756.7	29.99	761.8	23.5	— 4.7	69	sse.	9	4			8			0	0		Meteorological Obs'y.
Moscow	29.07	738.4	29.57	751.0	29.1	— 1.6	93	s.	11.2	5.0			10 n			0.004	0.1		
Nikolaiev	29.70	754.4	29.78	756.3	38.3	3.5	93	s.	18	8			10 n			0.232	5.9		Capt. Kurdakow.
Pekin, China	30.60	777.1	30.74	780.7	24.1	— 4.4	33	nw.	27	12		0	0			0	0		Physical Observatory.
Petrozavodsk	28.93	734.7	29.13	740.0	17.6	— 8.0	94	nnw.	34	15			10			0.285	7.3		Dr. Bergmann.
Pinsk	29.22	742.1	29.73	755.1	34.9	1.6	94	w.	4	2			10 s			0.004	0.1	snow & fog	
Pol	30.02	762.5	30.64	763.0	46.8	8.2	49	e.	0	4			0	0		0	0		
St. Petersburg	29.55	750.5	29.50	750.9	12.9	—10.6	67	wnw.	18	8			0	1 s		0.047	1.2		Central Physical Obs'y.
Samarkand																			
Sevastopol	29.58	751.2	29.74	755.4	48.2	9.0	57	s.	27	12			10 n			0.102	2.6		
Semipalatinsk	29.94	760.5	30.65	778.6	13.6	—10.2	76	w.	9	4			10			0	0		Major Lasarew.
Staroi Bykhov	29.22	742.3	29.69	754.2	34.7	1.5	94	sse.	4	2			10			0.209	5.3	raining	
Tiflis	28.81	731.7	30.28	769.1	40.5	4.7	47	se.	4	2		0	0			0	0		Physical Observatory
Tomsk	30.04	762.9	30.34	770.7	3.4	—15.9	82	s.	4	2			3						
Vlatka	29.09	738.8	29.77	750.2	6.6	—14.1		s.	0	4			10			0.079	2.0	snowing	
Warsaw	29.43	747.6	29.87	758.8	34.2	1.2	80	n.	18	8			9 ku			0.016	0.4		Astronomical Obs'y.
Wilna	29.38	746.2	29.82	757.4	27.7	— 2.4	71	n.	9	4			9			0	0	heavy cl'ds.	Berg, Assistant.
Yeniselsk	29.98	761.5	30.29	769.4	10.8	—11.8	79	w.	7	3			9			0.024	0.6		M. O. Marks.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Scottish.																			
Monach Lt.	.....	.....	29.91	759.7	46	7.8	92	sse.	.....	.....	7	.....	10	.....	.....	0	0	hazy	J. Youngclause
North Unst	.....	.....	30.20	767.1	.....	.....	.....	e.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.05	763.2	30.15	765.9	53.2	11.8	77	ne.	2.2	1.0	.....	0	2	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.24	768.1	30.30	769.6	53.6	12.0	90	n.	1.1	0.5	.....	.....	10	.....	.....	0.008	0.2	covered.....	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27 22	691 3	30.30	769.7	40.1	4.5	93	sw.	2.7	1.2	.....	.....	10	.....	.....	0	0	covered.....	Domingo Martin.
Madrid, Royal Obs'y	28.00	711.1	30.32	770.0	42.4	5.8	100	sw.	1.1	0.5	.....	.....	10	.....	.....	0.008	0.2	foggy.....	The Staff.
Murcia, Met. Obs'y	30.05	763.2	30.20	767.1	62.4	16.9	67	ssw.	3.6	1.6	.....	0	2	.....	.....	0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.27	743.4	30.13	765.4	48.2	9.0	95	e.	7.8	3.5	.....	3 k	5 k	w.	w.	0.059	1.5	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.31	744.5	30.22	767.6	54.7	12.6	82	sw.	1.3	0.6	.....	.....	9	.....	.....	0.406	10.3	almost cov'd	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.95	760.8	30.01	762.2	76.0	24.4	77	n.	14.8	6.6	.....	0	5 ks	.....	.....	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.25	768.3	30.35	770.8	58.1	14.5	85	n.	4.0	1.8	.....	0	8	.....	nw.	0.003	0.1	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.05	763.3	30.14	765.6	77.0	25.0	86	n.	6.7	3.0	.....	.....	10 n	.....	n.	0.335	8.5	cloudy	Manuel Mass.
Swedish.																			
Haparanda	29.79	756.7	29.83	757.7	5.7	—14.6	82	n.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Umea	29.87	758.6	29.92	759.9	6.1	—14.4	87	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Hernosand	29.87	758.8	29.93	760.1	15.8	— 9.0	88	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	
Stockholm	29.67	753 6	29.85	758.1	21.6	— 5.8	80	nw.	.....	.....	4	.....	6	.....	.....	0	0	.....	
Wisby	29.84	757.8	29.89	759.3	31.6	— 0.2	92	w.	.....	.....	4	.....	7	.....	.....	0.295	7.5	.....	
Sub-series.																			
Upsala	29.75	755.7	29.84	757.9	20.1	— 6.6	100	nw.	17.0	7.6	.....	.....	4	.....	wnw.	0.016	0.4	.....	S. G. Fineman.
Swiss.																			
Geneva	28.76	730.4	30.22	767.6	41.7	5.4	76	nw.	.....	.....	2	.....	0	.....	.....	0	0	clear.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	29.84	757.9	48.6	9.2	94	se.	8	3.5	.....	.....	10	.....	sw.	1.315	33.4	raining.....	The Observatory.
Valona	.....	.....	29.86	758.4	53.2	11.8	.....	ne.	.....	.....	1	.....	10	.....	.....	0	0	covered.....	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.10	764.6	64.0	17.8	51	w.	.....	.....	1	7 c	0	.....	.....	0	0	.....	
Samokov, Bulgaria	26.55	674.4	.....	.....	35.5	1.9	92	se.	.....	.....	1	.....	10 n	.....	.....	0.37	9.4	drizzling.....	Prof. C. V. A. van Dyck. Fred L. Kingsbury.
United States.																			
Albany, New York	30.35	770.9	30.44	773.2	22	— 5.6	76	nw.	12	5.4	.....	.....	10 s	.....	nw.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.88	758.9	30.59	777.0	0	—17.8	68	w.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear.....	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.06	636.5	30.18	766.6	37	2.8	92	e.	1	0.4	.....	0	7 s	.....	.....	0.25	6.3	fair	W. C. Barnes.
Assinnaboine, Ft., Montana	27.17	690.1	30.21	767.3	—12	—24.4	54	ne.	4	1.8	.....	0	8 s	.....	ne.	0.31	7.9	cloudy.....	B. O. Lenoir.
Atlanta, Georgia	29.06	738.1	30.30	769.6	44.8	7.1	93	e.	10	4.5	.....	.....	10 n	.....	.....	0.09	2.3	light rain.....	H. C. Smith.
Atlantic City, New Jersey	30.40	772.1	30.41	772.4	29	— 1.7	77	nw.	5	2.2	.....	7 c	0	.....	.....	0	0	fair.....	Jas. M. Watson.
Augusta, Georgia	30.16	766.1	30.36	771.1	48	8.9	77	calm	0	.....	.....	.....	10 s	.....	.....	0	0	cloudy.....	John Healy.
Baltimore, Maryland	30.43	772.9	30.48	774.2	36	2.2	53	n.	5	2.2	.....	.....	10 s	.....	w.	0	0	cloudy.....	Geo W Felger.
Barnegat, New Jersey	30.38	771.6	30.40	772.1	31.0	— 0.6	68	nw.	10	4.5	.....	8 k	0	nw.	.....	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.03	737.3	29.05	737.9	23.9	— 4.5	.....	nw.	27	12.1	.....	.....	10 n	.....	.....	0.01	0.3	cloudy..	Leonard Steineger.
Bennett, Fort, Dakota	28.62	720.9	30.36	771.1	— 5	—20.6	81	se.	20	8.9	.....	.....	10 s	.....	se.	inap.	inap.	cloudy	A. Pritchard.
Benton, Fort, Montana	27.16	689.9	30.14	765.5	—15	—26.1	46	ne.	6	2.7	.....	0	0	.....	.....	0.07	1.8	clear.....	S. Wheaton.
Billings, Montana	26.68	677.7	.....	.....	— 4	—20.0	.....	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	T. Gibson.
Bismarck, Dakota	28.49	723.6	30.48	774.2	—11	—23.9	100	se.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.34	770.6	30.37	771.4	28	— 2.2	77	n.	23	10.3	.....	2 cs	0	nw.	.....	0	0	clear.....	J. T. Elker.
Boise City, Idaho	27.26	692.4	30.19	766.8	8	—13.3	87	nw.	3	1.3	.....	0	4 s	.....	.....	0	0	fair.....	B. E. Light.
Boston, Massachusetts	30.14	765.5	30.31	769.9	26.0	— 3.3	51	nw.	13	5.8	.....	2 c	0	w.	.....	0	0	clear.....	O. B. Cole.
Brownsville, Texas	30.01	762.2	30.06	763.5	48.7	9.3	100	calm	0	.....	.....	.....	fg.	.....	.....	0.03	0.8	dense fog....	M. McCarty.
Buford, Fort, Dakota	28.19	710.0	30.39	771.9	15	— 9.4	74	sw.	8	3.6	.....	4 ck	3 s	sw.	sw.	0	0	fair.....	W. Finn.
Burlington, Vermont	30.16	766.1	30.47	773.9	—14	—25.6	100	e.	10	4.5	.....	.....	10 n	.....	.....	inap.	inap.	light snow..	F. A. Mellen.
Cairo, Illinois	29.86	758.4	30.28	769.1	7.0	—13.9	76	n.	11	4.9	.....	.....	10 s	.....	n.	0	0	cloudy	G. C. Schaeffer.
Cape Henry, Virginia	30.39	771.9	30.41	772.4	33.8	1.0	96	e.	10	4.5	.....	.....	10 n	.....	e.	0.45	11.4	light rain....	W. H. Ray.
Cape May, New Jersey	30.38	771.6	30.41	772.4	40	4.4	73	n.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy.....	A. K. Alderson.
Cape Mendocino, California	.....	.....	.....	.....	34.0	1.1	78	n	24	10.7	.....	.....	10 s	.....	nw.	0	0	cloudy.....	W. E. Smith.
Cedar Keys, Florida	30.23	767.8	30.25	768.3	61	16.1	93	ne.	7	3.1	.....	.....	10s; fg	.....	.....	0	0	cloudy	J. J. McLean.
Champaign, Illinois	29.56	750.8	30.42	772.7	16.0	— 8.9	40	ne.	24	10.7	.....	.....	10 s	.....	ne.	0	0	cloudy	F. W. Mixer.
Charleston, S. Carolina	30.27	768.8	30.33	770.4	50	10.0	77	ne.	6	2.7	.....	0	8 s	.....	ne.	0	0	cloudy	L. A. Welsh.
Charlotte, N. Carolina	29.48	748.8	30.30	771.4	41.0	5.0	82	ne.	3	1.3	.....	.....	10s; fg	.....	ne.	0	0	cloudy	J. H. Smith.
Chattanooga, Tennessee	29.47	748.5	30.33	770.4	39.5	4.2	94	ne.	7	3.1	.....	.....	10 n	.....	n.	0.19	4.8	light rain....	B. L. Goulding.
Cheyenne, Wyoming	23.73	602.7	29.98	761.5	19.3	— 7.4	48	nw.	4	1.8	.....	0	1 s	.....	.....	0	0	clear.....	E. McGovern.
Chicago, Illinois	29.72	754.9	30.47	773.9	21.0	— 6.1	84	ne.	12	5.4	.....	.....	10 s	.....	.....	inap.	inap.	cloudy.....	J. Mitchell.
Chincoteague, Virginia	30.41	772.4	30.43	772.9	37	2.8	72	ne.	9	4.0	.....	.....	10 ks	.....	nw.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.75	755.6	30.44	773.2	29	— 1.7	88	calm	0	.....	.....	.....	10 s	.....	.....	0	0	cloudy.....	R. B. Watkins.
Cleveland, Ohio	29.76	755.9	30.54	775 7	18.6	— 7.4	86	n.	7	3.1	.....	10 k	0	w.	.....	0	0	cloudy.....	J. B. Newlin.
Coleman City, Texas	28.32	719.3	30.2c	767.1	29	— 1.7	100	n.	8	3.6	.....	.....	10 s	.....	.....	0.07	1.8	cloudy.....	L. Dorman.
Columbus, Ohio	29.57	751.1	30.47	773.9	23	— 5.0	88	ne.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy.....	D. Cuthbertson.
Concho, Fort, Texas	28.18	715.8	30.20	767.1	33.0	0.6	88	n.	8	3.6	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	J. McGlone.
Custer, Fort, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. B. Lamar.
Davenport, Iowa	29.77	756.1	30.48	774.2	8	—13.3	55	ne.	12	5.4	.....	.....	10 ks	.....	ne.	0	0	cloudy.....	R. R. Martin
Davis, Fort, Texas	25.18	639.6	30.16	766.1	32	0.0	81	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	J. Williams.
Dayton, Washington T'y	28.18	715.8	29.98	761.5	20	— 6.7	87	sw.	2	0.9	.....	.....	10 s	.....	sw.	0.14	3.6	cloudy.....	D. Moore.
Deadwood, Dakota	25.07	636.8	30.01	762.2	— 5	—20.6	100	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy.....	F. Willson.
Delaware Breakwater, Del	30.40	772 1	30.42	772.7	35	1.7	53	n.	27	12.1	.....	.....	9 ks	.....	n.	0	0	cloudy	T. S. Townsend.
Denison, Texas	29.32	744.7	30.16	766.1	33.0	0.6	100	n.	6	2.7	.....	.....	10 s	.....	.....	0.58	14.7	cloudy	J. W. Byram.
Denver, Colorado	24.49	622.0	30.01	762.2	11.3	—11.5	75	s.	1	0.4	.....	0	0	.....	.....	inap.	inap.	clear.....	F. M. Neal.
Des Moines, Iowa	29.50	749 3	30.17	773.9	— 1	—18.3	68	e.	5	2.2	.....	.....	10 s	.....	e.	0	0	cloudy.....	F. W. Conrad.
Detroit, Michigan	29.83	757.7	30.59	777.0	11.1	—11.6	80	n.	9	4.0	.....	0	7 s	.....	nw.	0	0	fair.....	C. F. R. Wappenhans.
Dodge City, Kansas	27.42	696.5	30.17	766.3	12	—11.1	83	e.	.....	.....	2	.....	10 s	.....	.....	0.10	2.5	cloudy	V. P. Temple.
Dubuque, Iowa	29.80	756.9	30.57	776.5	— 2.2	—19.0	54	n.	1	0.4	.....	3 c	0	ne.	.....	0	0	clear.....	J. Harvey Smith.
Duluth, Minnesota	29.84	757.9	30.65	778.5	—23	—30.6	100	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	N. B. Conger.
Eagle Pass, Texas	29.33	745.0	30.17	766.3	45.0	7.2	83	nw.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy.....	F. Belford.
Eagle Rock, Idaho	25.21	640.3	30.17	766.3	2	—16.7	75	n.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	J. M. Clifford.
Eastport, Maine	30.06	763.5	30.13	765.3	11.0	—11.7	70	nw.	16	7.2	.....	0	2 s	.....	nw.	0.06	1.5	clear.....	D. C. Murphy.
Elliott, Fort, Texas	27.29	693.2	30.22	767.6	15	— 9.4	51	s.	4	1.8	.....	.....	10 s	.....	s.	inap.	inap.	cloudy.....	W. J. Cundall.
El Paso, Texas	26.27	667 2	30.15	765.8	34.5	1.4	89	calm	0	0	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.75	755.6	30.52	775.2	19	— 7.2	84	n.	9	4.0	.....	0	6 s	.....	n.	0	0	fair.....	Peter Wood.
Escanaba, Michigan	29.92	760.0	30.64	778.2	—10.0	—23.3	74	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	George Heathcote.
Fredericksburg, Texas	28 32	719 3	30.14	765.5	43	6.1	93	n.	7	3.1	.....	.....	10 s	.....	.....	0.10	2.5	cloudy	Frank Halwegler.
Galveston, Texas	29.99	761.7	30.04	763.0	55	12.8	100	nw	11	4.9	.....	.....	fg.	.....	.....	0.05	1.3	dense fog.....	E. O'C. Machnerney.
Grand Haven, Michigan	29.86	758.4	30.57	776.5	10.0	—12.2	80	calm	0	0	.....	0	9 s	.....	.....	inap.	inap.	cloudy.....	J. E. Mueller.
Grant, Fort, Arizona	25.23	640.8	30.13	765.3	37	2.8	92	e.	3	1.3	.....	.....	10 s	.....	.....	0.52	13.2	cloudy.....	Robert C. Lord.
Hatteras, North Carolina	30.35	770.9	30.37	771.4	44	6.7	93	ne.	8	3.6	.....	hz.	6 k	.....	w.	0	0	fair.....	R. M. Crawford.
Helena, Montana	25 66	651.8	30.10	764.5	0	—17.8	100	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	N. C. Smith.
Henrietta, Texas	29.17	740.9	30.24	768.1	25	— 3.9	88	n.	6	2.7	.....	.....	10 ks	.....	n.	0.07	1.8	cloudy.....	J. P. Sherry.
Huron, Dakota	28.94	735.1	30.48	774.2	— 5.3	—20.7	32	se.	12	5.4	.....	7 k	0	se.	.....	inap.	inap.	fair.....	S. W. Glenn.
Indianapolis, Indiana	29.56	750.8	30.40	772.1	25	— 6.7	76	ne.	9	4.0	.....	.....	10 s	.....	ne.	0	0	cloudy.....	J. F. Jirdinston.
Indianola, Texas	30.02	762.5	30.05	763.3	46.8	8.2	100	nw.	7	3.1	.....	.....	10 n	.....	.....	0.01	0.3	light rain....	I. A. Reed.
Jacksboro, Texas	28.97	735.8	30.21	767 3	29	— 1.7	77	nw.	6	2.7	.....	.....	10 s	.....	.....	0.07	1.8	cloudy.....	D. J. Carr.
Jacksonville, Florida	30.22	767.6	30.27	768.8	60	15.6	93	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy.....	J. W. Smith.
Keogh, Fort, Montana	27.48	698 0	30.17	766.3	— 1	—18.3	74	ne.	5	2.2	.....	7 ck	0	nw.	.....	0.01	0.3	fair.....	A. Schneider.
Keokuk, Iowa	29.70	754.4	30.40	772.1	12.0	—11.1	80	ne.	14	6.3	.....	.....	10 s	.....	ne.	0	0	cloudy.....	F. Z. Gosewisch.

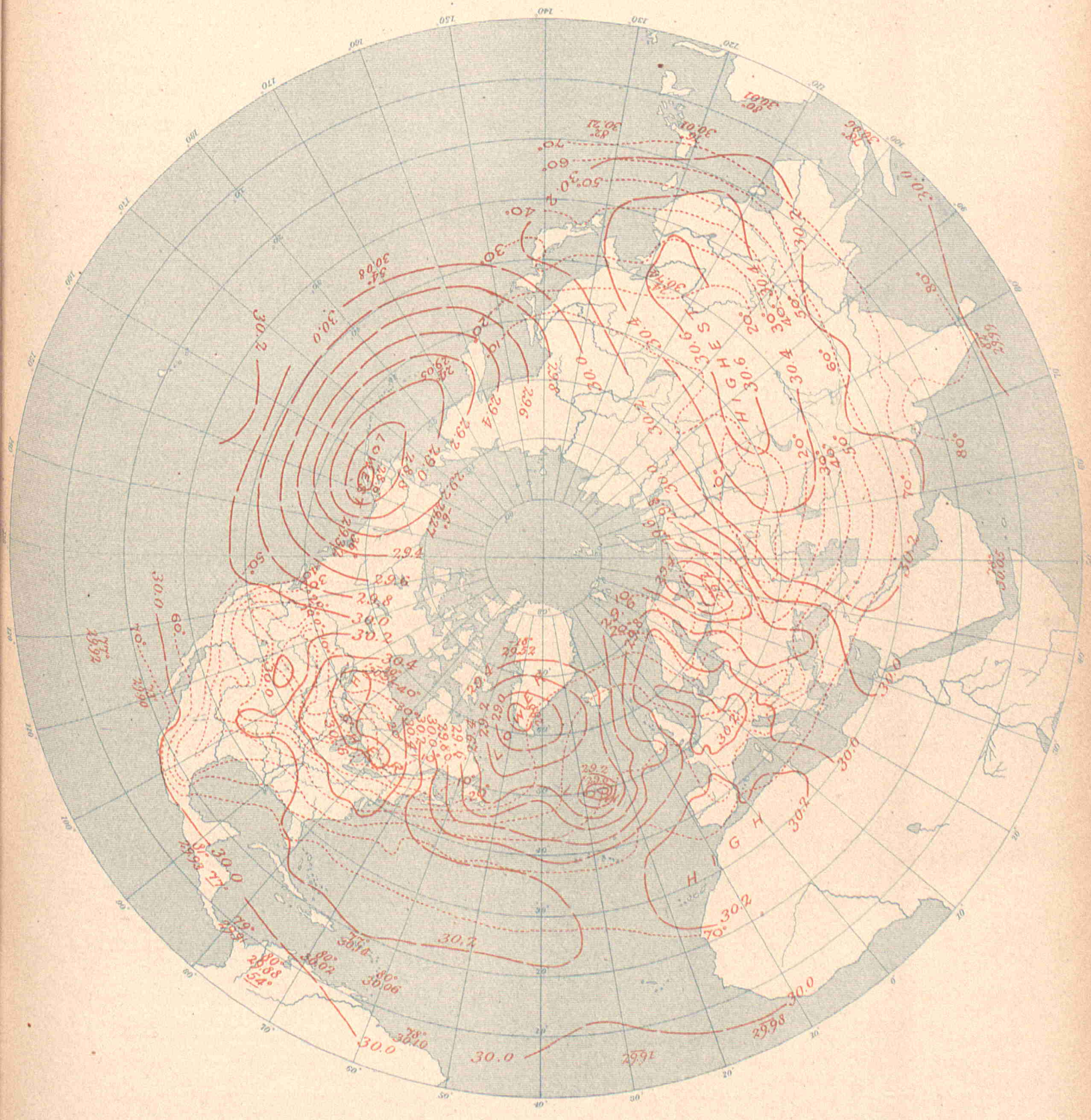
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	Observers
								Direction.	Velocity.		Upper.	Lower.	Upper.	Lower.				
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Force. 0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Key West, Florida	30.15	765.8	30.17	766.3	72.0	22.2	97	e	4	1.8		0	2 k		se.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.38	771.6	30.40	772.1	43	6.1	93	ne.	15	6.7			10 s		ne.	0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.26	743.2	30.34	770.6	38	3.3	94	ne.	4	1.8			10 n			0.01	0.3	light rain	J. A. Cody.
La Crosse, Wisconsin	29.71	754.6	30.55	776.0	— 7	—21.7	58	n	8	3.6		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.38	746.2	30.34	770.6	12	—11.1	80	ne.	8	3.6			10 n			0.01	0.3	light snow	A. W. Browne.
Lewiston, Idaho	29.19	741.4	30.06	763.5	24.0	— 4.4	88	e.	1	0.4			10 n			0.04	1.0	light snow	W. Bell.
Little Rock, Arkansas	29.81	757.2	30.14	765 5	41	5.0	92	ne.	4	1.8			10 n			1.03	26.2	light rain	W. U. Simons.
Los Angeles, California	29.64	752.8	30.04	763.0	46	7.8	83	e.	10	4.5		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.74	755.4	30.33	770.4	32	0.0	78	ne.	10	4.5			10 n			0.02	0.5	light rain	L. M Dey.
Lynchburg, Virginia	29.68	753.9	30.40	772.1	38.2	3.4	75	se.	2	0.9			10 s			0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.93	760.2	30.03	778.0	4.5	—15.3	60	ne.	10	4.5		1 k	0	nw.		0	0	clear	F. R. Day.
Macon, Fort, North Carolina	30.35	770.9	30.36	771.1	47.0	8.3	68	nw.	9	4.0		0	5 s			0	0	fair	William Daly.
Madison, Wisconsin	29.48	748.8	30.57	776.5	— 4	—20.0	65	ne.	9	4.0		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort; Montana	25.39	644.9	29.94	760.5	— 6	—21.1	65	n.	4	1.8		0	0			0.03	0.8	clear	F. Burke.
McKavett, Fort, Texas	27.80	707.6	30.25	768.3	35	1.7	89	ne.	6	2.7			10 s			0.02	0.5	cloudy	J. E. Thatcher.
Marquette, Michigan	29.82	757.4	30.60	777.2	— 8	—22.2	58	w.	13	5.8		0	0			0.01	0.3	clear	J. Gilligan.
Memphis, Tennessee	29.81	757.2	30.17	766.3	43	6.1	93	nw.	8	3.6			10 n			1.02	25.9	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.76	755.9	30.56	776.2	2	—16.7	100	nw.	13	5 8			10 n			inap.	inap.	light snow	W. Line
Missoula, Fort, Montana	26.56	674.6	30.02	762.5	15	— 9.4	83	nw.	1	0.4			10 n			0.04	1.0	light snow	I. H. Young.
Mobile, Alabama	30.10	764.5	30.14	765.5	57	13.9	94	se.	4	1.8			10 s		se.	0.02	0.5	cloudy	C. A. Read.
Montgomery, Alabama	29.95	760.7	30.19	766.8	53.5	11.9	88	se.	6	2.7			10 s			inap	inap.	cloudy	J. B. McLaughlin
Moorhead, Minnesota	29.48	748.8	30.59	777.0	—18	—27.8	100	se.	6	2.7			10 s			0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.45	748.0	30.51	774.9	27.0	— 2.8	88	sw.	1	0.4			10 s			0	0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.18	588.8	29.81	757.2	—21.0	—29.4	100	nw.	126	56.4			fg.		nw.	0.11	2.8	dense fog	S. W. Beall.
Nashville, Tennessee	29.66	753 4	30.27	768.8	39.5	4.2	100	se.	6	2.7			10 n		se.	0.43	10.9	light rain	L. N. Jesunofsky.
New Haven, Connecticut	30.27	768.8	30.39	771.9	25	— 3.9	64	n.	9	4.0		8 cs	1 s	sw.	n.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.36	771.1	30.41	772.4	26	— 3.3	64	nw.	12	5 4		8 c	2 s	nw.	nw.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.04	763 0	30.10	764.5	60.0	— 15.0	93	se.	4	1.8			fg.			0.03	0.8	dense fog	L. Dunne.
Newport, Rhode Island	30.27	768 8	30.32	770.1	28.0	— 2.2	61	nw.	18	8.0		3 c	1 s	nw.		0	0	fair	W. McGillivray.
New York, New York	30.24	768.1	30.43	772.9	30	— 1.1	68	w.	6	2.7		6 cs	2 s	w.		0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	30.37	771.4	30.40	772.1	42	5.6	74	ne.	10	4.5			10 s			0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.08	687.8	30.20	767.1	2.6	—16.3	78	se.	12	5.4			10 n			0.02	0.5	light snow	E. F. Brady.
Olympia, Washington T'y	29.83	757.7	29.87	758.7	36.0	2.2	89	s.	9	4.0			10 n			0.02	0.5	light rain	J. Dascomb.
Omaha, Nebraska	29.10	740.7	30.43	772.9	— 2.0	—18.9	65	ne.	10	4.5			10 s			0	0	cloudy	A. Pollak.
Oswego, New York	30.14	765.5	30.49	774.4	15.0	— 9.4	83	n.	20	8.9		0	9 s		nw.	inap.	inap.	cloudy	J. G. Linsley.
Palestine, Texas	29.57	751.1	30.15	765.8	44.0	6.7	96	n.	1	0.4			ton; fg		n.	0.25	6.3	light rain	L. M. Pindell.
Pensacola, Florida	30.15	765.8	30.18	766.6	57.2	14.0	93	e.	6	2.7			10 s			0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.32	770.1	30.43	772.9	33	0.6	60	nw.	14	6.3		0	7 ks		sw.	0	0	fair	T. T. Townsend.
Pike's Peak, Colorado	17.45	443 2	30.15	765.8	2	—16.7	66	w.	38	17.0		0	3 ks		w.	0.01	0.3	clear	H. Hall.
Pioche, Nevada	23.84	605.5	30.04	763.0	28	— 2.2	92	s.	9	4.0			10 n		s.	0.01	0.3	light snow	C. N. Kitchel.
Pittsburg, Pennsylvania	29.65	753.1	30.50	774.7	22.6	— 5.2	78	n.	2	0.9			10 s			0	0	cloudy	W. A. Reid.
Poplar River, Montana	27.88	708.1	30.24	768.1				nw.			1		10 s			0	0	cloudy	W. D. Maxwell.
Port Eads, Louisiana	30.11	764.8	30.12	765 0	64.9	18.3	100	se.	4	1.8		0	fg.			0.10	2.5	clear	H. B. Boyer.
Port Huron, Michigan	29.84	757.9	30.57	776.5	8.0	—13.3	80	nw.	7	3.1		9 cs	0			inap.	inap.	clear	W. O. Bailey.
Portland, Maine	30.23	767.8	30.28	769.1	19.5	— 6.9	54	nw.	17	7.6		0	0			0	0	clear	W. W. Elchelberger.
Portland, Oregon	29.88	758.9	29.95	760.7	31.0	— 0.6	88	calm	0	0			10 s			0.06	1.5	cloudy	M. L. Hearne.
Portsmouth, N. C.					44	6.7	83	ne.			2	3 cs	5 ks	sw.		0	0	cloudy	F. S Coburn.
Prescott, Arizona	24.65	626.1	30.03	762.7	31.8	— 0.1	92	calm	0	0			8 n		sw.	0.10	2.5	light snow	W. H. Clendenon.
Provincetown, Mass	30.25	768.3	30.28	769.1	27	— 2.8	77	nw.	20	8.9		1 cs	2 s		nw.	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.19	766.8	30.20	767.1	67.5	19.7	97	e.	11	4.9			fg.			0	0	dense fog	W. J. Evans.
Red Bluff, California	29.73	755.1	30.10	764.5	36	2.2	100	nw.	6	2.7		0	5 ks		s.	0	0	fair	J. R. Williams.
Rochester, New York	29.79	756.7	30.50	774.7	15	— 9.4	83	n.	14	6.3			10 k			0	0	fair	E. W. McHann
Roseburg, Oregon	29.40	748.3	30.03	762.7	31	— 0.6	88	sw.	1	0.4		1 k	9 s	w.	sw.	0.01	0.3	cloudy	J. J. Naury.
Sacramento, California	30.00	762 0	30.08	764.0	39.2	4.0	89	calm	0	0			10 s		s.	0.03	0.8	cloudy	J. A. Barwick.
St. Louis, Missouri	29.71	754.6	30.35	770.9	20.4	— 6.4	93	ne.	16	7.2			10 n		ne.	0	0	sleeting	J. H. Weber.
St. Michael, Fort, Alaska	28.84	732.5	28.88	733.5	16	— 8.9	100	se.			4		10 s			0.04	1.0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.62	752 3	30.57	776.5	— 8.0	—22.2	78	n.	1	0.4		7 k	0			0	0	fair	P. F. Lyons.
St. Vincent, Minnesota	29.64	752.8	30.02	777.7	—25	—31.7	100	se.	3	1.3			10 s			0	0	cloudy	C. B Dilley.
Salt Lake City, Utah	25.53	648.5	30.10	764.5	25	— 3.9	64	calm	0	0			10 s			inap.	inap.	threatening	J. Craig.
San Antonio, Texas	29.39	746 5	30.12	765.0	46.0	7.8	100	n.	4	1.8			10 n			0.13	3.3	light rain	T. J. Kenan.
San Diego, California	30.00	762 0	30.07	763.8	52.2	11.2	93	e.	4	1.8		2 k	2 s	sw.	sw.	0.04	1.0	fair	A. C. Dobbins.
Sandusky, Ohio	29.81	757.2	30.53	775.4	14	—10.0	73	ne.	16	7.2		3 c	3 s			0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.38	771.0	30.41	772.4	31.0	— 0.6	78	nw.	17	7.6		9 k	0	nw.		0	0	cloudy	B. A. Blundon.
San Francisco, California	30.02	762.5	30.09	764.3	45	7.2	87	se.	2	0.9		2 c	fg.	nw.		0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.12	587.2	30.17	766.3	30	— 1.1	80	calm	0	0			10 s			0.06	1.5	cloudy	H. U. Jones.
Savannah, Georgia	30.22	767.6	30.32	770.1	53	11.7	69	e	4	1.8		10 cs	0	s.		0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.25	666.7	30.11	764.8	—12	—24.4	100	w.	1	0.4		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.83	757.7	30.08	764.0	46	7.8	93	n.	3	1.3			10 s		n.	0.67	17.0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.92	734.6	30.25	768.3	23.5	— 4.7	75	nw.	11	4.9			10 s		nw.	0.05	1.3	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.22	615.2	30.08	764.0	26.0	— 3.3	88	nw.	3	1.3		0	2 s			0.52	13.2	clear	N. D. Lane.
Sitka, Alaska	29.26	743.2	29.32	744.7	35.5	1.9	53	e.	24	10.7		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.66	753.4	30.16	766.1	38.0	3.3	94	calm	0	0			10 s			0.92	23.4	cloudy	J. B. Campbell.
Smithville, North Carolina	30.33	770.4	30.37	771.4	44	6.7	76	n	5	2.2		9 cs	0	w.		0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.92	709.2	30.00	763.5	15	— 9.4	87	calm	0	0			10 s			0.15	3.8	cloudy	H. Clifford.
Springfield, Illinois	29.08	753.9	30.41	772.4	18	— 7.8	76	ne.	15	6.7			10 s			0	0	cloudy	T. B. Jennings.
Springfield, Missouri	28.69	728.7	30.21	767.3	32	0.0	94	calm	0	0			10 n			0.13	3.3	light rain	J. H. Bryce.
Starkville, Miss	29.63	752.6	30.13	765 3	50	10.0	93	e.	12	5.4			10 n		e.	1.01	25.6	heavy rain	C. Dill.
Stevenson, Fort, Dakota	28.41	721.6	30.47	773.9	—12	—24.4	100	e.	7	3.1			10 n			0.03	0.8	light snow	W. Burrows.
Stockton, Fort, Texas	27.05	687.1	30.19	766.8	24	— 4.4	88	w.	1	0.4		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass	30.20	768.6	30.32	770.1	23.0	— 5.0	73	nw.	26	11.6		2 k	0	w.		0	0	clear	G. Liebmann.
Thomas, Camp, Arizona	27.26	692.4	30.10	764.5	41	5.0	92	calm			0		fg.			0.68	17.3	dense fog	J. T. Fitzgerald.
Toledo, Ohio	29.79	756.7	30.53	775.4	12	—11.1	80	ne.	10	4.5		6 cs	0			0	0	fair	A. Buell.
Tucson, Arizona	27.59	700.8	30.09	764.3	46	7.8	93	se.	2	0.9			10 s			0.42	10 7	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.70	754.4	30.09	764.3	16	— 8.9	91	se.	2	0.9		0	2 s			0.06	1.5	clear	J. Daly.
Verde, Fort, Arizona					40.7	4.8	82	s.			1	4 k	5 s	sw.	s.	0.23	5.8	cloudy	D. Brooks.
Vicksburg, Mississippi	29.83	757.7	30.10	764.5	54.2	12.3	93	se.	5	2.2			ton; fg			1.42	36.1	light rain	James Kenealy.
Visalia, California	29.08	753 9	30.07	763.8	33.7	0.9	93	s.	3	1.3			fg.			0	0	dense fog	O. D. Stewart
Washakie, Fort, Wyoming	24.18	614.2	29.97	761.2	— 1.9	—18.8	79	w.	1	0.4		0	0			0	0	clear	T. M. Ambler.
Washington, D. C.	30.34	770.6	30.40	773.7	34.7	1.5	62	n.	4	1.8			10 s		nw.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.91	658.1	30.05	763.3	6.5	—14.2	100	n.	5	2.2		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.84	757.9	30.40	773.7	26	— 3.3	88	n.	3	1.3		hz.	0			0.01	0.3	clear	B. F. Hough.
Wilmington, N. Carolina	30.31	769.9	30.37	771.4	44	6.7	93	ne.	3	1.3		3 ck	7s; sk			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.52	648.2	30.06	763.5	6.5	—14.2	64	ne.	7	3.1		0	3 s		ne.	0	0	cloudy	J. Grover.
Yankton, Dakota	29.02	737 1	30.44	773.2	—10	—23.3	50	nw.	4	1.8		0	0		sw.	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.85	758.2	30.00	762.0	46.5	8.1	93	e.	4	1.8		0	1 s			0	0	clear	W. S. Delano.
Sub-series.															se.	0.14	3.6	clear	
Bogota, U. S. Columbia	22.04	559.8			54.0	12.2	76	calm	0	0			8 ns						Joquin Gomez.
Kingston, Jamaica, W. I.	30.09	764.3	30.10	764.5	76	24.4	78	n.	4	1.8		8 cs	1 s		nw.	0	0	cloudy	Robert Johnston.
Paramaribo, S. A.	30.10	764.5	30.10	764.5	78	25.6	86	e.			3	5 k	4 s	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Colmbia	29.33	745.0	29.88	758.9	80	26.7	85	calm			0	3 c	1 s	calm	calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					77	25.0	93	ne.			4	ck	1 ks		ne.	0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	28.46	722.9	28.52	724.4	34	1.1	78	ne.			4		10 n			0.93	23.6	raining	W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallee.
York Factory, B. A.	30.45	773.4	30.52	775.2	—50.0	—45.6		w.	6	2.7		0	0			0	0	hazy	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.	Force.	Amount and kind. Upper.	Amount and kind. Lower.	Direction. Upper.	Direction. Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																	
H. M. S. Amethyst, S. 39° 10′, W. 61° 36′ †	29.74	755.4	74	23.3	76	nne.		3		4	n.						misty
H. M. S. Audacious, N. 5° 10′, E. 115° 03′	29.91	759.7	80	26.7	86	nw.		4		5	n.				4	nnw.	d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.02	762.5				wsw.		1–2		0							blue sky.
H. M. S. Carysfort, N. 29° 56′, E. 32° 33′	30.11	764.8	68	20.0	84	s.		1		1	s.						blue sky.
H. M. S. Champion, Singapore, Malay Peninsula	30.06	763.5	78	25.6	86	nne.		2		3	ne.				2	ne.	d. clouds.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.50	774.7				calm		0		0							blue sky.
H. M. S. Comus, N. 36° 39′, W. 122° 30′	30.06	763.5	50	10.0	90	nnw.		4		8					4	w.	d. clouds.
H. M. S. Condor, N. 32° 30′ E. 28° 20′	30.02	762.5	64.5	18.1	89	wsw.		5–6		9	wsw.				5	sw.	overcast.
H. M. S. Constance, N. 19° 48, W. 23° 53′	30.16	766.1	71	21.7		ese.		3		2	ese.				4	ese.	blue sky.
H. M. S Curacoa, Yokohama, Japan	30.12	765.0	44.5	6.9	86	calm		0		4							d. clouds.
H. M. S. Diamond, S. 34° 28′, E. 151° 24′	30.18	766.6	68	20.0	74	sse.		3–4		3					3	se.	d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.32	770.1	64.5	18.1	80	ssw.		1–2		6	ssw.						d. clouds.
H. M. S. Eurydus, Trincomalee, Ceylon	30.00	762.0	81	27.2	87	ne.		2		6	n.						d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.36	771.1	44.5	6.9	80	calm		0		8							misty.
H. M. S. Gannet, S. 37° 00′, W. 73° 11′	29.88	758.9	61	16.1	80	nne.		2		10							drizzling.
H. M. S Heroine, N. 12° 37′, W. 25° 37′	30.05	763.3	74	23.3	81	ene.		5		4	nne.				4	n.	d. clouds.
H. M. S. Himalaya, N. 47° 61′, W. 100° 55′	29.96	761.0	52	11.1	86	sw.		5–6		2					6	wsw.	blue sky.
H. M. S. Iron Duke, N. 7° 40′, E. 76° 20′	29.99	761.7	82	27.8	82	ne.		4–5		4	ne.				3	nne.	d. clouds.
H. M. S. Lark, S. 33° 05′, E. 163° 25′	30.07	763.8	67.3	19.6	87	ese.		5		6					4	se.	d. clouds
H. M. S. Magpie, N. 34° 41′ E. 135° 12′	30.31	769.9	41.6	5.3	79	calm		0		0							misty.
H. M. S. Monarch, Port Said, Egypt	30.04	763.0	68	20.0	50	sw.		3		2							blue sky.
H. M. S. Mutine, S. 5° 22′, W. 103° 12′	29.96	761.0	73.5	23.1		se.		3		10					1	se.	overcast.
H. M. S. Rocket, S. 33° 20′ W. 71° 58′	29.96	761.0	63	17.2	94	n.		2		3							d. clouds.
H. M. S. Serapis, N. 13° 41′, E. 49° 20′	30.05	763.3	78	25.6	77	ene.		2		3					1	ene.	d. clouds.
H. M. S. Superb, N. 36° 45′, E. 35° 45′ *	30.12	765.0	62	16.7	77	ene.		1		6	sw.						d. clouds.
H. M. S. Swiftsure, Callao Bay, Peru	29.98	761 5	67	19.4	90	sw.		1–2		6					2	s.	d. clouds.
H. M. S. Sylvia, Cape Providence, Patagonia	29.12	739.6	50.5	10.3	85	nw.		4		10							raining.
H. M. S. Tourmaline, Bombay, India	30.05	763.3				ne.		2		0							blue sky.
H. M. S. Zephyr, N. 37° 33′, E. 121° 25′	30.49	774.4	31	— 0.6		n.		2		1	n.				sm'l		blue sky.
Portuguese Naval.																	
Tamega, Macao, China	30.42	772.6	55.4	13.0	55	n.		4		0			0	0			blue sky
Swedish Naval.																	
Vanadis, N. 34° 04′, E. 24° 04′	29.88	758.9	62.2	16.8	89	sw.		4		10							overcast.
United States Naval.																	
Navy Yard, Pensacola, Fla *	30.20	767.1	59	15.0	81	ne.	5	2.2		10		ne.	0	0			cloudy.
Navy Yard, Portsmouth, N. H*	30.32	770 1	18	— 7.8	?	nw.	13	5.8		0			0	0			clear.
Naval Hospital, Yokohama, Japan*	30.11	764.8	46	7.8	30	ne.		1		0			0	0			clear.
Adams, Sitka, Alaska †	29.32	744.7	33	0.6	69	ene.		1		2							fair.
Alaska, Mare Island, Cal.	29.95	760.7	43	6.1	83	calm		0		0			0	0			clear.
Alliance, N. 17° 29′, W. 66° 06′	30.08	764.0	77	25.0	100	ene.		4		5			light	light	sm'l		fair.
Ashuelot, Shanghai, China	30.56	776.2	38	3.3	80	calm		1		0							clear.
Brooklyn, S. 35° 49′, W. 54° 44′ *	29.71	754.6	72	22.2	95	sw.	6	2.7		2		calm	0.08	2.0	sm'l		fair.
Colorado, New York, N. Y.	30.49	774.4	30	— 1.1	100	nw.	12	5.4		8		calm	0	0			misty.
Enterprise, N. 36° 56′, W. 69° 30′ *	30.27	768.8	55	12.8	73	n.		4		10		n.			sm'l		cloudy.
Essex, Callao, Peru	29.96	761.0	66	18.9	90	sse.		1		8		s.					fair.
Franklin, Norfolk, Va.	30.39	771.9	42	5.6	65	nne.	10	4.5		10		nw.	0	0			cloudy.
Galena, Montevideo, Uruguay *	29.70	754.4	78	25.6	77	wnw.		3		2					sm'l		hazy.
Hartford, S. 32° 17′, W. 73° 36′ *	29.83	757.7	63	17.2	94	nw.		3–4		10		nw.			sm'l	nw.	cloudy.
Independence, Mare Island, Cal.	30.08	764.0	41	5.0	91	calm		0		0			0	0			clear.
Iroquois, Callao, Peru	29.97	761.2	66	18.9	94	s.		2		8							fair.
Jamestown, Boston, Mass * †	30.20	767.1	27	— 2.8	77	nw.		1		0							clear.
Juniata, N. 38° 21′ W. 24° 49′	30.13	765.3	60	15.6	100	sw.		5		10		var.	0	0	long	w.	raining.
Kearsarge, St. Lucia Id., W. I	30.05	763.3	77	25.0	100	ene.		3		8		e.					cloudy.
Lackawanna, N. 0° 14′ W. 116° 26′ *	29.90	759.4	75	23.9	85	s.		2		10					long	se.	cloudy.
Lancaster, Genoa, Italy	30.04	763.0	59	15.0	87	nnw.		3		0							hazy.
Michigan, Erie, Pa.	30.18	766.6	24	— 4.4	60	e.		2		10		w.					cloudy.
Minnesota, New York, N. Y.	30.42	772.7	29	— 1.7	67	nw.	10	4.5		8		nw.					cloudy.
Monocacy, Nagasaki, Japan	30.38	771.6	46	7.8	85	ne.		2		5		ne.					fair.
New Hampshire, Newport, R. I.	30.29	769.4	29	— 1.7	67	nw.		2		2		calm			mod.	nw.	clear.
Nipsic, Lisbon, Portugal	30.38	771.6	61	16.1	66	n.		2		5							fair.
Onward, Callao, Peru * †	30.06	763 5	65	18.3	94	sse.		2		10		n.					cloudy.
Palos, Tientsin, China *	30.59	777.0	25	— 3.9	100	nnw.		3		0							clear.
Pensacola, Panama, U. S. C*	29.81	757.2	79	26.1	90	nw.	9	4.0		2			0	0	sm'l		clear.
Powhatan, Boston, Mass.	30.29	769.4	23	— 5.0	86	nw.		1		5							fair.
Quinnebaug, Genoa, Italy	30.06	763.5	59	15.0	93	nnw.		2		0							clear.
Ranger, N. 19° 50′, W. 110° 47′ *	29.90	759.4	73	22.8	81	nne.		3		10			map.	map.	sm'l		cloudy.
Richmond, Hong-Kong, China *	30.33	770.4	59	15.0	48	calm		0		0			0	0			clear.
Saratoga, New York, N. Y.	30.42	772.7	30	— 1.1	59	nw.		3–4		10		w.	0	0			overcast
St. Louis, League Island, Pa.	30.37	771.4	30	— 1.1	68	nw.		2		8		nw.	0	0			cloudy.
Tennessee, St. Pierre, Martinique, W. I *	30.09	764.3	79	26.1	90	ne.	5	2.2		5		ne.	0.02	0.5	sm'l		fair.
Vandalia, St. Thomas, W. I *	30.14	765.5	76	24.4	95	ene.		2		8		ne.					fair.
Wabash, Boston, Mass.	30.27	768.8	25	— 3.9	48	nw.	3	1.3		0			0	0			clear.
Wachusetts, Mare Island, Cal.	30.05	763.3	40	4.4	91	sw.		1		5		calm					clear.
Wyandotte, Washington, D. C	30.49	774.4	37	2.8	100	ne.		2		10		calm	0	0			cloudy.
Yantic, St. Vincent, W. I	30.10	764.5	78	25.6	86	e.		2		2							clear.
Merchant Marine.																	
S. S. Grecian, Glasglow, Scotland *	30.07	763 8	41	5.0	82	sse.		3		7		w.	0	0			cloudy.
S. S. Polynesian, N. 49° 48′, W. 41° 57′ *	29.33	745.0	29	— 1.7		sw.		8		9		sw.	hail	hail	h'v'y	sw.	snowing.
S. S. British Crown, Liverpool, England †	30.07	763.8	44	6.7		sse.		2		10			0	0			overcast.
S. S. Indiana, N. 50° 04′, W. 25° 05′			45	7.2	84	nw.		8		8		nw.	hail	hail	h'vy	nw.	squally.
S. S. Lord Clive, off Waterford Ireland	30.10	764.5				sse.		5		10		s.	0	0	mod.	s.	cloudy.
S. S. Lord Gough, Delaware river	30.29	769.4	33	0.6		nnw.		4		10			0	0			overcast.
S. S. Ohio, N. 48° 11′, W. 43° 53′ †	29.51	749.5	29	— 1.7	89	wsw.		6		9		w.			h'vy	w.	squally.
S. S. Pennsylvania, Liverpool, Eng †	30.09	764.3	45	7.2	84	se.		4		10		s.	0	0			cloudy.
S. S. Anchoria, N. 53° 00′, W. 24° 16′ †	29.40	748.3				se.		8		1		se.			mod	cf'd	gloomy.
S. S. Bolivia, N. 40° 31′, W. 69° 34′	30.29	769.4	34	1.1	90	nnw.		5		2		w.	0	0	mod.	nw.	clear.
S. S. Dorian, Castellamare, Sicily *	29.85	758.2				var.							0	0			clear.
S. S. Utopia, N. 32° 47′, W. 49° 41 †	30.44	773.2	66	18.9	68	w.		2		9		w.	2 h'r	2 h'r	sm'l	w.	showery.
S. S. Ailsa, N. 36° 02′, W. 74° 12′ †	30.37	771.4	54	12.2	87	n.		6		10		n.	2 h'r	2 h'r	r'gh	n.	overcast.
S. S. Carroll, N. 42° 38′ W. 69° 14′ * †	30.05	763.3	80	26.7		calm		0					8 h'r	8 h'r			fine.
S. S. Landaff City, N. 47° 50′, W. 39° 05′ * †	30.30	769.6	30	— 1.1		nw.		6		6		nw.	0	0	short	var.	fair.
S. S. Auckland, S. 53° 24′, W. 110° 56′	29.50	749.3				nw.		9		8		w.	hail	hail	h'vy	wnw.	squally.
S. S. Caldew, S. 18° 12′, E. 84° 23′	29.56	750.8	44	6.7	84	w.		5		9							showery.
S. S. City of Agra, S. 55° 25′, W. 103° 00′	30.15	765.8	77	25.0	82	se.		6		4							d. clouds.
Bk. Commewyne, N. 50° 41′ W. 15° 08′	29.27	743.4	42	5.6	83	wsw.		5		8							d. clouds.
S. S. Gordon Castle, Suez, Canal Egypt	29.79	756.7	48.2	9.0	64	sw.		3		4							d. clouds.
St. Kilda, N. 22° 00′ W. 62° 00′	30.09	764 3	66.0	18.9	54	s.		1		8							d. clouds.
S. S. Scotia, N. 43° 01′ W. 9° 41′	30.24	768.1	73.5	23.1	86	e.		3–6		5							raining.
S. S. Lake Huron, N. 46° 43′, W. 42° 47′ *	30.16	766.1	56	13.3	63	w.		3–5		2							blue sky.
S. S. Bothnia, N. 50° 55′, W. 16° 30′	29.62	752 3	30	— 1.1		w.		6		8			snow	snow	long	wnw.	snowy.
S. S. Marathon, N. 51° 54′, W. 6° 50′	29.66	753.4	50	10.0	86	sse.		2		5		se.	0	0	swell	w.	
S. S. Pavonia, N. 49° 49′ W. 28° 35′	29.87	758.7	50	10.0		s.		4		10		s.	0	0	mod.	sse.	cloudy.
S. S. Colima, St. John's, N. F †	28.79	731 3	45	7.2	92	w.		9		10		w.	18 h'r	18 h'r	h'vy	w.	cloudy.
	29.30	744.2				sse.		2		10		se.	snow	snow	sm'l		cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
MERCHANT MARINE—Continued.																		
S. S. Rhiwindda, N. 40° 37′, W. 69° 16′						w.			6		5		wsw.	snow	snow	sm'h	w.	
S. S. Labradore, N. 40° 17′, W. 71° 42′*†	30.39	771.9	35.6	2.0		nw.			0		5		w.	0	0	sm'h	nnw.	fine.
S. S. Abyssinia, N. 51° 06′, W 25° 08′	29.05	737.9	50	10.0	86	se.			8-9		9		se.	1 h'r	1 h'r	h'vy	var.	squally.
S. S. Wyoming, N. 42° 18′, W. 61° 48′	29.96	761.0	37	2.8		wnw.			6		5		nnw.	0	0	long	w.	threatening.
S. S. Bohemia, Hamburg, Germany*†	30.24	768.1				wnw.			2		10		nw.	2 h'r	2 h'r			fair.
S. S. Rugia, off Hinder, North Sea	30.30	769.6	59	15.0		s.			2-4		10							
S. S. Silesia, New York, N. Y†	30.44	773 2	27.0	—2.8		nw.			3		5?		nw.	snow	snow			overcast.?
S. S. Vandalia, N. 49° 09′, W. 18° 10′	29.67	753.6	52.7	11.5		sse.			7		10		sse.			r'gh	sse.	cloudy.
S. S. Wieland, N. 49° 39′, W. 20° 52′	29.50	749.3				w.			6		5		w.	rain	rain	high	sw.	stormy.
S. S. Mentmore, N. 50° 16′, W. 33° 07′*	29.25	742.9				wnw.			6		5		wnw.	snow	snow	light	nw.	threatening.
S. S. Archimedes, N. 4? 49′, W. 29° 39′	29.91	759.7				nne.			5		1		ese.	0	0	high	con.	clear.
S. S. Hevelius, Liverpool, Eng†	30.12	765.0	46	7.8		ese.			4		10		e.	0	0			overcast.
S. S. Ptolemy, N 48° 12′, W. 5° 57′	29.99	761.7	53.5	11.9	86	wsw.			7	c	8 kn		sw.	0.15	3.8	con.	sw.	squally.
S. S. Sirius, S. 10° 00′, W. 35° 10′ *	29.96	761.0				ne.			2		1		ne.	0	0		ne.	clear.
S. S. Bulgarian, N. 42° 31′, W. 68° 24′*	30.26	768.6				wnw.			6		8		nw.	0	0	high	wnw.	
S. S. Virginian, N. 50° 16′ W. 21° 00′*	29.43	747.5	52	11.1		ssw.			9		8		ssw.	3 h'r	3 h'r	h'vy	nw.	cloudy.
S. S. Colorado, N. 27° 03, W. 88° 31′ †	30.15	765.8	69	20.6		se.			4		3		ese.	6 h'r	6 h'r	mod.	se.	fair.
S. S. Rio Grande, N. 35° 20′, W. 75° 10′†	30.22	767.6	56	13.3		n.			3		4?		n.	6 h'r	6 h'r	mod.	n.	cloudy.?
S. S. San Marcos, Galveston, Texas	30.18	766.6	55	12.8		ne.			1					0	0			foggy.
S. S. Archimede, Marseilles, France†	30.03	762.7	52	11.1	60	n.			1		1		nw.	0	0			hazy.
S. S. Hermod, N. 49° 20′, W. 25° 22′†	28.62	726.9	54	12.2		w.			10		8		w.	8 h'r	8 h'r	high	var.	threatening.
S. S. Allegheny, N. 41° —′, W. 72° —′†	30.28	769.1	30	—1.1		nw.			5		8		ne.	0	0			cloudy.
S. S. Glenfyne, N. 14° 24′, W. 54° 14′						e.			3		2		e.	0	0	mod.	ese.	fair.
S. S. Brooklyn, Portland, Oregon *	30.29	769.4	16	— 8.9		nnw.			2				nnw.					clear.
S. S. Chalmette, N. 25° 10′, W. 83° 55′†	30.17	760.3	74	23.3		se.			3		2		se.	0	0	sm'h		clear.
S. S. Lone Star, N. 30° 35′, W. 79° 35′ †	30.25	768.3	74	23.3		ene.			4		10		ne.	sqll's	sqll's	r'gh	ne.	rainy.
S. S. Denmark, New York, N. Y†	30.49	774.4	29	—1.7		nw.			2		2		nw.	0	0			clear.
S. S. England, N. 44° 36′, W. 43° 29′	29.72	754.9				w.			6		10		w.	hail	hail	high	w.	squally.
S. S. Erin, Liverpool, Eng*†	30.06	763.5	35	1.7		n.			3		10			10 h'r	10 h'r			
S. S. Greece, N 50° 00°, W. 3° 49′	29.98	761.5	50	10.0		wsw.			5		9		sw.	0	0	h'vy	sw.	hazy.
S. S. Helvetia, New York, N. Y.	30.38	771.6	30	— 1.1		wnw.			5		5		nw.	0	0			fine.
S. S. Santiago, N. 33° 35′, W. 73° 40′	30.40	772.1	69	20.6	95	nne.			3		10		e.	4 h'r	4 h'r	sm'h		fine.
S. S. City of Alexandria, Vera Cruz, Mexico†	30.05	763 3	69	20.6	95	calm			0		4		sw.	0	0	small	n.	clear.
S. S. City of Washington, N. 21° 25′ W. 89° 24′ †	30.13	765.3	77	25 0		e.			4		0			0	0	light	e.	fine.
S. S. Alps, N. 21° 34′, W. 74° 07′	30.17	766.3	79	26.1		ene.			3							sm'h		cloudy.
S. S. Alpin, N. 38° 00′, W. 74° 25′	30.47	773.9	45.0	7.2		n.			4		8					sm'h		cloudy.
S. S. Alene, N. 21° 36′ W. 74° 06′†	30.18	766.6	75	23.9		e.			4									cloudy.
S. S. Braunschweig, S. 27° 21′, W. 44° 37′	29.97	761.2	82.0	27.8	85	nnw.			2		2		nw.	12mm	utes	light	e.	fair.
S. S. Neckar, N. 50° 21′, W. 13° 23′	29.85	758.2	53.0	11.7	61	nw.			5		5		nw.	1 h'r	1 h'r	cross	wnw.	fair.
S. S. Salier, Browershaven, Netherlands						nw.			5		2		nw.	light	light			fair.
S. S. Strassburg, S. 25° 53′, W. 43° 57	30.02	762.5	76.0	24.4	91	ne.			3-4		3		ne.	0	0	sm'h	ne.	clear.
S. S. Werra, N. 50° 10′, W. 32° 58′	29.32	744.8	39.2	4.0		nw.			5-6		10		nw.	2 h'r	2 h'r	r'gh	nw.	hailing.
S. S. Belgic, N. 35° 26′, W. 156° 25′*†	30.11	764.8	64	17.8	78	sw.			3		5		sw.	0	0	mod.	sw.	fair.
S. S. Coptic, N. 22° 16′, E. 114° 30′	30.39	771.9	57.5	14.2	69	ene.			3		0			0	0	sm'h		blue sky.
S. S. Gaelic, N. 34° 55′, W. 169° 17′	30.08	764.0	54	12.2	93	w.			4		5		wnw.				nw.	showery.
S. S. Oceanic, N. 45° 50′, E. 166° 20′*	29.43	747.5	34	1.1	79	wnw.			8		7		nw.			high	w.	hailing.
S. S. City of Augusta, Savannah, Ga †	30.17	766.3				nnw.			2		3			0	0			clear.
S. S. Mississippi, Seattle, Wash. Ter*†	29.86	758.4	41	5.0		se.			2		10		s.					cloudy.
S. S. Willamette, N 45° 50′, E. 124° 52′ †	29.86	758 4	47	8.3	92	ssw.			5		10		ssw.	0.08	2.0	mod	w.	rainy.
S. S. Columbia, N. 40° 49′, W. 124° 33′†	30.01	762.2	47	8.3	77	se.			2		5?		se.			sm'h	sse.	cloudy?
S. S. Oregon, San Francisco, Cal†	29.95	760.7	40	7.8	92	calm			0		0							foggy.
S. S. Ancon, San Francisco, Calf	29.98	761.5	43	6.1	100	w.			1		10		w.					hazy.
S. S. City of Chester, off Cape Mendocino, Cal*†	30.08	764.0	38	3.3	48	n.			6		0					long	nw.	clear.
S. S. G. W. Elder, Seattle, Wash. Ter†	30.00	762.0	39	3.9	82	se.			1		8		s.	4 h'r	4 h'r			cloudy.
S. S. Orizaba, N. 34° 26′, W. 120° 26′*†	30.00	762 0	54	12.2	67	nw.			7				nnw.	0	0	r'gh	wsw.	cloudy.
S. S. State of California, Portland, Oregon†	29.97	761.2	31	—0.6	100	calm			0		10			0	0			overcast.
S. S. Victoria, Oakland, Cal*†	29.94	760.5	51	10.6		nnw.			3		2		nne.					fair.
S. S. City of New York, S. 28° 06′, W 178° 42′†	29.75	755.6	77	25.0	77	e.			5		0			2 h'r	2 h'r	mod.	e.	clear.
S. S. City of Sydney, S. 18° 27′, W. 172° 39′†	29.67	753 6	81	27.2	87	sw.			2		8		sw.	0	0	mod.	w.	cloudy.
S. S. Colima, La Libertad, San Salvador, C.A†	29.93	760.2	81	27.2	91	ne.			2		4		calm	0	0	sm'h	se.	clear.
S. S. Grenada, N. 24° 59′, W. 112° 48′†	30.02	762 5	65	18.3	78	calm			0		0			0	0	sm'h	w.	clear.
S. S. San José, N. 8° 54′ W. 79° 30′*†	29.82	757.4				ne.			2	5 c?				0	0	long	sw.	clear.?
S. S. Zealandia, Sydney, N. S. W*	30.22	767.6	65	18.3	84	se.			2				s.					cloudy.
S. S. Muriel, N. 26° 00′ W. 66° 40′ *	30.32	770.1	74	23.3		e.			4		0			0	0	mod.	e.	clear.
S. S. Valencia, off Curacoa, W. I†	30.02	762 5	80	26.7	87	ese.			6		2		ene.	0	0	mod.	ese.	fine.
S. S. Belgenland, N. 50° 07′, W. 4° 00′†	30.14	765.5	50	10.0	86	se.			6		10		se.	1 h'r	1 h'r	mod.	var.	overcast.
S. S. Nederland, N. 42° 54′ W. 69° 16′			38	3.3		wnw.			6		8		wnw.	snow	snow	r'gh	wnw.	cloudy.
S. S. Penniand, Antwerp, Belgium	30.22	767.6	44	6.7	92	ese.			3		9		ese.	0	0			cloudy.
S. S. Rhyniand, N. 50° 10′, W. 24° 00′			46	7.8	84	w.			9		10		w.	4 h'r	4 h'r	high	w.	
S. S. Switzerland, N. 46° 14′, W. 44° 04′†	29.68	753.9				wsw.			4		10		wsw.	sleet	sleet	h'vy	wsw.	cloudy.
S. S. Waesland, Jersey City, N. J	30.42	772.7	33	0.6		nw.			4		8		wnw.	0	0			fair.
S. S. Maas, N. 40° 26′ W. 69° 13′	30.34	770.6	40.1	4.5		nw.			5		2		ene.	0	0	4	w.	fair.
S. S. Schiedam, N. 49° 20′, W. 16° 06′	29.71	754.5	53.8	12.1	70	s.			6		7		w.	3 h'r	3 h'r	h'vy	w.	hazy.
S. S. W. A. Scholten, N. 47° 23′, W. 40° 01′	29.76	755.9	38.8	3.8	99	wnw.			7		8		wnw.	24 h'r	24 h'r	high	w.	stormy.
S. S. State of Georgia, N. 52° 34′, W. 31° 31′†	29.20	741.7	39	3.9		calm			0		10			snow	snow	con.		rainy.
S. S. Baltic, N. 47° 00′ W. 38° 38′ *	29.64	752.8	39	3.9	82	nw.			6		8		nw.	snow	snow	h'vy	nw.	snowing.
S. S. Romano, N. 49° 25′, W. 15° 00′ *†	29.77	756.1	51	10.6		ssw.			7		7		ssw.	5 h'r	5 h'r	h'vy	sw.	squally.
S. S. Salerno, N. 47° 00′, W. 40° 12′	29.73	755.1	39	3.9		w.			9		10		w.	3 h'r	3 h'r	h'vy	w.	hailing.
S. S. Catherine Whiting, Barnegat, N. J †...	30.41	772.4				nw.			6				nw.	0	0	short	nw.	
S. S. Norman, N. 39° 59′, W. 75° 08′†	30.46	773.7				nw.			1				nw.	0	0			cloudy.
S. S. Saxon, N. 42° 20′, W. 70° 35′†	30.26	768.6	32	0.0		nw.			2		2			0	0	sm'h		fine.
MISCELLANEOUS.																		
Bk. Adelaide, N 10° 56′, W. 32° 45′*†	30.08	764.0	78	25.6		ene.			5		1		ene.	0	0	mod.	ene.	hazy
Bk. Alpha, N. 11° 50′ W. 42° 48′*†	30.05	763.3	80	26.7		ese.			5		4		e.	0	0	mod.	e.	fair.
Schr. Anna A. Holton, N. 21° 54′, W. 96° 25′†	30.07	763.8	74	23.3		s.			3		2		s.	0	0	mod.	n.	clear.
Bk. Anna Thormann, S. 34° 36′, E. 17° 22′	30.03	762 7	70.0	21.1	73	w.			2		0 k		w.	1 h'r	1 h'r	long	ssw.	fair.
S. S. Antonio Lopez, Cadiz, Spain	30.30	769 6	59	15.0	94	nnw.			3		8			2 h'r	2 h'r			fair.
Bk. Aquidneck, N. 24° 10′, W. 64° 15′*†	30.40	772.1	80	26.7		ne.			3		1		ne.	0	0	light	ne.	clear.
Bg. Arthur, N. 2° 24′, W. 14° 20′*†	30.08	764.6				sse.			1				se.	0	0	mod.	var.	fair.
Bk. B. F. Watson, N 17° 17′, E. 132° 05′†	30.02	762.5	82	27.8		ese.			3		0			0	0	mod.	var.	clear.
Bg. Belle of the Bay, Galveston, Texas†	30.13	765.3				nnw.			2		10		nw.	0	0			foggy.
Bk. Bremen, N. 50° 50′, E. 1° 03′*	30.26	768.6				sse.			5		2		sse.	0	0	sm'h		clear.
S. S. Burswell, N. 37° 55′, W. 57° 53′*†	30.09	764.3	64	17.8		wsw.			4		10		wsw.	0	0	sm'h		cloudy.
Bk. Champion, Philadelphia, Pa			38	3.3		nw.			4		8		nw.	0	0			fair.
Bk. Commerce, N. 39° 26′, W. 53° 45′†	30.07	763.8	59	15.0		sw.			5		5		wsw.	2 h'r	2 h'r	long	wsw.	fair.
Bk. E. D. Bigelow, N. 48° 07′ W. 7° 55′*†	29.95	760.7				wsw.			8		2		wnw.	sh'rs	sh'rs	long	wnw.	fair.
Schr. Edith R. Seward, Wilmington, N. C†	30.35	770.9	44	6.7		n			1		7		w.	0	0			fair.
Bk. Edmund Phinney, N. 10° 45′, W. 33° 40′†	30.06	763.5	78	25.6		ese.			5		3		ese.	0	0	rg'h	ese.	fair.
S. S. E. J. Spicer, Liverpool, Eng	30.15	765.8	53	11.7	93	sse.			3		5		s.	6 h'r	6 h'r			foggy.
Bk. Essex, S. 15° 35′, E. 46° 10′*†	29.93	760.2	80	31.7		ne.			3					0	0			fine.
Schr. F. E. McDonald, N. 32° 27′, W. 78° 00′†	30.28	769.1	66	18.9		ne.			4		8			0	0	mod.	e.	fine.
U.S. F. C. S. S. Fish Hawk, Washington, D. C†	30.45	773.4	41	5.0	82	calm			0		9		calm					cloudy.
S. S. Foscolia, N. 49° 51′, W. 8° 50′						w.			6		5		nw.	0	0	cross		fair.
Bk. Freya, Matanzas, Cuba, W. I			72	22.2		calm			0					0	0			hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Force.	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Bg. George, Ponce, Porto Rico, W. I*†.....	30.22	767.6	.....	.....	.....	e.	.....	.....	5	.....	10	.....	e.	0	0	mod.	.....	cloudy.
S. Geo. Stetson, N. 22° —′, W. 34° —′ *†.....	30.19	766.8	74	23.3	72	ese.	.....	.....	3	.....	1	.....	n.	0	0	long	nw.	clear.
Bk. Gronsvaer, Auckland, N. Z	29.92	760 0	74.0	23.3	.....	e.	.....	.....	3	.....	5	.....	w.	0	0	.....	.....	fair.
Bk. Hattie G. McFarland, N. 9° 00′, W. 56° 37′ *†.....	30.12	765.0	78	25.6	.....	e.	.....	.....	6	.....	3	.....	e.	0	0	sharp	e.	
Schr Hattie Weston, N. 33° 30′, W. 66° 50′ *†.....	30.40	772.1	60	15.6	.....	wsw.	.....	.....	4	.....	8	.....	sw.	0	0	mod.	wsw.	cloudy.
S. Hedwig, N. 40° 31′. W. 51° 05′	30.10	764.5	55.0	12.8	.....	wsw.	.....	.....	6	.....	6	.....	wsw.	0	0	4	nw.	
Schr. Isabel Alberto, Jersey City, N. J †.....	30.42	772.7	.....	.....	.....	nnw.	.....	.....	4	.....	2	.....	n.	0	0	.....	.....	clearing.
Schr. John L. Thomas, N. 31° 24′, W. 69° 45′ *†.....	30.40	772.1	.....	.....	.....	ssw.	.....	.....	3	.....	2	.....	s.	0	0	light	ne.	fine.
Bkt. Josephine, N. 3° 28′, W. 24° 58′†.....	29.95	760.7	84	28.9	75	ese.	.....	.....	4	.....	8	.....	.....	1½h'r	1½h'r	mod.	n.	fair.
S. S. J. W. Wilson, Port Eads, La.*†.....	30.07	763.8	65	18.3	.....	se.	.....	.....	1	.....	fg.	.....	.....	0	0	.....	.....	foggy.
Light House Tender Laurel, Key West, Fla†.....	30.16	766.1	73	22.8	.....	e.	.....	.....	1	.....	4	.....	se.	1 h'r	1 h'r	.....	.....	fair.
Bg. Lilian, N. 17° 52′, W. 57° 36′†.....	30.23	767.8	80	26.7	.....	ene.	.....	.....	4	.....	3	.....	ese.	2 h'r	2 h'r	r'gh	var.	clear.
Bk. Louise Adelaide, Vera Cruz, Mexico.....	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	.....	fine.
Bg. L. & W. Armstrong, N. 26° 49′, W. 69° 07′†*.....	30.36	771.1	.....	.....	.....	ene.	.....	.....	4	.....	3	.....	ne.	1 h'r	1 h'r	mod.	ne.	clearing.
Schr. Minnie A. Bonsall, Jacksonville, Fla †.....	30.28	769.1	64	17.8	.....	ne.	.....	.....	1	.....	.....	.....	ne.	.....	.....	.....	.....	cloudy.
S. Minnie N. Gerow, N. 32° 11′, W. 68° 45′*†.....	30.32	770.1	.....	.....	.....	wsw.	.....	.....	4	.....	10	.....	w.	.....	.....	mod.	w.	fine.
S. M. P. Grace, S. 49° 00′, W. 47° 55′ *.....	29.28	743.7	44	6.7	.....	sw.	.....	.....	4–6	.....	5?	.....	wsw.	0	0	.....	sw.	cloudy.?
Bg. Myrtle, N. 31° 03′, W. 60° 33′*†.....	30.02	762.5	.....	.....	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	fair.
Bkt. Norena, N. 29° —′, W. 75° —′*†.....	30.37	771.4	.....	.....	.....	sse.	.....	.....	3	.....	5	.....	s.	0	0	sm'h	.....	fair.
Bg. O. C. Clary, Miragoane, Hayti, W. I.....	30.04	763.0	82	27.8	91	sse.	.....	.....	2	.....	1	.....	e.	.....	.....	.....	.....	
Bk. Ottawa, N. 36° 01′, W. 3° 40′*.....	30.20	767.1	61	16.1	.....	w.	.....	.....	5	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. Paramita, San Francisco, Cal†.....	30.27	768.8	51	10.6	.....	sse.	.....	.....	2	.....	.....	.....	.....	0	0	.....	.....	clear.
Schr. Pearl Nelson, Portsmouth, Va *†.....	30.25	768.3	.....	.....	.....	ne.	.....	.....	6	.....	7	.....	ne.	.....	.....	.....	.....	cloudy.
S. S. Raleigh, Kingston, Jamaica, W. I*†.....	30.01	762.2	79	26.1	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	sm'h	.....	fine.
Bk. Reindeer, N. 31° 34′, W. 66° 00′*.....	30.39	771.9	.....	.....	.....	s.	.....	.....	4	.....	.....	.....	ne.	0	0	mod.	s.	
Schr. S. B. Hubbard, Jacksonville. Fla*†.....	30.31	769.9	64	17.8	.....	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	.....	threatening
Bk. Scud, N. 35° 20′, W. 65° 22′ *†.....	30.32	770.1	65	18.3	.....	wnw.	.....	.....	7	.....	10	.....	wnw.	rain	rain	r'gh	sw.	
Bk. Southern Belle, N. 36° 35′, W. 21° 20′*†.....	30.20	767.1	61	16.1	.....	ssw.	.....	.....	4	.....	5	.....	w.	0	0	h'vy	nw.	fair.
S. Sovereign of the Seas, N. 13° 57′, W. 118° 39′*†.....	30.02	762.5	77	25.0	82	ne.	.....	.....	2	.....	5?	.....	.....	0	0	cross	var.	overcast.†
Bk. Sunbeam, N. 41° 05′, W. 20° 58′*†.....	30.06	763.5	61	16.1	88	ssw.	.....	.....	7	.....	10	.....	w.	4 h'r	4 h'r	cross	var.	cloudy.
S. Titan, N. 36° 09′, W. 58° 32′*†.....	30.25	768.3	64	17.8	78	sw.	.....	.....	6	.....	6	.....	sw.	light	light	sm'h	sw.	cloudy.
Bk. Vincenzo Accame, N. 33° 20′, W 74° 30′.....	.....	.....	70	21.1	.....	nne.	.....	.....	4	.....	10	.....	ne.	½h'r	½h'r	.....	.....	gloomy.
Bk. Wandering Jew, Montevideo, Uruguay †.....	29.72	754.9	77	25.0	.....	calm	.....	.....	0	.....	6	.....	calm	0	0	.....	.....	fair.
Schr. Wm. Wiler, St. John's River, Fla†.....	30.26	768.6	.....	.....	.....	nnw.	.....	.....	1	.....	2	.....	nw.	0	0	.....	.....	fine.
Bk. Xenia, N. 37° 25′, W. 66° 51′*†..	30.22	767.6	59	15.0	.....	wnw.	.....	.....	6	.....	7	.....	nw.	7 h'r	7 h'r	cross	var.	cloudy.

International Chart I. January 4, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B.Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 5, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mil.	Inch.	Mil.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mil.		
Algerian.																			
Nemours	.....	.....	30.37	771.4	64.8	18.2	88	n.	.....	.....	3	.....	1	.....	.....	0	0	very fair	Malaterre.
Algiers	.....	.....	30.28	769.0	57.9	14.4	78	w.	.....	.....	5	.....	8	.....	.....	0.252	6.4	very cloudy	Thève.
La Calle	.....	.....	30.17	766.4	63.0	17.2	66	wnw.	.....	.....	4	.....	4	.....	.....	0	0	cloudy	Fonfréde.
Tunis	.....	.....	30.16	766.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.35	771.0	57.6	14.2	63	ne.	.....	.....	1	.....	2	.....	.....	0	0	fair	Pérès.
Tebessa	.....	.....	30.30	769.5	52.9	11.6	71	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dognon.
Geriville	.....	.....	.....	.....	47.5	8.6	58	nw.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Louchamp.
Laghouat	.....	.....	30.36	771.1	57.2	14.0	32	ene.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.30	769.7	61.9	16.6	32	nw.	.....	.....	7	.....	5	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.90	759.4	29.99	761 7	68.0	20.0	73	ssw.	2	0.9	.....	.....	1	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.73	755.1	30.30	769 7	37.4	3.0	72	s.	.....	.....	2	.....	5	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.48	748.7	30.30	769.6	24.4	— 4.2	86	nnw.	16.1	7.2	.....	.....	2	.....	.....	0.028	0.7	.....	Dr. Wierzbiski.
Eperies	29.23	742.5	30.17	766.3	26.2	— 3.2	70	nw.	.....	.....	5	5 cs	5 s	.....	se.	0	0	misty	Julius Mikolik.
Gratz	28.98	736 2	30.29	769.4	36.0	2.2	63	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.57	725.6	30.08	763.9	29.5	— 1.4	63	n.	.....	.....	4	.....	0	.....	.....	0.075	1.9	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.95	735.3	30.36	771.2	34.2	1.2	77	nw.	.....	.....	1	.....	1	.....	.....	0	0	clear	The Staff.
Lemberg	29.00	736.7	30.05	763.3	25.7	— 3.5	83	ne.	.....	.....	5	.....	10	.....	.....	0.067	1.7	.....	Dr. T. Stanecki.
Neu Schmecks	26.58	675.1	30.15	765.8	23.0	— 5.0	71	e.	.....	.....	4	.....	2	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.10	764 6	30.22	767.5	40.4	8.0	67	e.	.....	.....	1	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.61	752.0	30.07	763.8	30.0	— 1.1	94	n.	.....	.....	4	.....	.....	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.89	759.1	30.18	766.6	36.0	2.2	68	n.	.....	.....	3	.....	4	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.16	766.0	30.26	768.5	46.2	7.9	64	e.	.....	.....	1	.....	10	.....	.....	0	0	.....	Royal Academy.
Vienna	29.61	752.0	30.36	771.2	34.2	1.2	51	nw.	.....	.....	3	.....	2	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.87	758.7	29.97	761.2	44.9	7.2	84	sse.	20	8.9	.....	.....	7	.....	.....	0.025	0.6	squally	W. Boswell
Armagh, Observatory	29.05	753.1	29.88	758.9	47.0	8.3	85	ssw.	19	8.5	.....	.....	5	.....	.....	.....	.....	squally	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.02	762.5	43.3	6.3	96	se.	19	8.5	.....	.....	10	.....	.....	.....	.....	raining	John Hartnup.
Bolton, Sharples	29.50	749.3	30.04	763.0	42.1	5.6	94	se.	3	1.3	.....	.....	10	.....	.....	.....	.....	raining	Thomas Mackereth.
Bradford, Yorkshire	29.67	753.0	30.07	763.8	43.8	6.6	86	se.	.....	.....	2	.....	10	.....	.....	0.20	5.1	raining	McLandsborough&Preston
Bridgetown, Barbadoes	30.03	762.7	30.06	763.5	80.0	26.7	74	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H C.
Cardington	.....	.....	.....	.....	47.0	8.3	92	s.	.....	.....	0.6	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	30.09	764.3	30.23	767.8	47.6	8.7	90	s.	.....	.....	2	.....	7	.....	.....	blank	blank	d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.92	760.0	30.10	766.1	51.4	10.8	76	wsw.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.56	700.0	29.78	756.4	86.8	30.4	42	se.	.....	.....	1	.....	8	.....	.....	.....	.....	overcast	Corpl. F. Milner, A. H. C.
Galway	29.85	758.2	29.89	759.2	45	7.2	84	sw.	.....	.....	3	.....	7	.....	.....	0.10	2.5	showery	Wm. Ryan.
Gibraltar, Mediterranean	30.35	770.9	30.40	772 1	61.0	16.1	95	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	d. clouds	Sgt. J. Norris, A. H C.
Glasgow, Observatory	29.09	754.1	29.90	759.4	43.8	6.6	85	sse.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.03	762.7	30.20	767.1	48.4	9.1	85	ssw.	.....	.....	1	.....	9	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.90	759.4	30.20	767.1	48.0	8.9	99	wsw.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	A. Collenette, F. M. S
Kew, Observatory	30.17	766.3	30.21	767.3	48.3	9.1	89	sse.	.....	.....	.....	.....	10	.....	.....	.....	.....	misty	The Staff.
Leicester, Museum	29.87	758.7	30.13	765.3	45.0	7.2	88	s.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	30.07	763.8	30.14	765.5	61.2	16.2	55	n.	.....	.....	2	.....	3	.....	.....	0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.22	767.6	30.26	768.6	75.0	23.9	82	e.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	C. S. Duncombe
Oscott, St. Mary's College	29.57	751.1	30.10	764.5	43.7	6.5	92	s.	.....	.....	3	.....	10	.....	.....	.....	.....	raining	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.93	760.2	30.16	766.1	46.0	7.8	92	sse.	.....	.....	2	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Plymouth	30.04	763.0	30.12	765.0	51.4	10.8	96	ssw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	29.74	755.4	29.84	757 9	42.8	6.0	91	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	overcast	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.74	755 4	29.80	756.9	43.6	6.4	88	n.	.....	.....	3	.....	10	.....	.....	.....	.....	raining	W. H. Lyne.
Sheffield	29.81	757.2	30.10	764.5	45.2	7.3	90	s.	.....	.....	1	.....	10	.....	.....	0.11	2.8	overcast	W. F. Cooper.
Silloth Rectory	29.92	760.0	29.95	760.7	44.8	7.1	84	s.	.....	.....	1	.....	10	.....	.....	0.040	1.0	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.04	763.0	43.1	6.2	87	sse.	16	7.2	.....	.....	10	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Stratfield Turgiss	29.97	761.2	30.19	766.8	47.1	8.4	86	s.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.17	766.3	30.22	767.6	54	12.2	68	sw.	.....	.....	6	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.99	761.7	30.01	762.2	47.7	8.7	69	wsw.	22	9.8	.....	.....	7	.....	.....	blank	blank	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.24	768 1	30.29	769.4	—13	—25.0	80	nw.	10	4.5	.....	2 cs	0	nw.	.....	0	0	fair	H. J. Cundall, C E
Chatham, N. B*	30.33	770.4	30.40	772.1	—16	—26.7	100	w.	8	3.6	.....	5 c	2 ks	w.	w.	0	0	fair	G. A. Blair.
Cornwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dalhousie	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Father Point, Quebec*	30.53	775.4	30.55	776.0	—21	—29.4	.....	nw.	25	11.2	.....	.....	10 s	.....	.....	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.45	748.0	30.45	773.4	—28	—33.3	100	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	30.20	767.1	30.35	770.9	— 4	—20.0	100	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. Allison.
Kingston, Ontario*	30.11	764.8	30.50	774.7	— 5	—22.2	78	ne.	12	5.4	.....	.....	10 s	.....	.....	inap.	inap.	light snow	A. P. Knight, M. A.
Montreal, Quebec*	30.35	770.9	30.60	777.2	—18	—27.8	100	e.	2	0.9	.....	.....	10 n	.....	.....	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.65	753.1	30.44	773.2	— 2	—18.9	65	e.	10	4.5	.....	.....	10 n	.....	e.	0.02	0.5	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.51	749.5	30.28	769.1	10	—12.2	100	ne.	15	6.7	.....	.....	10 n	.....	.....	0.20	5.1	threatening	H. Morgan.
Port Stanley, Ontario	29.54	750.3	30.24	768.1	13	—10.6	91	ne.	12	5.4	.....	.....	10 n	.....	ne.	0.30	7.6	cloudy	M. Payne.
Quebec, Quebec*	30.23	767 8	30.01	777.5	—21	—29.4	100	w.	.....	.....	3	.....	8 c	.....	w.	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	30.03	762.7	30.57	776.5	—14	—25.6	80	e.	3	1.3	.....	0	8 s	.....	se.	.....	.....	light snow	W. H. McIntyre.
Saugeen, Ontario*	29.55	750.6	30.35	770.9	7	—13.9	100	ne.	16	7.2	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	.....
St. Andrews, N. B	30.43	772.9	30.48	774 2	—12	—24.4	90	nw.	8	3.6	.....	.....	10 n	.....	.....	0	0	cloudy	.....
Sydney, C. B*	30.04	763.0	30.11	764.8	8	—13.3	76	w.	15	6.7	.....	5 c	5 s	nw.	w.	0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.96	761 0	30.39	771.9	2	—16.7	91	ne.	26	11.6	.....	.....	10 n	.....	.....	0.25	6.3	light snow	Magnetic Observatory.
Yarmouth, N. S*	30.35	770.9	30.42	772.7	5	—15.0	93	n.	4	1.8	.....	.....	10 s	.....	n.	0.02	0.5	light snow	Lt. F. E. Wilmot, R N.
Cape Colony.																			
Cape St. Francis Lt. House	30.07	763.8	30.10	764.5	69.0	20.6	83	s.	14.8	6.6	.....	0	8 s	.....	.....	0	0	dull	John Duthie.
Springbok Fontein	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower. 0–10	Direction Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
CHINESE (*Sub-series*).																			
Sung-shu-chwang	24.71	627.5	.....	.....	18.7	— 7.4	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.39	771.8	30.50	774.6	21.6	— 5.8	58	sw.	.....	.....	3	.....	0	.....	.....	0	0	.....	**Mission, S. J.**
Zi-Ka-Wei, near Shanghai	30.63	778.0	30.65	778.6	26.4	— 3.1	72	nw.	0.7	0.3	.....	0	0	.....	.....	0	0	clear	**M. Marc Dechevrens .S.J**
DANISH.																			
Copenhagen	30.54	775.6	30.58	776.8	24.3	— 4.3	54	e.	16	7	.....	.....	6	.....	.....	.....	.....	.....	**Oversergent Fischer.**
Fanoe	30.50	774.7	30.52	775.2	28.0	— 2.2	85	ese.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	29.07	738.4	29.11	739.5	25.5	— 3.6	65	ene.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	**S. Kleinschmidt.**
Ivigtut, Greenland	29.00	736.7	29.02	737.2	20.8	— 6.2	.....	calm	.....	.....	0	.....	4	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.15	740.4	29.20	741.6	20.1	— 6.6	.....	e.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.27	743.4	29.31	744.5	33.8	1.0	90	e.	.....	.....	2	.....	10	.....	.....	.....	.....	snowing	**A. O. Thorlacius.**
Thorshavn	29.62	752.3	29.65	753.2	44.8	7.1	91	se.	20	9	.....	.....	10	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Vestervig	30.44	773.1	30.53	775.4	25.9	— 3.4	72	ese.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	**Loerer Oesterbol.**
Upernavik, Greenland	29.22	742.3	29.27	743.5	— 3.5	—19.7	.....	e.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	
FRENCH.																			
Agen, Normal School	29.85	758.3	30.52	775.3	50.7	10.4	95	calm	.....	.....	0	.....	k	.....	.....	0	0	.....	**M. Labroue, Director.**
Alençon, Normal School	29.86	758 5	30.41	772.5	41.4	5.2	97	sw.	.....	.....	1	.....	sk	ne.	ne.	0	0	.....	**M. Nicot, Director.**
Arras, Engineer School	30.01	762.2	30.28	769.0	41.0	5.0	94	.....	.....	.....	1	.....	n	.....	nw.	0	0	hazy	**M. Fénéon, Command't.**
Avignon, Normal School	30.20	767.1	30.28	769 1	50.7	10.4	50	n.	.....	.....	3	.....	o	.....	.....	0	0	.....	**M. Giraud, Director.**
Bar-sur-Seine	29.80	756 8	30.38	771.6	37.8	3.2	93	s.	.....	.....	1	.....	10	.....	.....	0	0	covered	**M. Saillard, Director.**
Beauvais, Normal School	30.06	763.4	30.33	770.4	41.0	5	90	sse.	.....	.....	1	.....	10	.....	.....	0	0	covered	**M. Frère Eugène Marié.**
Besançon, Normal School	29.40	746.8	30.38	771.6	39.2	4	97	ne.	.....	.....	1	.....	fg	.....	.....	0	0	foggy	**M. Gobin, Director.**
Bordeaux, Observatory	30.17	766.2	30.43	773.0	52.7	11.5	77	s.	.....	.....	1	.....	8	.....	w.	0.004	0.1	very cloudy	**M. Rayet, Director.**
Bourges, Normal School	29.84	757.8	30.41	772.4	41.9	5.5	91	sw.	.....	.....	1	.....	k	.....	sw.	0	0	.....	**M. Malet, Director.**
Brest, Naval Observatory	30.01	762.2	30.25	768.4	54.0	12.2	98	w.	.....	.....	3	.....	8	.....	w.	0.031	0.8	.....	**M. de Kermaingé, Dir.**
Caen, Normal School	30.14	765.6	30.22	767.6	47.1	8.4	67	ne.	.....	.....	1	.....	2	.....	ne.	0	0	slightly cl'dy	**M. Berson, Director.**
Châlons-sur-Marne, N.Sch'l	30.02	762.5	30.35	770 9	42.3	5.7	87	sse.	.....	.....	1	.....	2	.....	se.	0	0	slightly cl'dy	**M. Jadot, Director.**
Charleville, Normal School	29.80	756.9	30.32	770.1	41.0	5.0	54	sse.	.....	.....	1	.....	2	.....	.....	0	0	½ covered ..	**M. Grimard, Director.**
Clermont-Ferrand Obs'y	29.99	736.3	30.40	772 2	39.6	4.2	83	nne.	.....	.....	1	.....	10	.....	w.	0	0	covered	**M. Allnard, Director.**
Cluny, Normal School	29.50	749.4	30.39	771.8	39.6	4.2	74	w.	.....	.....	1	.....	fg	.....	w.	0	0	foggy	**M. de Villemontée, Dir.**
Commercy, Normal School	29.47	748 5	30.37	771.4	37.4	3	89	se.	.....	.....	6	.....	5 k	se.	se.	0	0	cloudy	**Dr. Coulet, Director.**
Gap, Normal School	27.71	703.7	30.32	770.0	41.9	5.5	50	n.	.....	.....	2	2 c	o	n.	.....	0	0	.....	**M. Jeangirard, Director.**
Gréasque, du Rhone	29.10	739.2	30.26	768.7	46.4	8.0	57	n.	.....	.....	1	.....	7	.....	sw.	0	0	.....	**M. Kina, Director.**
Grenoble, Normal School	29.59	751.6	30.40	772.2	38.8	3.8	80	e.	.....	.....	1	cs	o	.....	.....	0	0	.....	**M. Ablard, Director.**
Guéret	28.80	731.4	30.44	773.1	42.4	5.8	74	w.	.....	.....	3	o	8cn	.....	w.	0	0	very cloudy	**M. Delorme, Dir.**
Lamballe, Normal School	29.94	760.4	30.21	767.4	49.1	9.5	92	s.	.....	.....	2	.....	1	.....	s.	0.04	1	clear	**M. Ollitrault, Director.**
Lescar, Normal School	29.85	758.3	30.43	772.9	53.6	12.0	67	wsw.	.....	.....	1	o	5 n	.....	.....	0	0	cloudy	**M. Chauvin, Director.**
Lorient, Naval Observatory	30.18	766.5	30.28	769.1	52.2	11.2	90	ssw.	.....	.....	4	.....	10	.....	.....	0.165	4 2	raining	**Lt. T. Carré, Director.**
Lyon, St. Genis-Laval	29.32	744.6	30.43	772.7	36.1	2.3	99	ene.	.....	.....	1	.....	fg	.....	.....	0	0	dense fog	**M. André, Director.**
Mans, Normal School	30.05	763.3	30.37	771.4	45.5	7.5	90	s.	.....	.....	1	.....	5	.....	w	0.177	4.5	cloudy	**M. Piboëu, Director.**
Marseille, Observatory	29.96	761.0	30.24	768.0	52.7	11.5	76	nw.	.....	.....	0.1	.....	10	.....	wnw.	0	0	.....	**M. Stephan, Director.**
Montlouis	25.04	635.9	29.88	758.9	35.6	2.0	93	w.	9.4	4.2	.....	.....	8	sw.	.....	0	0	.....	**M Carè for Dr. Finss.**
Montpellier, Normal School	30.16	766.0	30.29	769.4	51.4	10.8	76	e.	.....	.....	2	.....	1	.....	s.	0	0	clear	**M. Galzin, Director.**
Nancy, Normal School	29.51	749.5	30.32	770.2	36.7	2.6	86	nne.	.....	.....	1	.....	k	.....	.....	0	0	foggy	**M. Hasse, Director.**
Nantes, Observatory	30.21	767.2	30.37	771.3	52.9	11.6	81	sw.	.....	.....	0–2	.....	10 k;n	.....	sw.	0	0	.....	**M. Larocque, Director.**
Perpignan, Observatory	30.22	767.5	30.33	770.4	55.2	12.9	58	n.	20.6	9.2	.....	.....	10	.....	.....	0	0	.....	**Dr. Fines, Director.**
Pic-du-Midi, Summit	21.37	542.9	.....	.....	26.6	— 3.0	.....	ne.	.....	.....	1	.....	1	.....	ne.	0.354	9.0	clear	**M. Vaussenat.**
Privas, Normal School	29.23	742.5	30.33	770 3	46.4	8	64	n.	.....	.....	1	.....	2	n.	n.	0	0	slightly cl'dy	**M. Taillen.**
Puy de Dôme Obs'y, Summit	25.32	643.0	.....	.....	30.4	— 0.9	100	wnw.	.....	.....	6	.....	10	.....	.....	0.008	0.2	foggy	**M. Allnard, Director.**
Rochefort, Naval Obs'y	30.35	770.8	30.38	771.6	52.9	11.6	100	ssw.	.....	.....	2	.....	5	.....	sw.	0.20	5.	½ covered	**Lt. E. Decante, Director.**
Roche-sur-Yon, N. School	30.10	764.6	30.32	770.1	48.2	9	.....	s.	.....	.....	1	.....	5	.....	n.	0	0	cloudy	**M. Brotier, Director.**
Rodez, Normal School	28 12	714.3	30.34	770.6	43.2	6.2	91	sw.	.....	.....	1	.....	fg	.....	.....	0	0	foggy	**M. Seger, Director.**
Rouen, Normal School	30.26	768.5	30.30	769.7	44.2	6.8	91	sw.	.....	.....	1	.....	2	.....	sw.	0	0	slightly cl'dy	**M. Mouillot.**
Saint Lô	.....	.....	.....	.....	48.0	8 9	81	sw.	.....	.....	2	.....	5	.....	ne.	0	0	cloudy	**M. Delaplanche, Dir.**
Saint Maur, Observatory	30.17	766.4	30.34	770.6	39.4	4.1	97	ssw.	.....	.....	1	.....	10	.....	w.	0	0	.....	**M. Renou, Director.**
Toulouse, Observatory	29.75	755.6	30.48	774.2	50.9	10.5	85	nw.	.....	.....	2	.....	8	nw.	.....	0.091	2.3	very cl'dy	**M. Bailland, Director.**
Tours	30.20	767 0	30.37	771.5	47.5	8.6	89	wsw.	.....	.....	1	.....	1	sw.	sw.	0	0	clear	**M. de Tastes.**
Versailles, Observatory	29.84	757.8	30.33	770.3	41.4	5.2	97	s.	.....	.....	1	.....	.....	.....	.....	0.209	5.3	.....	**Dr. A. Bérigny, Director.**
Sub-series.																			
St. Martin du Hinx	30.34	770.6	30.49	774 4	53.6	12.0	76	sw.	2.0	0.9	.....	6 ck	o	sw.	.....	0.094	2.4	.....	**M. Cartier, Director.**
GERMAN.																			
Ansbach	28.90	734.0	30.44	773 1	30.7	— 0.7	84	ne.	.....	.....	2	.....	4	ne.	.....	0	0	.....	**Prof. Jnedt.**
Bamberg	29.52	749.9	30.38	771.6	33.8	1.0	70	ne.	.....	.....	1	o	6 k	.....	w.	0	0	.....	**Prof. Dr. Hoh.**
Berlin	30.36	771.2	30.52	775.1	29.1	— 1.6	57	ne.	.....	.....	2	.....	7	nw.	.....	0	0	.....	**Dr. Lensch.**
Breslau	29.89	759.2	30.43	772.9	27.5	— 2.5	58	nne.	.....	.....	4	.....	3	.....	.....	0	0	.....	**Royal University Obs'y.**
Carlsruhe	29.92	760.0	30.39	771.8	35.8	2.1	81	s.	.....	.....	1	.....	10	sw.	.....	0	0	hazy	**Albert Senz.**
Cassel	29.65	753.0	30.36	771.1	33.4	0.8	85	e.	.....	.....	2	.....	7	ne.	.....	0	0	.....	**Dr. H. Möhl.**
Frankfort-on-the-Main	30.02	762 6	30.40	772.1	35.8	2.1	69	ne.	.....	.....	1	.....	8	.....	.....	0	0	.....	**Physical Society.**
Friedrichshafen	28 85	732.8	30.35	771.0	36.0	2.2	80	sw	.....	.....	3	.....	10	w.	.....	0	0	.....	**Wilhelm, Chief Tel.**
Hamburg	30.43	773 0	30.52	775.3	28.2	— 2.1	83	ese.	.....	.....	4	.....	6	.....	.....	0	0	.....	**E. Prelfer.**
Kiel	30.51	775 0	30.53	775.4	30.6	— 0.8	54	e.	.....	.....	2	.....	8	.....	.....	0	0	.....	**Prof. Dr. G. Karsten.**
Leipsic, Astron'l Obs'y	30.05	763.2	30.50	774-7	28.0	— 2.2	59	ne	.....	.....	4	.....	8	nnw.	.....	0	0	.....	**H. Leppig, Asst.**
Magdeburg	30.31	769.8	30.51	775.0	28.6	— 1.9	78	ene.	.....	.....	2	.....	10 ks	.....	n.	0	0	foggy	**Weather Observatory.**
Memel	30.46	773.7	30.51	774.9	12.6	—10.8	66	n.	.....	.....	4	o	1 k	.....	.....	.....	.....	.....	**Issermann.**
Munich	28.45	722.6	30.33	770.4	35.4	1.9	76	ne.	.....	.....	1	.....	8	nw.	.....	0.051	1.3	.....	**Central Station.**
Neufahrwasser	30.48	774.3	30.59	774 7	24.3	— 4.3	68	ne.	.....	.....	4	.....	9	.....	.....	0.020	0.5	.....	**A. Lothes.**
Neustadt, Palatinate	29.82	757.3	30.35	770.8	36.7	2.6	77	ne.	.....	.....	2	.....	8	e.	.....	0	0	.....	**Dieknether.**
Stuttgart	29.39	746.4	30.32	770.2	35.6	2.0	86	n.	.....	.....	1	.....	10	.....	.....	0	0	foggy	**Prof. Dr. Schoder.**
Wustrow	30.57	776.4	30.60	777.1	28.0	— 2.2	79	ene.	.....	.....	2	o	5 8	.....	.....	0	0	.....	**Profs. Brandes & Reimer.**
GREEK.																			
Athens	29.44	747.7	29.83	757.7	52.2	11.2	.....	n.	.....	.....	2.0	o	7 k	.....	.....	0	0	.....	**Schmidt & Wourltsch.**
INDIAN.																			
Kurrachee	30.11	764.9	30.16	766.2	78.6	25.9	47	ssw.	10.0	4.5	.....	.....	4	sw.	.....	0	0	d. clouds	
Deesa	29.60	751.8	30.07	763.8	84.8	29.3	27	sw.	.....	.....	.....	.....	0	.....	.....	0	0	hazy	
Bombay	30.01	762.2	30.05	763 2	80.7	27.1	67	wnw.	11.0	4.9	.....	.....	8	w.	wsw.	0	0	d. clouds	
Poona, Yarrowda	28.18	715.8	30.04	763.0	81.8	27.7	20	e.	10.0	4.5	.....	.....	2	ssw.	.....	0	0	d. clouds	
Belgaum	27.49	698.2	30.04	762.9	76.8	24.9	27	ese.	7.0	3.1	.....	.....	1	sw.	.....	0	0	d. clouds	
Lahore	29.37	745 9	30.15	765.7	60.6	15.8	55	calm	0	0	.....	.....	10	.....	.....	0	0	overcast	
Roorkee	29.23	742.4	30.17	766.3	61.8	16.6	58	calm	0	0	.....	.....	6	w.	.....	0	0	.....	
Agra	29.58	751.2	30.16	766.1	70.2	21.2	42	w.	2.0	0.9	.....	.....	2	.....	w.	0	0	d. clouds	
Nagpur	29.03	737.4	30.09	764.2	79.9	26.6	39	calm	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Jubbulpore	28.74	730.0	30.12	765.1	74.6	23.7	50	calm	2.0	0.9	.....	.....	2	sw.	.....	0	0	d. clouds	
Lucknow	29.77	756.1	30.16	766.0	67.3	19.6	58	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.82	757.5	30.15	765.8	61.7	16.5	67	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.98	761.4	30.17	766.4	65.6	18.7	61	nnw.	1.6	0.7	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	28.66	712 8	30.14	765.4	66.4	19.1	49	w.	3.0	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	30.02	762 6	30.11	764.7	77.9	25.5	59	nnw.	1.0	0.4	.....	.....	8	.....	.....	0	0	d. clouds	
Calcutta, Allpore	30.12	765.0	30.14	765.5	66.5	19.2	64	wnw.	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	30.02	762.6	30.15	765.7	67.4	19.7	74	calm	3.4	1.5	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	30.04	763 1	30.14	765 5	66.1	18.9	66	w.	2.5	1.1	.....	.....	3	.....	.....	0	0	blue sky	
Sibsagar	29.82	757.4	30.18	766.4	61.6	16.4	85	ne.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar	29.86	758.3	29 88	758.9	85.2	29.6	67	n.	8.4	3.8	.....	.....	2	.....	ne.	0	0	d. clouds	
Jeypore	28.65	727 8	30.14	765.5	69.7	20.9	67	sw.	0.1	0.0	.....	.....	4	sw.	.....	0	0	d. clouds	
Bellary	28 57	725 7	.....	.....	77.8	25.4	41	e.	6	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.79	756.7	.....	.....	78.5	25.8	60	e.	2	0.9	.....	.....	3	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.86	758.5	30.29	769.4	40.1	4.5	81	calm	0	0			9			0.004	0.1		Prof. Giovanni Clodig.
Milan	29.76	755.8	30.30	769.6	37.4	3.0	89	se.	3.8	1.7			6			0	0		Prof. Schiapparelli.
Padua	30.17	766.3	30.28	769.2	42.4	5.8	85	nnw.	2.5	1.1			8			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.33	744.9	30.27	768.9	41.4	5.2	67	nw.	0.7	0.3			6			0	0		Prof. F. F. Denza.
Genoa	30.04	762.9	30.23	767.9	53.6	12.0	65	calm	0	0			2	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.29	718.5	30.29	769.3	40.5	4.7	50	w.			2		1	w.		0	0		Prof. D. C. Bruno.
Pesaro	30.01	762.3	30.06	763.6	39.9	4.4	87	n.	3.8	1.7			10			0	0		Prof. Luigi Guidi.
Florence	29.98	761.4	30.24	768.1	42.1	5.6	77	w.			2		0			0	0		Prof. Costantino Pittei.
Leghorn	30.09	764.3	30.18	766.5	52.3	11.3	87	nne.	1.8	0.8			2			0	0		Prof. P. Monte.
Rome	30.02	762.5	30.20	767.0	52.3	11.3	39	n.	0	0			0			0	0		Prof. P. Tachini.
Lecce	29.83	757.6	30.09	764.2	50.0	10.0	66	nw.	24.8	11.1			3	nw.		0	0		Prof. C. de Giorgi.
Cosenza	29.22	742.2	30.13	765.4	48.6	9.2	73	nnw.	3.1	1.4			0			0	0		Prof. D. Conti.
Cagliari	29.98	761.6	30.18	766.6	53.1	11.7	71	nw.			2		9			0	0		Prof. A. Pacinotti.
Palermo	29.94	760.5	30.19	766.9	57.2	14.0	49	nnw.	8.7	3.9			1	nnw.		0.496	12.6		Prof. G. Caccintore.
Syracuse	30.06	763.5	30.10	764.6	58.1	14.5	48	nne.	15.0	0.7			3	nne.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.67	753.6	30.21	767.3	52.2	11.2	61	ne.	6.3	2.8			1			0	0		Prof. F. Brioschi.
Stelvio	22.24	565.0			23.4	— 4.8	39	e.			2		1			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.28	566.0			31.1	— 0.5	26	n.			2		4			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.11	764.8	30.14	765.6	28.8	— 1.8	77	calm			0		9 ck			0	0	cloudy	Hattori.
Awomori	30.07	763.7	30.10	764.6	23.3	— 4.8	66	w.	7.7	3.4		0	3 ks;s			0	0	fair	K. Ogawa.
Hakodate	30.04	763.0	30.05	763.3	30.7	— 0.7	86	wnw.	9.0	4.0			10			0	0	overcast	
Hamamatsu	30.14	765.5	30.17	766.2	40.4	4.7	67	calm			0	0	0			0	0	clear	
Kagoshima	30.32	770.0	30.33	770.3	41.2	5.1	69	nne.			2	0	8 s			0	0	cloudy	G. Miyanohaxa.
Kioto	29.99	761.7	30.17	766.4	34.3	1.3	90	s.	1.2	0.5		0	0			0	0	clear	M. Tojima.
Kochi	30.21	767.3	30.23	767.8	40.2	4.6	74	nw.	4.7	2.1		0	0			0	0	clear	K. Kusunose.
Miasaka	30.29	769.3	30.32	770.0	39.1	3.9	76	w.			2	0	1 s		w.	0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.13	765 2	30.34	770.6	41.0	5.0	60	n.	6.0	2.7		0	2 s			0.035	0.9	clear	S. Takehayashi.
Nigata	30.12	765.0	30.16	766.0	33.6	0.9	95	se.	0.8	0.4			10ck;s		nw.	0.125	3.2	covered	M. Morita.
Nobiru	30.09	764.2	30.10	764.6	31.9	— 0.1	88	nnw.	14.9	6.7		0	0			0	0	clear	H. Midzushina.
Numazu	30.04	762.9	30.07	763.8	38.2	3.4	74	calm			0	0	0			0	0	clear	R. Kaneda.
Sakai	30.22	767.6	30.23	767.9	34.5	1.4	94	w.			4		10 n s			0.949	24.1	snowing	K. Yamawchi.
Supporo					11.3	—11.5	91	calm	0	0		0	0			0	0	clear	
Tokei Obs'y, Yeddo	30.00	761.9	30.08	764.0	31.5	— 0.3	96	wnw.	3.5	1.5		0	0			0	0	clear	The Staff.
Wakayama	30.15	765.7	30.20	767.1	42.9	6.1	70	nw.	1.4	0.6		3 ck	1 ck	sw.	nw.	0	0	fair	Y. Kuwamaea.
Osaka	30.16	766.1	30.18	766.6	41.5	5.3	73	sw.	6.7	2.9		0	0			0	0	clear	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.84	757 9	30.03	762.7	82.5	28.1	60	ne.	14.0	6.3		5 c;cs	4 k	wsw.	ne.	0	0	cloudy	Oliver & Figon.
MEXICAN.																			
Altata																			H. Diaz Pena.
Guanajuato	23.71	602.1	29.93	760.1	50.9	10.5	94	calm	0	0		9 cs	0	sw.		0	0	fog;y	Prof. Vicente Fernandez.
Leon	24.38	619.2	30.19	766.8	48.9	9.4	91	w.			1	9 c	0	sw.		0	0	foggy	Prof. M. Leal.
Mazatlan	29.73	755.2	30.00	761.9	69.0	20.6	90	nnw.	1.6	0.8		4 cs	0			inap.	inap.	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.6	30.39	771.9	43.2	6.2	71	calm			0	1 c	1 ks			0	0	clear	The Staff.
Morelia	24.33	618.0	30.25	768.4	46.0	7.8	65	e.			2	2 c	2 k	s.	s.	0	0	½ cloudy	M. Tena, M. D.
Puebla, Catholic Institute	23.39	593.7	30.22	767.6	42.8	6.0	71	calm	0	0		0	5		sw	0	0	½ cloudy	Prof. P. Spina.
Zacatecas	22.54	572.5	30.28	769.0	46.8	8.1	62	wsw.	7.2	3.2		0	2 ns		sw.	0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.32	770.1	30.32	770.1	41.0	5.0		sse.			3					0	0		
Groningen	30.34	770.5	30.39	771.9	34.9	1.6		se.			4					0	0		
Helder																			
Hellevoetsluis	30.32	770.0	30.32	770.0	39.0	3.9	82	se.			2					0	0		
Utrecht	30.32	770.1	30.37	771.3	38.1	3.4	78	se.			2		5			0	0	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.96	761.0			77.7	25.4	79	nw.	0	0			6			0	0		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.28	769.1	30.34	770.7	32.0	0.0	49	s.	16	7			8			0	0		
Brono	30.33	770 4	30.37	771.4	24.4	— 4.2	41	calm	0	0			9			0	0		
Christiania	30.47	773.8	30.63	778.0	5.9	—14.5	96	e	0	0			3			0	0	foggy	
Gjæsvær	30.01	762.3	30.04	762.9	21.2	— 6.0		w.			6–7		7						
Lodlugen	30.25	768.4	30.30	769.6	21.7	— 5.7	67	calm			0		5			0.063	1.6		
PORTUGUESE.																			
Angra, Azores	30.06	763.6	30.22	767.6	59.4	15.2	55	sse.	11.2	5.0			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.46	748.2	30.48	774.3	53.2	11.8	74	ese.	2.5	1.1			4			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.30	769.6	30.39	771.8	64.2	17.9	76	se.	2.5	1.1			10			0.035	0.9		Capt. D. A. de Cunha.
Lisbon, Observatory	30.18	766.5	30.55	776.0	50.0	10.0	91	ene.	5.6	2.5			3	sw.		0.008	0.2		The Staff.
Ponta Delgada, Azores	30.21	767.3	30.28	769.1	59.0	15.0	64	calm	0	0			3			0.264	6.7		
Saint Paul de Loando	29.78	759.3	29.98	761.4	82.2	27.9	80	wsw.	1.8	0.8			2	sse.		0	0		
Serra da Estrella	25 01	650.5	30.45	773 3	44.1	6.7	19	wsw.	9.8	4.4			9			0	0		
RUSSIAN.																			
Akmolinski	28.71	729.1	29.84	758.0	22.8	— 5.1	100	sw.	18	8			10 n						Major K. Lasarew.
Archangel	29.88	758.9	29.90	759.4	— 4.7	—20.4	87	nw.	9	4			8 ks			0	0		Capt. Sseliwerstow.
Ashurnada	29.98	761.6	29.89	759 2	50.0	10.0	78	ene.	11	5		0	3 k			0	0		
Astrakhan	30.06	763.5	29.98	761.4	33.6	0.9	79	sse	16	7			10 s			blank	blank		Capt. Wisganow.
Baku	30.02	762.6	29.98	761.4	40.8	4.9	75	sw.	22	10		3 cs	0			0	0		
Barnaul	29.87	758.6	30.44	773.1	— 3.8	—19.9	74	w.	4	2			0			0	0		Meteorological Obs'y.
Bielosersk	29.41	746.9	29.91	759.8	7.0	—13.9	88	nw.	0	4			10 s			0.004	0.1		
Dorpat	30.06	763.6	30.34	770.5	5.4	—14.8	82	wnw.	7	3		0	0			0	0		Observatory.
Ekaterinburg	28.92	734.6	29.98	761.5	3.4	—15.9	59	wsw.	7	3		7 c	0			0	0	light clouds	Meteorological Obs'y.
Elissawetgrad	29.25	743.0	29.73	755.1	24.1	— 4.4		nw.	13	6			10 n			0	0		
Kasan	29.51	749.5	29.80	756.9	0.1	—12.7	86	sse.	20	9			10			0.130	3.3	snowing	Observatory.
Kem	30.02	762.6	30.08	763 9	— 7.6	—22.0	85	w.	4	2		0	0			0	0		
Kertch	29.58	751 3	29.66	751.8	47.3	8.5	94	calm	0	0			10 n			0.220	5.6		Lagorio & Sastyrez.
Kieff	29.21	741.8	29.89	759.2	14.5	— 9.7	64	nnw.	31	14		c;cs	9 ks;n			0.031	0 8		Observatory.
Koslov	29.09	738.9	29.05	753.2	18.1	— 7.7	95	nnw	13	6			10 s			0.323	8.2	heavy snow	
Libau	30.48	774.1	30.50	774.7	14.9	— 9.5	61	ne.	4	2			0			0	0		E. Quaas.
Lugan	29.35	745.4	29.54	750.3	35.6	2.0	69	sswv.	22	10			10			0.303	7.7		Meteorological Obs'y.
Moscow	29.35	745 4	29.88	759.0	1.8	—16.8	80	nnw.	13.4	6.0		4 cs	0			0	0		
Nikolaiev	29.08	753 9	29.70	755.8	32.0	0.0	89	nw.	22	10			10 n			0.055	1.4		Capt. Kurdakow.
Pekin, China	30.30	799.5	30.44	773 1	23.0	— 5.0	43	calm	0	0		0	0			0	0		Physical Observatory.
Petrozavodsk	29.84	757.9	30.00	763 0	— 4.0	—20.0	74	nw.	16	7		0	0			0	0		Dr. Bergmann.
Pinsk	29.63	752.0	30.15	765.9	27.0	— 2.8	49	n.	13	6		8 cs	0			0.008	0.2		
Poti	29.80	757.0	29.82	757.5	56.1	13.4	69	e.	4	2		0	2 ks			0	0		
St. Petersburg	30.17	766.2	30.18	766.6	— 2.6	—19.2	74	nw.	9	4		0	1 s			0	0		Central Physical Obs'y.
Samarkand																			
Sevastopol	29.45	747.9	29.61	752.1	36.1	2.3	94	nne.	27	12			10 n			0.303	7.7	heavy cld's.	
Semipalatinsk	29.60	751.7	30.32	770.0	2.8	—16.2	85	e.	20	9			4			0	0		Major Lasarew.
Staroi Bykhov	29.61	752.0	30.11	764.7	9.9	—12.3	55	ne.	9	4		0	1 ks			0.130	3.3		
Tiflis	28.57	725.7	30.01	762.3	45.5	7.5	83	calm	0	0		1 cs	0			0	0		Physical Observatory.
Tomsk	30.21	767 4	30.53	775.5	— 6.5	—21.4	84	s.	2	1			2 s						
Viatka	29.03	737.3	29.71	754 5	10.0	—12.0		s.	4	2			10			0.008	0.2	snowing	
Warsaw	29.84	758.0	30.30	769.7	19.8	— 6.8	70	nne.	25	11		0	6 k			0.039	1.0		Astronomical Obs'y.
Wilna	29.80	758 4	30.32	770.1	10.8	—11.8	78	n.	4	2			1			0	0		Berg, Assistant.
Yeniseisk	30.21	767.2	30.53	775.4	6.3	—14.3	78	w.	2	1			6			0.016	0.4		M. O. Marks.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Scottish.																			
Monach Lt	.....	.....	29.75	755.6	48	8.9	92	s.	.....	.....	6	.....	10	.....	.....	0.1	3.	hazy	J. Youngclause
North Unst	.....	.....	29.95	760.7	.....	.....	.....	s.	.....	.....	8	.....	10	.....	.....	blank	blank	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.22	767.6	30.32	770.2	55.8	13.2	64	nw.	0.7	0.3	.....	0	4	.....	.....	0	0	.....	Antonio Reve, Director.
Bilbao, Met. Obs'y	30.42	772.7	30.48	771.2	56.8	13.8	67	se.	1.3	0.6	.....	3	2	ne.	.....	0.051	1.3	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.47	697.6	30.62	777.8	34.3	1.3	80	n.	0.9	0.4	.....	.....	10	.....	.....	0.311	7.9	covered	Domingo Martin.
Madrid, Royal Obs'y	28.19	716.1	30.50	774.7	48.0	8.9	66	calm	0.4	0.2	.....	2	0	.....	.....	0	0	light clouds	The Staff.
Murcia, Met. Obs'y	30.24	768.2	30.39	772.0	60.4	15.8	58	wnw.	5.1	2.3	.....	2	1	se.	.....	0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.58	751.4	30.46	773.7	38.8	3.8	74	se.	4.3	1.9	.....	2 k	4 k	ne.	ne.	0	0	.....	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.50	749.3	30.42	772.6	52.7	11.5	79	sw.	4.3	1.9	.....	.....	10	.....	.....	0.035	0.9	covered	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.89	759.2	29.95	760.7	77.3	25.2	73	nne.	26.2	11.7	.....	.....	10 kn	.....	.....	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.35	770.8	30.45	773.3	58.8	14.9	61	calm	0	0	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I.	30.07	763.7	30.16	766.0	75.2	24.0	95	se.	11.2	5.0	.....	.....	10 n	.....	se.	0.425	10.8	raining	Manuel Maese.
Swedish.																			
Haparanda	30.30	769.6	30.34	770.6	2.8	—16.2	90	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	30.40	772.2	30.45	773.5	— 0.8	—18.2	89	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Hernosand	30.47	773.9	30.52	775.2	0.7	—17.4	89	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Stockholm	30.37	771.5	30.55	776.0	9.1	—12.7	61	wnw.	.....	.....	2	.....	0	.....	.....	0.028	0.7	.....	
Wisby	30.44	773.1	30.50	774.6	21.9	— 5.6	85	e.	.....	.....	4	.....	7	.....	.....	0.071	1.8	snowing	
Sub-series.																			
Upsala	30.46	773.6	30.54	775.8	3.2	—16.0	90	wsw.	2.9	1.3	.....	.....	0	.....	.....	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	28.91	734.4	30.39	771.9	37.6	3.1	81	wsw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Turkish.																			
Constantinople	.....	.....	29.81	757.2	43.9	6.6	88	n.	27	12.0	.....	.....	10	.....	n.	0.047	1.2	.....	The Observatory.
Valona	.....	.....	30.04	762.9	51.3	10.7	.....	ne.	.....	.....	2	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.88	759.0	61.5	16.4	62	sw.	.....	.....	3	10 cs	0	sw.	.....	0	0	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.66	677.2	.....	.....	29	— 1.7	85	nw.	.....	.....	1	.....	10 n	.....	.....	0	0	threatening.	Fred L. Kingsbury.
United States.																			
Albany, New York	30.40	772.1	30.49	774.4	7	—13.9	76	n.	8	3.6	.....	.....	10 n	.....	.....	0.20	5.1	light snow.	J. O. Barnes.
Alpena, Michigan	29.61	752.1	30.32	770.1	15	— 9.4	83	e.	16	7.2	.....	.....	10 n	.....	.....	0.26	6.6	light snow.	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.10	637.5	30.22	767.6	36	2.2	100	se.	2	0.9	.....	.....	10 n	.....	.....	0.08	2.0	light rain	W. C. Barnes.
Assinnaboine, Ft., Montana	26.81	681.0	29.85	758.2	— 5	—20.6	65	ne.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.03	737.3	30.26	768.6	41.0	5.0	100	e.	9	4.0	.....	.....	fg.	.....	.....	1.37	34.8	dense fog	H. C. Smith.
Atlantic City, New Jersey	30.26	768.6	30.28	769.1	33	0.6	88	ne.	20	8.9	.....	.....	10 s	.....	.....	0.24	6.1	cloudy	Jas. M. Watson.
Augusta, Georgia	30.10	764.5	30.30	769.6	47	8.3	89	ne.	3	1.3	.....	.....	10 n	.....	ne.	0.47	11.9	light rain	John Healy.
Baltimore, Maryland	30.28	769.1	30.33	770.4	26	— 3.3	88	e.	4	1.8	.....	.....	10 s	.....	ne.	0.17	4.3	threatening.	Geo W Felger.
Barnegat, New Jersey	30.26	768.6	30.28	769.1	32.0	0.0	92	e.	31	13.9	.....	.....	10 n	.....	e.	inap.	inap.	light snow.	G. A. Hill.
Behring Id., Behring Sea	29.18	741.2	29.20	741.7	18.0	— 7.8	.....	ne.	2	0.9	.....	.....	10 n	.....	.....	0.01	0.3	cloudy	Leonard Steineger.
Bennett, Fort, Dakota	28.56	725.4	30.30	769.6	—14	—25.6	71	calm	0	0	.....	0	0	.....	.....	0.03	0.8	clear	A. Pritchard.
Benton, Fort, Montana	26.89	683.0	29.87	758.7	27	— 2.8	56	sw.	18	8.0	.....	0	5 s	.....	sw.	0	0	fair	S. Wheaton.
Billings, Montana	26.51	673.3	.....	.....	9	—12.8	.....	s.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.24	717.3	30.23	767.8	—18	—27.8	100	e.	6	2.7	.....	0	0	.....	.....	0.02	0.5	clear	Cyrus Cramer.
Block Island, Rhode Island	30.35	770.9	30.38	771.6	18	— 7.8	84	ne.	20	8.9	.....	.....	10 ks	.....	ne.	inap.	inap.	cloudy	J. T. Elker.
Boise City, Idaho	27.27	692.6	30.20	767.1	14	—10.0	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	30.33	770.4	30.50	774.7	10.0	—12.2	58	nw.	11	4.9	.....	.....	10 n	.....	.....	0.13	3.3	light snow.	O. B. Cole.
Brownsville, Texas	30.03	762.7	30.08	764.0	55.0	12.8	100	n.	4	1.8	.....	.....	10 n	.....	.....	0.11	2.8	light rain	M. McCarty.
Buffalo, New York	29.49	749.0	30.29	769.4	8.6	—13.0	85	ne.	13	5.8	.....	.....	10 s	.....	ne.	0.07	1.8	cloudy	W. Finn.
Buford, Fort, Dakota	27.86	707.6	30.06	763.5	—11	—23.9	54	e.	10	4.5	.....	0	0	.....	.....	0.02	0.5	clear	F. A. Mellen.
Burlington, Vermont	30.26	768.6	30.57	770.5	— 6.3	—21.3	87	n.	10	4.5	.....	.....	10 s	.....	n.	0	0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.84	757.9	30.26	768.6	35.8	2.1	91	n.	2	0.9	.....	.....	10 s	.....	.....	0.05	1.3	threatening.	W. H. Ray.
Cape Henry, Virginia	30.21	767.3	30.23	767.8	39	3.9	100	n.	6	2.7	.....	.....	10 s	.....	.....	0.64	16.3	cloudy	A. K. Alderson.
Cape May, New Jersey	30.23	767.8	30.26	768.6	34.0	1.1	78	ne.	14	6.3	.....	.....	10 s	.....	.....	0.23	5.8	cloudy	W. E. Smith.
Cape Mendocino, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. J. McLean.
Cedar Keys, Florida	30.22	767.6	30.24	768.1	63	17.2	99	se.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	F. W. Mixer.
Champaign, Illinois	29.35	745.5	30.22	767.6	20.0	— 6.7	64	nw.	8	3.6	.....	.....	10 s	.....	nw.	0.16	4.1	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.19	766.8	30.25	768.3	49	9.4	100	n.	6	2.7	.....	.....	fg.	.....	.....	0.05	1.3	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.36	745.7	30.25	768.3	35.0	1.7	89	ne.	3	1.3	.....	.....	fg.	.....	.....	0.60	15.2	dense fog	D. O'Donoghue.
Chattanooga, Tennessee	29.37	746.0	30.23	767.8	46.0	7.8	93	se.	8	3.6	.....	.....	10n:fg	.....	.....	0.47	11.9	light rain	B. L. Goulding.
Cheyenne, Wyoming	23.88	606.5	30.13	765.3	19.4	— 7.0	61	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.46	748.3	30.20	767.1	22.0	— 5.6	84	se.	4	1.8	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.19	766.8	30.21	767.3	36	2.2	100	ne.	11	4.9	.....	.....	10n;fg	.....	ne.	0.17	4.3	light rain	C. F. Dickens.
Cincinnati, Ohio	29.52	749.8	30.21	767.3	32	0.0	88	nw.	1	0.4	.....	.....	10 s	.....	.....	0.17	4.3	cloudy	R. B. Watkins.
Cleveland, Ohio	29.38	746.2	30.16	766.1	20.7	— 6.3	86	e.	2	0.9	.....	.....	10 s	.....	e.	0.19	4.8	cloudy	J. B. Newlin.
Coleman City, Texas	28.29	718.6	30.17	766.3	34	1.1	88	s.	2	0.9	.....	0	6 s	.....	.....	0	0	fair	L. Dorman.
Columbus, Ohio	29.27	743.4	30.17	766.3	26	— 3.3	76	ne.	3	1.3	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.13	714.5	30.15	765.8	34.8	1.0	82	nw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. McGlone.
Custer, Fort, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. B. Lamar.
Davenport, Iowa	29.56	750.8	30.27	768.8	25	— 3.9	64	nw.	3	1.3	.....	.....	10 s	.....	.....	0.34	8.6	cloudy	R. R. Martin.
Davis, Fort, Texas	25.17	639.3	30.15	765.8	33	0.6	81	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.08	713.2	29.88	758.9	35	1.7	99	s.	24	10.7	.....	.....	10 s	.....	.....	0.25	6.3	cloudy	D. Moore.
Deadwood, Dakota	25.10	637.5	30.04	763.0	18	— 7.8	73	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. Willson.
Delaware Breakwater, Del	30.24	768.1	30.26	768.6	34	1.1	78	ne.	20	8.9	.....	.....	10 s	.....	.....	0.17	4.3	cloudy	T. S. Townsend.
Denison, Texas	29.37	746.0	30.21	767.3	34.0	1.1	88	ne.	2	0.9	.....	.....	10 s	.....	ne.	0	0	cloudy	J. W. Byram.
Denver, Colorado	24.65	626.1	30.17	766.3	23.0	— 5.0	100	s.	2	0.9	.....	.....	10 s	.....	.....	0.01	0.3	dense fog	F. M. Neal.
Des Moines, Iowa	29.35	745.5	30.32	770.1	8	—13.3	76	n.	6	2.7	.....	0	fg.	.....	.....	0.23	5.8	fair	F. W. Conrad.
Detroit, Michigan	29.48	748.8	30.24	768.1	15.0	— 9.4	100	n.	10	4.5	.....	.....	7 s	.....	n.	0.23	5.8	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.54	699.5	30.29	769.4	16	— 8.9	83	n.	.....	.....	1	.....	10 s	.....	ne.	0 30	7.6	cloudy	V. P. Temple.
Dubuque, Iowa	29.49	749.0	30.26	768.6	17.3	— 8.2	67	calm	0	0	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.48	748.8	30.29	769.4	5	—15.0	70	calm	0	0	.....	0	0	.....	.....	0.29	7.4	cloudy	N. B. Conger.
Eagle Pass, Texas	29.32	744.7	30.16	766.1	50.0	10.0	93	se.	5	2.2	.....	.....	10 n	.....	.....	0.08	2.0	clear	F. Belford.
Eagle Rock, Idaho	25.25	641.3	30.21	767 3	12	—11.1	70	sw.	8	3.6	.....	0	0	.....	.....	inap.	inap.	light rain	J. M. Clifford.
Eastport, Maine	30.43	772.9	30.50	774.7	—10.5	—23.6	72	nw.	22	9.8	.....	.....	10 s	.....	.....	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.27	692.6	30.20	767.1	26	— 3.3	76	w.	6	2.7	.....	.....	10 n	.....	nw.	0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.30	668.0	30.18	766.6	36.0	2.2	92	w.	4	1.8	.....	0	0	.....	w.	inap.	inap.	light snow.	J. O'Dowd.
Erie, Pennsylvania	29.42	747.3	30.18	766.6	20	— 6.7	84	ne.	7	3.1	.....	.....	10 s	.....	.....	0	0	clear	Peter Wood.
Escanaba, Michigan	29.58	751.3	30.30	769.6	8.0	—13.3	87	n.	10	4.5	.....	.....	10 n	.....	.....	0.07	1.8	cloudy	George Heathcote.
Fredericksburg, Texas	28.33	719.6	30.15	765 8	44	6.7	93	calm	0	0	.....	.....	10 s	.....	n.	0.09	2.3	light snow.	Frank Halwegler.
Galveston, Texas	30.07	763.8	30.12	765.0	54	12.2	100	n.	8	3.6	.....	.....	fg.	.....	.....	0	0	cloudy	E. O'C. MacInernay.
Grand Haven, Michigan	29.53	750.0	30.24	768.1	17.5	— 8.1	80	ne.	11	4.9	.....	.....	10 s	.....	.....	0	0	dense fog	J. E. Mueller.
Grant, Fort, Arizona	25.27	641.8	30.17	766.3	37	2.8	92	ne.	2	0.9	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.16	766.1	30.18	766 6	44	6.7	100	n.	18	8.0	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	R. M. Crawford.
Helena, Montana	25.55	649.0	29.98	761.5	22	— 5.6	88	sw.	1	0.4	.....	.....	10 s	.....	ne.	0.42	10 7	threatening.	N. C. Smith.
Henrietta, Texas	29.17	740.9	30.24	768.1	33	0.6	88	se.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	J. P. Sherry.
Huron, Dakota	28.84	732.5	30.38	771.6	—15	—26.1	46	nw.	2	0.9	.....	0	0	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.36	745.7	30.20	767.1	27	— 2.8	80	n.	4	1.8	.....	.....	10 s	.....	n.	inap.	inap.	clear	J. F. Jirdinston.
Indianola, Texas	30.08	764.0	30.11	764.8	49.1	9.5	93	n.	10	4.5	.....	.....	fg.	.....	.....	0.02	0.5	cloudy	I. A. Reed.
Jacksboro, Texas	28.99	736.3	30.23	767.8	36	2.2	79	s.	4	1.8	.....	.....	10 s	.....	s.	0.01	0.3	dense fog	D. J. Carr.
Jacksonville, Florida	30.20	767.1	30 24	768 1	57	13.9	100	calm	0	0	.....	.....	fg.	.....	.....	0.01	0.3	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.29	693.2	29.98	761.5	—12	—24.4	54	calm	0	0	.....	0	0	.....	.....	inap.	inap.	dense fog	A. Schneider.
Keokuk, Iowa	29.57	751.1	30.27	768.8	17.0	— 8.3	76	nw.	5	2.2	.....	.....	10 s	.....	nw.	0	0	clear	F. Z. Gosewisch.
																0.22	5.6	cloudy	

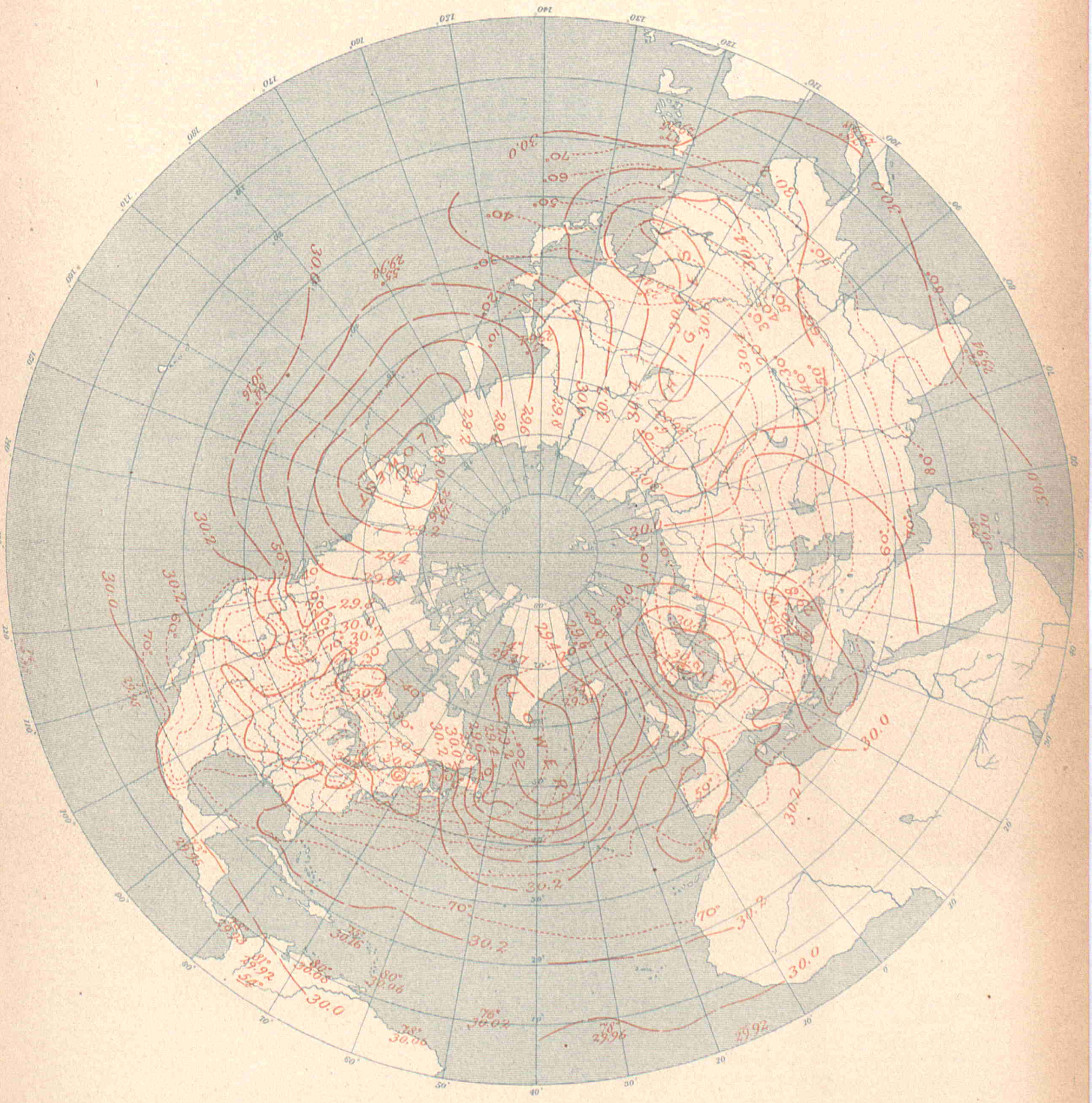
STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.17	766.3	30.19	766.8	72.0	22.2	97	e.	2	0.9		0	0			0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.19	766.8	30.21	767.3	42	5.6	100	n.	15	6.7			10 n			0.77	19.6	light rain	H. Mc P. Baldwin.
Knoxville, Tennessee	29.15	740.4	30.23	767.8	43	6.1	100	s.	2	0.9			10s;fg			0.30	7.6	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.42	747.3	30.26	768.6	11	—11.7	80	n.	2	0.9			10 n			0.21	5.3	light snow	S. C. Emery.
Leavenworth, Kansas	29.39	746.5	30.35	770.9	11	—11.7	80	n.	6	2.7			10 s			0.09	2.3	cloudy	A. W. Browns.
Lewiston, Idaho	29.00	736.0	29.87	758.7	38.5	3.6	73	se.	21	9.4			10 s			inap.	inap.	cloudy	W. Bell.
Little Rock, Arkansas	29.86	758.4	30.19	766.8	44	6.7	93	nw.	2	0.9			10 s			0.01	0.3	cloudy	W. U. Simons.
Los Angeles, California	29.84	757.9	30.24	768.1	44	6.7	83	ne.	6	2.7		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.58	751.3	30.18	766.6	39	3.9	82	ne.	1	0.4			10 s			0.23	5.8	cloudy	L. M Dey.
Lynchburg, Virginia	29.53	750.0	30.25	768.3	33.5	0.8	76	ne.	1	0.4			10 s		ne.	0.16	4.1	cloudy	Louis Duane.
Mackinaw City, Michigan	29.04	752.8	30.34	770.6	15.5	— 9.2	83	e.	20	8.9			10 s		e.	0.12	3.0	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.21	767.3	30.22	767.6	40.0	4.4	89	nw.	15	6.7			10 n		nw.	0.50	12.7	light rain	William Daly.
Madison, Wisconsin	29.15	746.4	30.24	768.1	12	—11.1	80	n	6	2.7			10 s			0.18	4.6	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.18	639.6	29.74	755.4	30	— 1.1	60	nw.	32	14.3		5 ck	0	nw.		0	0	fair	F. Burke.
McKavett, Fort, Texas	27.84	707.1	30.23	767.8	35	1.7	89	nw.	2	0.9			10 s			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.52	749.8	30.30	769.6	12	—11.1	80	s.	4	1.8			10 n			0.11	2.8	light snow	J. Gilligan.
Memphis, Tennessee	29.80	756.4	30.22	767.6	40	4.4	100	calm	0	0			10 s			0.25	6.3	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.40	746.7	30.20	767.1	25	— 3.9	73	se.	3	1.3			10 s			0.24	6.1	cloudy	W. Line
Missoula, Fort, Montana	26.45	671.8	29.91	759.7	31	— 0.6	81	sw.	6	2.7			10 s			0.02	0.5	threatening	I. H. Young.
Mobile, Alabama	30.14	765.5	30.18	766.6	59.3	15.2	95	s.	2	0.9			10s;fg			0.13	3.3	cloudy	C. A. Read.
Montgomery, Alabama	29.93	760.2	30.17	766.3	53.8	12.1	97	e.	4	1.8			10n;fg			0.16	4.1	light rain	J. B. McLaughlin
Moorhead, Minnesota	29.32	744.7	30.43	772.9	—30	—34.4	100	n.	4	1.8		0	0			0.14	3.6	clear	H. Bessant.
Morgantown, W. Virginia	29.11	739.4	30.17	766.3	42.5	5.8	85	sw.	8	3.6			10 s			0.05	1.3	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.58	598.9	30.21	767.3	— 6.0	—21.1	68	nw.	78	34.8		8 cs	0	nw.		0	0	cloudy	S. W. Beall.
Nashville, Tennessee	29.57	751.1	30.18	766.6	47.5	8.6	96	nw.	4	1.8			ton;fg			0.28	7.1	light rain	L. N. Jesunofsky.
New Haven, Connecticut	30.42	772.7	30.54	775.7	10	—12.2	80	ne.	6	2.7			10 n			0.06	1.5	light snow	J. H. Sherman.
New London, Connecticut	30.43	772.9	30.48	774.2	11	—11.7	100	n.	8	3.6			10 n		n.	0.16	4.1	light snow	J. G. Lynch.
New Orleans, Louisiana	30.10	764.5	30.16	766.1	64.5	18.1	95	sw.	1	0.4			fg.			0.15	3.8	dense fog	L. Dunne.
Newport, Rhode Island	30.41	772.4	30.46	773.7	11.0	—11.7	80	n.	9	4.0			10 n		n	0.05	1.3	light snow	W. McGillivray.
New York, New York	30.20	767.1	30.39	771.9	17	— 8.3	100	ne.	13	5.8			10 n		ne.	0.18	4.6	light snow	J. B. Merrill.
Norfolk, Virginia	30.20	767.1	30.23	767.8	40	4.4	82	n.	4	1.8			fg; sk			0.29	7.4	dense fog	Wm. Davis.
North Platte, Nebraska	27.10	689.9	30.28	769.1	11.6	—11.3	74	s.	6	2.7		0	0			inap.	inap.	clear	E. F. Brady.
Olympia, Washington Ty.	29.76	755.9	29.80	756.9	41.0	5.0	92	s.	7	3.1			10 n			0.44	11.2	light rain	J. Dascomb.
Omaha, Nebraska	29.11	739.4	30.38	771.6	0.0	—17.8	68	n.	5	2.2		0	0			0 12	3.0	clear	A. Pollak.
Oswego, New York	30.04	763.0	30.39	771.9	9.0	—12.8	76	e.	8	3.6			10 n			0.04	1.0	light snow	J. G. Linsley.
Palestine, Texas	29.02	752.3	30.20	767.1	43.5	6.4	94	n.	6	2.7			10 n			0.12	3.0	light rain	L. M. Pindell.
Pensacola, Florida	30.10	766.1	30.19	766.8	64.1	17.8	100	calm	0	0			fg.			0.68	17.3	dense fog	M. McGauran.
Philadelphia, Pa	30.25	768.3	30.36	771.1	19	— 7.2	84	ne.	13	5.8			10 n		ne.	0.04	1.0	light snow	T. T. Townsend.
Pike's Peak, Colorado	17.59	444.5	30.20	767.1	— 2	—18.9	79	sw.	16	7.2		0	6 k		sw.	0	0	fair	H. Hall.
Pioche, Nevada	24.05	610.9	30.28	768.3	18	— 7.8	87	nw.	1	0.4		0	0			0.07	1.8	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.29	744.0	30.14	765.5	32.0	0.0	88	sw.	1	0.4			10 s		sw.	0.15	3.8	cloudy	W. A. Reid.
Poplar River, Montana																			W. D. Maxwell.
Port Eads, Louisiana	30.10	766.1	30.17	766.3	65.0	18.3	97	s.	4	1.8			fg.			0	0	dense fog	H. B. Boyer.
Port Huron, Michigan	29.53	750.0	30.26	768.6	13.2	—10.4	72	ne.	7	3.1			10 s			0.14	3.6	cloudy	W. O. Bailey.
Portland, Maine	30.40	773.7	30.50	774.7	6.0	—14.4	48	n.	7	3.1			10s;hz			0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	29.87	758 7	29.94	760.5	45.0	7.2	93	s.	16	7.2			10 n		s.	0.62	15.7	light rain	M. L. Hearne.
Portsmouth, N. C.					44	6.7	100	n.			4		10 s		nw.	0.60	15.2	cloudy	F. S. Coburn.
Prescott, Arizona	24.99	627.1	30.07	763.8	31.2	— 0.4	92	nw.	2	0.9			10 n			0.08	2.0	light snow	W. H. Clendenon.
Provincetown, Mass.	30.41	772 4	30.41	773.2	18	— 7.8	83	ne.	7	3.1			10 n			0.17	4.3	light snow	P. T. Jenkins.
Punta Rassa, Florida	30.20	767.1	30.21	767.3	67	19.4	93	ne.	4	1.8		8 ck	1 ks	sw.	s.	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.97	761.2	30.34	770.6	42	5.6	93	n.	1	0.4			10 ks		sw.	0	0	cloudy	J. R. Williams.
Rochester, New York	29.05	753.1	30.36	771.1	6	—14.4	100	e.	8	3.6			10 n			0.10	2.5	light snow	E. W. McGann
Roseburg, Oregon	29.57	751.1	30.14	765.5	45.5	7.5	83	s.	3	1.3			10 s			0.14	3.6	cloudy	J. J. Nanry.
Sacramento, California	30.25	768.3	30.33	770.4	39.8	4.3	89	se.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.63	752.0	30.27	768.8	24.4	— 4.2	95	nw.	8	3.6			10 n			0.12	3.0	light snow	J. H. Weber.
St. Michael, Fort, Alaska	28.75	730.2	28.78	731.0	17	— 8.3	100	ne.			4	0	0			inap.	inap.	clear	A. P. Leavitt.
St. Paul, Minnesota	29.34	745 2	30.29	769.4	— 1.0	—18.3	68	nw.	1	0.4		1 cs	0			0.03	0.8	clear	P. F. Lyons.
St. Vincent, Minnesota	29.49	749.7	30.38	771.6	— 30	—34.4	100	ne.	1	0.4		0	0			0.06	1.5	clear	O. B Dilley.
Salt Lake City, Utah	25.71	653.0	30.28	769.1	23	— 5.0	51	se.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.40	746.7	30.14	765.5	46.5	8.1	96	ne.	5	2.2			10 s			0.04	1.0	cloudy	T. J. Kenan.
San Diego, California	30.14	765.5	30.21	767.3	45.6	7.6	91	ne.	8	3.6		0	0			0.05	1.3	clear	A. C. Dobbins.
Sandusky, Ohio	29.40	748.3	30.18	766.6	23	— 5.0	88	sw.	4	1.8			10 s			0.05	1.3	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.34	770.6	30.37	771.4	23.0	— 5.0	88	ne.	28	12.5			10 n			0.11	2.8	light snow	B. A. Blandon.
San Francisco, California	30.25	768.3	30.32	770.1	48	8.9	93	e.	1	0.4			10 s		e.	inap.	inap.	cloudy	N. Gorom.
Santa Fé, New Mexico	23.18	588.8	30.23	767.8	30	— 1.1	71	sw.	5	2.2			10 s			0	0	cloudy	H. U. Jones.
Savannah, Georgia	30.15	765.8	30.25	768 3	54.5	12.5	79	n.	3	1.3			fg.			0.03	0.8	dense fog	H. W. Ford.
Shaw, Fort, Montana	25.98	659.9	29.84	757.9	31	— 0.6	62	sw.	23	10.3			10 s			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.94	760 5	30.19	766.8	47	8.3	93	n.	4	1.8			10 s		n.	0.15	3.8	threatening	E. N. Meekins.
Sill, Fort, Indian Territory	28.94	735.1	30.26	768.6	29.5	— 1.4	79	ne.	5	2.2			10 s			0	0	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.31	617.5	30.17	766.3	28.0	— 2.2	96	nw	4	1.8		0	0			0.03	0.8	clear	N. D. Lane.
Sitka, Alaska	29.11	744.5	29.38	746.2	38.1	3.4	72	ne.	10	4.5		0	4 ks		ne.	0.05	1.3	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.72	754.9	30.22	767.6	33.0	0.6	88	calm	0	0			10 s			0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.20	767.1	30.24	768.1	42	5.6	92	n.	5	2.2			10 s		n.	0.09	2.3	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.73	704.3	29.87	758.7	34.8	1.6	93	sw.	10	4.5			10 s			0.38	9.7	cloudy	H. Clifford.
Springfield, Illinois	29.53	750.0	30.26	768 6	26	— 3.3	88	n.	5	2.2			10 s			0.15	3.8	cloudy	T. B. Jennings.
Springfield, Missouri	28.73	729.7	30.25	768.3	25	— 3.9	88	W.	5	2.2			10 s			0.11	2.8	cloudy	J. H. Bryce.
Starkville, Miss.	29.66	753.4	30.16	766.1	54	12.2	93	se.	4	1.8			fg.			1.08	27.4	dense fog	C. Dill.
Stevenson, Fort, Dakota	28.13	714.5	30.19	766.8	—10	—28.3	100	nw.	3	1.3		0	0			0.03	0.8	clear	W. Burrows.
Stockton, Fort, Texas	27.00	685.8	30.14	765.5	37	2.8	82	sw.	2	0.9		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass.	30.44	773.2	30.50	774.7	14.4	— 9.8	91	ne.	19	8.5			10 n		ne.	0.11	2.8	light rain	G. Liebmann.
Thomas, Camp, Arizona	27.31	693.7	30.14	765.5	40.5	4.7	94	s.			1		10 ks			0.02	0.5	cloudy	J. T. Fitzgerald.
Toledo, Ohio	29.40	748.3	30.20	767.1	17	— 8.3	83	ne.	12	5.4			10 s			0.40	10.2	cloudy	A. Buell.
Tucson, Arizona	27.66	702.6	30.16	766.1	43	6.1	93	calm	0	0			9 n			0.02	0.5	light rain	J. L. Whiteside.
Umatilla, Oregon	29.54	750.3	29.93	760.2	30	— 1.1	88	se.	9	4.0			10 s			inap.	inap.	cloudy	J. Daly.
Verde, Fort, Arizona					43.4	6.3	76	W.			1		10 s		W.	0.06	1.5	cloudy	D. Brooks.
Vicksburg, Mississippi	29.89	759.2	30.16	766.1	50.2	13.4	97	calm	0	0			fg.			0.07	1.8	dense fog	James Kenealy.
Visalia, California	29.95	760.7	30.34	770.6	31.9	— 0.1	92	se.	2	0.9		0	0			0	0	clear	O. D. Stewart
Washakie, Fort, Wyoming	24.30	617.2	30.00	764.3	2.2	—16.6	79	W.	7	3.1		0	3 s			0	0	clear	T. M. Ambler.
Washington, D. C.	30.20	767.1	30.32	770.1	25.5	— 3.0	94	e.	5	2.2			10 s			0.27	6.9	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.06	661.9	30.20	767.1	7	—13.9	80	nw.	4	1.8		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.64	752.8	30.26	768.6	19	— 7.2	91	e.	5	2.2			10 n			0 17	4.3	light snow	B. F. Hough.
Wilmington, N. Carolina	30.18	766.0	30.24	768.1	42	5.6	92	n.	7	3.1			10 s		W.	0.02	0.5	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.68	652.3	30.22	767.6	30	— 1.1	80	sw.	14	6.3			10 s		sw.	0.10	2.5	cloudy	J. Grover.
Yankton, Dakota	28.92	734.6	30.34	770.6	—13	—25.0	40	nw.	3	1.3		0	0			0.08	2.0	clear	J. H. Attfeld.
Yuma, Arizona	30.01	762.2	30.16	766.1	45.7	7.6	86	nw.	2	0.9		0	0			0	0	clear	W. S. Delano.
Sub-stories.																			
Bogota, U. S. Columbia	22.03	559.6			54.0	12.2	52	s.	1	0.4		1 c	1 ks	se.	W.	0	0	fair	Joaquim Gomez.
Kingston, Jamaica, W. I.	30.09	764.3	30.10	764.5	70	21.1	89	calm	0	0		1 cs	0			0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	78	25.6	86	e.			3	5 k	3 s	e.		0.040	1.0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.37	746.0	29.92	760.0	81	27.2	85	calm			0		10 ks		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.																			Earl Flint.
St. Paul, Kodiak Id., Alaska	28.94	735.1	29.00	736.6	29	— 1.7	88	calm			0	7 cs				0.01	0.3	fair	W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe.
York Factory, B. A.	30.34	770 6	30.41	772.4	—45.0	—42.8		sw.	0	4.0		0	0			0	0	hazy	Fortescue & Weed

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Amethyst, Port Belgrano, La Plata, S. A†	29.83	757.7	73	22.8	95	s.			3-4		3	sw.						squally.
H. M. S. Audacious, N. 6° 54′, E. 115° 11′	29.90	759.4	79	26.1	90	nnw.			4		4	nne.				5	nne.	d. clouds.
H. M. S. Boadicea, Simons Bay, Cape Colony	30.15	765.8				se.			3-4		2							d. clouds.
H. M. S. Carysfort, N. 29° 56′, E. 32° 33′	29.94	760.5	67	19.4	84	wsw.			4-5		5	w.						squally.
H. M. S. Champion, Singapore, Malay peninsula	29.98	761.5	78	25.6	86	nne.			3		10	ne.				1	ne.	overcast.
H. M. S. Cleopatra, N. 31° 15′ E. 121° 29′	30.64	778.2	29	— 1.7	78	w.			1		0							blue sky.
H. M. S. Comus, N. 34° 27′, W. 121° 42′	30.32	770.1	52	11.1	86	nne.			2		4	n.						d. clouds.
H. M. S. Candor, N. 34° 11′, E. 26° 35′	29.68	753.9	61.5	15.4	85	w.			5-7		7	w.				7	w.	squally.
H. M. S. Constance, St. Vicent, Cape Verd Island	30.16	766.1	71	21.7		ene.			2		2	ene.						blue sky.
H. M. S. Curacoa, Yokohama, Japan	30.05	763.3	43.5	6.4	84	calm			0		2							blue sky.
H. M. S. Crocodile, N. 49° 03′, W. 8° 40′	30.15	765.8	54	12.2	86	wsw.			6		3					3	wsw.	squally.
H. M. S. Diamond, S. 35° 02′, E. 151° 10′	30.13	765.3	68	20.0	79	se.			3-4		4	se.				2	se.	d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.22	767.6	66	18.9	90	ssw.			1-2		7	ssw.						d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.32	770.1	43.5	6.4	80	nnw.			1		5							d. clouds.
H. M. S. Gannet, S. 37° 00′, W. 73° 11′	29.99	761.7	63	17.2	83	ssw.			1		2							blue sky.
H. M. S. Heroine, N. 9° 51′ W. 25° 30′	30.03	762.7	77	25.0	77	ne.			4		4	ne.				3	nne.	d. clouds.
H. M. S. Himalaya, N. 44° 12′, W. 11° 28′	30.37	771.4	56	13.3	87	wsw.			2		1					2	wsw.	blue sky.
H. M. S. Iron Duke, N. 8° 22′, E. 74° 50′	29.94	760.5	82	27.8	82	n.			1-2		2	ne.				1	nne.	blue sky.
H. M. S. Lark, S. 32° 37′, E. 164° 10′	29.97	761.2	67.3	19.6	81	ese.			4		8					3	se.	d. clouds.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.18	766.6	43.7	6.5	66	w.			1-2		0					2	ese.	blue sky.
H. M. S. Monarch, Port Said, Egypt	29.91	759.7	63	17.2	71	sw.			3-5		6							squally.
H. M. S. Mutine, S. 4° 47′, W. 105° 40′	29.94	760.5	72.5	22.5		se.			4		10					3	se.	overcast
H. M. S. Rocket, S. 35° 20′, W. 72° 30′	29.94	760.5	69	20.6	95	s.			2		4							d. clouds.
H. M. S. Serapis, N. 14° 52′, E. 53° 27′	30.10	764.5	79	26.1	73	ene.			2		3					1	ene.	d. clouds.
H. M. S. Superb N. 30° 45′, E. 35° 45′	29.97	761.2	56	13.3	68	se.			5-6		9	e.				6	se.	showery.
H. M. S. Swiftsure, Callao, Peru	29.98	761.5	66	18.9	94	se.			1		8					3	s.	misty.
H. M. S. Sylvia, Cape Providence, Patagonia	29.61	752.1	48	8.9	92	nw.			4		10							misty.
H. M. S. Tourmaline, Bombay, India	30.03	762.7				wnw.			2		1	wnw.						blue sky.
H. M. S. Zephyr, N. 37° 33′, E. 121° 25′			26	— 3.3		w.			1		0					sm'l		blue sky.
Portuguese Naval.																		
Tamega, Macao, China	30.42	772.7	57.2	14.0	55	n.			5		0			0	0			blue sky.
Swedish Naval.																		
Vanadis, N. 34° 21′, E. 23° 56′	29.73	755.2	60.3	15.7	68	wnw.			6		4							squally.
United States Naval.																		
Navy Yard, Pensacola, Fla*	30.17	766.3	65	18.3	94	n.	1	0.4			10		n.	0.2	5.			foggy.
Navy Yard, Portsmouth, N. H*	30.52	775.2	3	—16.1	7	n.	7	3.1			10		n.	0	0			cloudy.
Naval Hospital, Yokohama, Japan*	29.99	761.7	37	2.8	62	calm			0		0			0	0			clear.
Adams, Sitka, Alaska†	29.38	746.2	34	1.1	90	ene.			1		0							clear.
Alaska, Mare Island, Cal	30.21	767.3	46	7.8	92	calm			0		10			0	0			cloudy.
Alliance, N. 17° 15′ W. 68° 28′	30.12	765.0	79	26.1	95	ene.			3		8			light	light	mod.		cloudy.
Ashuelot, Shanghai, China	30.66	778.7	32	0.0	89	nnw.			1		0							clear.
Brooklyn, S. 38° 43′ W. 50° 16′*	29.61	752.1	66	18.9	94	w.	9	4.0			8		calm	0	0	sm'l		hazy.
Colorado, New York, N. Y.	30.51	774.9	17	— 8.3	7	ne.	9	4.0			10							snowing.
Enterprise, N. 36° 45′, W. 67° 31′*	30.24	768.1	55	12.8	80	ene.			1		10		n.			sm'l		cloudy.
Essex, Callao, Peru	29.93	760.2	66	18.9	94	se.			1		10							foggy.
Franklin, Norfolk, Va	30.22	767.6	41	5.0	83	ne.	6	2.7			10			0.6	15.			cloudy.
Galena, Montevideo, Uruguay*	29.76	755.9	83	28.3	70	nw.			3		8					sm'l		hazy.
Hartford, S. 31° 37′, W. 74° 25′ *	29.89	759.2	64	17.8	94	se.			3		8		se.			sm'l	s.	cloudy.
Independence, Mare Island, Cal	30.31	769.9	45	7.2	92	calm			0		10			0	c			cloudy.
Iroquois, Callao, Peru	29.95	760.7	66	18.9	94	se.			2		10							overcast.
Jamestown, Boston, Mass*†	30.44	773.2	8	—13.3	78	nnw.			2		10							snowing.
Juniata, N. 38° 10′, W. 21° 17′*	30.27	768.8	62	16.7	94	ese.			3		10		calm	sli't	sli't	sm'l		overcast
Kearsarge, St Lucia Island, W. I.	30.10	764.5	77	25.0	95	e.			1		5		e.					fair.
Lackawanna, N. 1° 43′, W. 118° 30′*	29.88	758.9	74	23.3	85	n.			1		10		n.			sm'l	se.	fair.
Lancaster, Genoa, Italy	30.21	767.3	59	13.3	80	s.			1		2		calm					fair.
Michigan, Erie, Pennsylvania	30.09	764.3	26	— 3.3	88	ne.			1		10							cloudy.
Minnesota, New York, N. Y.	30.38	771.6	17	— 8.3	100	ne.	4	1.8			10							light snow.
Monocacy, Nagasaki, Japan	30.33	770.4	44	6.7	67	nnw.			2		5		nw.					fair.
New Hampshire, Newport, R. I.	30.42	772.7	18	— 7.8	100	nne.			4		10		calm			mod.	nw.	snowing
Nipsic, Lisbon, Portugal	30.54	775.7	57	13.9	74	ene.			1		5							foggy.
Onward, Callao, Peru*†	30.05	763.3	65	18.3	94	sse.			2		10		n.					misty.
Palos, Tientsin, China*	30.43	772.9	21	— 6.1	100	ssw.			1		0							clear.
Pensacola, Panama, U. S. C*	29.83	757.7	78	25.6	86	nw.	8	3.6			5		nw.	0	0	sm'l		misty.
Powhatan, Boston, Mass	30.48	774.2	8	—13.3	55	nw.			1		10							snowing
Quinnebaug, Genoa, Italy	30.26	768.6	56	13.3	74	se.			1		2		se.					fair.
Ranger, N. 19° 56′, W. 111° 32′*	29.95	760.7	72	22.2	90	nnw.			4		10		nw.	inap.	inap.	mod.	nw.	cloudy.
Richmond, Hong-Kong, China*	30.31	769.9	57	13.9	92	nne.			2		0			0	0			clear.
Saratoga, New York, N. Y	30.43	772.9	18	— 7.8	67	n.			2		10		n.	0	0			overcast.
St. Louis, League Island, Pa	30.37	771.4	19	— 7.2	84	nnw.			2		10							snowing.
Tennessee, St. Pierre, Matinique, W. I.*	30.10	764.5	81	27.2	86	ne.	4	1.8			5		ne.	sli't	sli't	sm'l		fair.
Vandalia, St. Thomas, W. I*	30.16	766.1	75	23.9	95	ene.			2		2		calm					fair.
Wabash, Boston, Mass	30.01	762.2	4	—15.6	48	n.	9	4.0			10		nw.	0	0			cloudy.
Wachusetts, Mare Island, Cal	30.22	767.6	45	7.2	100	s.			1		1		calm					clear.
Wyandotte, Washington, D. C	30.30	769.6	30	— 1.1	100	ne.			1		10		calm	0	0			cloudy.
Yantic, N. 13° 01′, W. 63° 25′	30.18	766.6	77	25.0	86	e.			4		2					mod.	e.	clear.
Merchant Marine.																		
S. S. Grecian, Glasgow, Scotland*	29.86	758.4	46	7.8	92	ese.			4		10			4 h'r	4 h'r			overcast.
S. S. Polynesian, N. 48° 16′, W., 49° 08′*	29.37	746.0	24	— 4.4		w			8		8		snow	snow	hv'y	wnw.		snowing.
S. S. British Crown, Liverpool, Engl	29.99	761.7	44	6.7		ssw.			3		10		ssw.	19 h'r	19 h'r			raining.
S. S. Indiana, N. 51° 31′, W. 17° 09′			50	10.0	86	se.			8		10		se.	rain	rain	h'vy	se.	rainy.
S. S. Lord Clive, N. 51° 23′ W. 12° 00′						w.			5		8		w.	5 h'r	5 h'r	high	wsw.	squally.
S. S. Lord Gough, N. 39° 31′, W. 70° 58′	30.29	769.4	31	— 0.6		ene.			5		10			sleet	sleet	mod.	ene.	sleeting.
S. S. Ohio, N. 46° 58′ W. 40° 38′†	29.32	744.7	22	— 5.6	100	wsw			6		5		w.			r'gh	w.	squally.
S. S. Pennsylvania, Liverpool, Engl	30.01	762.2	45	7.2	84	ese.			4		10		ese.					rainy.
S. S. Anchoria, N. 54° 12′, W. 18° 40′†	29.67	753.6				ssw.			9		8		sw.	0	0	h'vy	sw.	threatening.
S. S. Bolivia, N. 41° 28′, W. 63° 12′	30.38	771.6	26	— 3.3	92	n.			4		10		n.	snow	snow	mod	n.	overcast.
S. S. Dorian, Castellamare, Sicily *	30.04	763.0				var.								0	0			clear.
S. S. Utopia, N. 32° 49′, W. 53° 50′†	30.37	771.4	66	18.9	94	w.			3		7		w.	3 h'r	3 h'r	mod.	w.	showery.
S. S. Ailsa, N. 38° 48′, W. 74° 02′†	30.25	768.3	36	2.2	80	e.			6		10		n.	rain	rain	r'gh	e.	overcast.
S. S. Antillas, Mayaguez, W. I†	30.25	768.3				nw.			1		1?		nw.	sq'lls	sq'lls	mod.	ne.	cloudy.?
S. S. Ambrose, Para, Brazil†	30.06	763.5	80	26.7		calm			0					7 h'r	7 h'r			fine.
S. S. Landaff City, N. 50° 10′, W. 24° 48′ *†	29.70	754.4				ssw.			9		9		sw.	rain	rain	h'vy	sw.	rainy.
S. S. Auckland, S. 54° 19′, W. 105° 24′	29.48	748.8	46	7.8	84	w.			4		9							drizzling.
S. S. City of Agra, S. 50° 00′, W. 97° 04′	29.48	748.8	42	5.6	83	w.			4		5							d. clouds.
S. S. Connewayne, N. 53° 19′, W. 14° 17′	29.77	756.1	48.6	9.2	71	sw.			6		7							misty.
S. S. Gordon Castle, N. 31° 35′, E. 31° 50′	29.92	760.0	59.5	15.3	76	s.			4-5		5							d. clouds.
St. Kilda, N. 24° 30′ W. 62° 30′	30.28	769.1	74.5	23.6	77	ene.			4		2							blue sky.
S. S. Scotia, N. 39° 10′ W. 9° 34′	30.51	774.9	56.1	13.4	75	ese.			3		5							blue sky.
S. S. Lake Huron, N. 48° 28′, W. 36° 10′*	28.94	735.1	35	1.7		wsw.			9		5		w.	snow	snow	h'vy	wsw.	
S. S. Bothnia, N. 51° 37′, W. 8° 27′	30.11	764.8	50	10.0	86	w.			4		5?		n.	sh'rs	sh'rs	sm'l		clear.?
S. S. Marathon, N. 51° 22′, W. 12° 14′	30.11	764.8	52	11.1		w.			6		4		w.	10 h'r	10 h'r	r'gh	w.	squally.
S. S. Pavonia, N. 48° 55′, W. 33° 04′	29.06	738.1	51	10.6	86	wsw.			9		10		wsw.	10 h'r	10 h'r	h'vy	wsw.	threatening.
S. S. Colima, N. 47° 15′, W. 52° 45 †.	29.40	746.7				wnw.			4		2		nw.	0	0	sm'l		clear.
S. S. Rhiwlndda, Sandy Hook, N. J						wnw.			5		5		w.	12 h'r	12 h'r	sm'l	wnw.	

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																		
S. S. Labradore, N. 41° 29′, W. 65° 00′*†	30.51	774.9	21.2	—6.0		nw.			4		5		w.	snow	snow	sm'h	nw.	fair.
S. S. Ville de Marseille, N. 48° 08′, W. 5° 10′†			55	12.8		w.			6		0			4 h'r	4 h'r	long	ww.	clear.
S. S. Abyssinia, N. 50° 40′, W. 20° 36′	29.38	746.2	54	12.2	93	sw.			9		5		sw.	0	0	h'vy	sw;w	hazy
S. S. Wyoming, N. 43° 50′, W. 54° 38′	29.98	761.5	22	— 5.6		w.			7		7		wnw.	snow	snow	h'vy	wnw.	clearing.
S. S. Bohemin, Hamburg, Germany*†	30.45	773.4				e.			3		4			0	0			fair.
S. S. Rugia, Port of Havre, France	30.27	768.8	59	15.0		w.								0	0			
S. S. Silesia, N. 40° 30′, W. 70° 03′†	30.44	773.2	27.1	— 2.7		ne.			6		10			snow	snow	3	ne.	snowing.
S. S. Vandalia, N. 49° 42′, W. 11° 13′	30.28	769.1	51.1	10.6		w.			6		5		wsw.			r'gh	w.	squally.
S. S. Wieland, N. 49° 20′, W. 24° 30′	29.73	755.1				ssw.			6		8		sw.	12 h'r	12 h'r	long	ssw.	squally.
S. S. Mentmore, N. 49° 36′, W. 36° 31′						sw.			9		8		sw.	snow	snow	high	sw.	threatening.
S. S. Archimedes, N. 1° 42′, W. 31° 15′	29.95	760.7				ese.			2		4		s.	1 h'r	1 h'r	light	con	fine.
S. S. Hevelius, Liverpool, Eng †..	30.11	764.8	46	7.8		ese			6		10		e.	12 h'r	12 h'r			raining.
S. S. Ptolemy, N. 46° 09′, W. 9° 03′	30.35	770.9	55.1	12.8	80	nw.			6	c	4 k;n			1.40	35.6	con.	sw.	d. clouds.
S. S. Sirius, S. 6° 30′, W. 34° 40′*	29.94	760.5				e.			2		1		e.	0	0	sm'h		clear.
S. S. Bulgarian, off Boston Light, Mass*	30.60	777.2				nnw.			4		10		nnw.	2 h'r	2 h'r			overcast.
S. S. Virginian, N. 51° 00′, W. 13° 44′*	30.05	763.3	51	10.6		w.			4		2		wnw.	3 h'r	3 h'r	long	w.	fair.
S. S. Colorado, N. 24° 5′ W. 83° 30′ †	30.20	767.1	71	21.7		ese.			4		2		se.	0	0	mod.	se.	clear.
S. S. Rio Grande, N. 39° 17′, W 74° 17′†	30.30	769.6	38	3.3		ene.			5		10		ne.	rain	rain	long	e.	rain & snow
S. S. San Marcos, Galveston, Texas	30.18	766.6	55	12.8		nw.			1					0	0			foggy.
S. S. Archimede, Marseilles, France †	30.19	766.8	52	11.1	60	n.			2		4		ne.	0	0			fair.
S. S. Hermod, N. 49° 02′, W. 26° 02′			50	10.0		sw.			10		9		sw.	2 h'r	2 h'r	high	sw.	threatening.
S. S. Alleghany, N. 37° 20′, W. 75° 30′ †	30.28	769.1	30	—1.1		ne.			4		8		e.	snow	snow			rainy.
S. S. Glenfyne, N. 17° 29′, W. 56° 28′						e.			5		8		e.	1 h'r	1 h'r	r'gh	ese.	rainy.
S. S. Dominion, N. 52° 02′, W. 6° 30′*†	30.07	763.8	52	11.1		sw.			2		8		sw.	3 h'r	3 h'r	light	wsw.	cloudy.
S. S. Chalmette, N. 28° 00′, W. 87° 45′†	30.19	766.8	75	23.9		ssw.			4		2			0	0	sm'h		clear.
S. S. Lone Star, N. 32° 53′, W. 76° 00′†	30.12	765.0	03	17.2		nnw.			4					12 h'r	12 h'r	r'gh	e,se	dense fog.
S. S. Denmark, New York, N. Y †	30.37	771.4	20	—0.7		ne.			4		10		ne.	snow	snow			overcast.
S. S. England, N. 46° 38′, W. 37° 05′	29.25	742 9				w.			7		8		w.	snow	snow	h'vy	w.	squally.
S. S. Erin, Liverpool, Eng *†	30.16	766.1	42	5.6		nne.			6		7		ne.	8 h'r	8 h'r			
S. S. Greece, N. 49° 45′, W. 9° 32′	30.10	764.5	50	10.0		wsw.			6		7?		wsw.	5 h'r	5 h'r	h'vy	w.	clear?
S. S. Helvetia, New York, N. Y.	30.34	770.6	19	— 7.2		nne.			5		10		n.	snow	snow			snowing.
S. S. Santiago, N. 28° 59′ W. 73° 25′	30.26	768 6	71	21.7	90	ssw.			1		9		ssw.	3 h'r	3 h'r	sm'h		light rain.
S. S. City of Alexandria, Vera Cruz, Mexico†	30.07	763.8	73	22.8	95	wnw.			3		8		ne.	2 h'r	2 h'r	small	ene.	showery.
S. S. City of Merida, N. 38° 30′, W. 74° 18′†	30.29	769.4				ene.			3		10		ene.	snow	snow	mod.	ne.	cloudy.
S. S. City of Washington, N. 19° 53′, W. 90° 49′ †.	30.08	764.0	75	23.9		e.			2		fg.			0	0	sm'h		fine.
S. S. Alps, N. 25° 20′, W. 74° 10′	30.34	770.6	81	27.2		ese.			1							sm'h		clear.
S. S. Alpin, N. 34° 10′, W. 76° 45′	30.34	770.6	40	4.4		nw.			4								se.	foggy.
S. S. Braunschweig, S. 30° 29′, W. 47° 53′	29.99	761.7	77.0	25.0	86	nnw.			4					0	0	light	nnw.	clear.
S. S. Neckar, N. 50° 28′, W. 20° 00′	29.98	761.5	53.0	11.7	80	sw.			6		2		sw.	8 h'r	8 h'r	high	w.	fair.
S. S. Salier, Brouwershaven, Netherlands						se.			5		10		se.	0	0			cloudy.
S. S. Strassburg, S. 23° 00′, W. 41° 07′	30.14	765.5	78.0	25.6	91	ne.			3		3		ne.	0	0	sm'h	ne.	clear.
S. S. Werra, N. 50° 29′, W. 23° 15′	29.74	755.3	51.8	11.0		sw.			7		10		ssw.	snow	snow	high	sw.	squally.
S. S. Belgic, N. 35° 10′, W. 161° 29′ *†	30.06	763.5	64	17.8	73	w.			3		10		sw.	1 h'r	1 h'r	mod.	w.	cloudy.
S. S. Coptic, N. 24° 15′, E. 118° 39′	30.39	771.0	52.5	11.4	79	ne.			0		0			0	0	r'gh	ne.	blue sky.
S. S. Gaelic, N. 34° 55′, E. 165° 49′	29.98	761.5	55	12.8	93	w.			4		5		w.	0	0		w.	d. clouds.
S. S. Oceanic, N. 47° 00′, E. 174° 07′ *	29.44	747.8	38	3.3	54	wsw.			6		0		wsw.			high	wnw.	snowing.
S. S. City of Augusta, Savannah, Ga†	30.14	765.5				nne.			3		5?			0	0			cloudy.?
S. S. Mississippi, Seattle, Wash. Ter*†	29.80	756.9	44	6.7		s.			4		10		sw.					light rain.
S. S. Willamette, N. 42° 40′, W. 124° 52′ †..	30.21	767.3	52	11.1	93	s.			4		5		s.	0.07	1.8	mod.	w.	foggy.
S. S. Columbia, N. 45° 51′, W. 124° 11′†	30.02	762.5	50.5	10.3	93	wsw.			4		10		w.			mod.	sw.	drizzling.
S. S. Oregon, San Francisco, Cal			49	9.4	85	calm			0		0							clear.
S. S. Ancon, San Francisco, Cal†	30.24	768.1	48	8.9	92	nw.			1		10		ne.					hazy.
S. S. City of Chester, Eureka, Cal *†	30.22	767.6	38	3.3	63	calm			0		10							cloudy.
S. S. G. W. Elder, Seattle, Wash. Ter †	29.96	761.0	44	6.7	?	se.			4		8		se.	10 h'r	10 h'r			cloudy.
S. S. Orizaba, N. 37° 12′, W. 119° 40′*†	30.24	768.1	53	11.7	61	calm			0		0			0	0	sm'h		clear.
S. S. State of California, Portland, Oregon†	29.97	761.2	45	7.2	92	sse.			3		10							raining.
S. S. Victoria, Oakland, Cal*†	30.22	767.6	50	10.0		nne.			3		2		nnw.					fair.
S. S. City of New York, S. 24° 04′, W. 175° 39′†	29.69	754.1	78	25.6	82	calm			0					1 h'r	1 h'r	h'vy	e.	clear.
S. S. City of Sydney, S. 22° 51′, W. 174° 51′†	29.73	755.1	70	24.4	73	wsw.			3		5		sw.	0	0	mod.	sw.	fair.
S. S. City of Tokei, Hong Kong, China†	30.38	771.0	56	13.3	75	n.			3		2		n.	0	0	small	n.	clear.
S. S. Colima, Acajutla, San Salvador, C. A †	29.95	760.7	73	22.8	100	ne.			4		2		calm	0	0	sm'h	s.	clear.
S. S. Grenada, N. 22° 54′, W. 109° 33′†	30.02	762.5	68	20.0	84	n.			3		8?		ne.	2 h'r	2 h'r	sm'h	ne.	clear?
S. S. San José, N. 8° 54′, W. 79° 30′*†	29.81	757.2				ne.			2	2 c	0	nne.		0	0	long	sw.	
S. S. Zealandia, Sydney, N. S. W*..	30.05	763.3	68	20.0	74	sw.			4		8		sw.					showery.
S. S. Muriel, N. 23° 00′, W. 65° 20′ *	30.19	766.8	77	25.0		e.			4		0			sh'rs	sh'rs	mod.	e.	clear.
S. S. Valencia, N. 10° 51′, W. 68° 15′ †	30.08	764.0	80	20.7	87	ene.			6		7		ene.	0	0	mod.	ene.	cloudy.
S. S. Belgenland, mouth of Scheldt River, Germany†	30.41	772.4	45	7.2	70	se.			3		2		se.	1 h'r	1 h'r	sm'h		
S. S. Nederland, N. 41° 43′, W. 63° 31′†	30.43	772.9	28	— 3.3		nw.			6		10		nw.	snow	snow	mod.	nw.	cloudy.
S. S. Pennland, Antwerp, Belgium	30.30	769.6	43	6.1	75	ne.			2		4			0	0			hazy.
S. S. Rhynland, N. 50° 00′, W. 27° 00′	29.27	743.4	49	9.4	93	wsw.			4		9		wsw.	20 h'r	20h'r	con.	w.	
S. S. Switzerland, N. 48° 27′ W. 37° 56′†	29.06	738.1				wsw.			6		10		wsw.	snow	snow	h'vy	wsw.	squally.
S. S. Waesland, Jersey City, N. J	30.43	772.9	21	— 6.1		ne.			5		10		ne.	0.04	1.0			snowing.
S. S. Maas, N. 40° 50′, W. 64° 19	30.28	769.1	39.2	4.0		nne.			4		10			snow	snow	3	n.	foggy.
S. S. Schiedam, N. 49° 26′ W. 20° 26′	29.93	760.2	53.1	11.7	72	sw.			8		5		sw.	4 h'r	4 h'r	h'vy	sw.	hazy.
S. S. W. A. Scholten, N. 46° 44′, W. 41° 48′	29.43	747.5	34.2	1.2	100	wsw.			9		6		w.	snow	snow	high	w.	stormy.
S. S. State of Florida, Greenock, Scotland	29.78	750.4	48	8.9		se.			4		9		se.	8 h'r	8 h'r			cloudy.
S. S. State of Georgia, N. 53° 30′, W. 24° 14′†	29.28	743.7	47	8.3		s.			9–10		10		s.	0	0	h'vy	var.	
S. S. State of Indiana, N. 40° 29′, W. 68° 43′†	30.40	772.1	30	—1.1		ene.			3		8		e;sw.	10 h'r	10 h'r	sm'h		light snow.
S. S. Baltic, N. 49° 01′, W. 30° 32′*	29.23	742.4	49	9.4	93	sw.			7		10			10 h'r	10 h'r	h'vy	sw.w	raining.
S. S. Romano, N. 49° 16′, W. 18° 40′ *†	30.02	762.5	54	12.2		wsw.			6		6		wsw.	5 h'r	5 h'r	r'gh	wsw.	fair.
S. S. Salerno, N. 47° 12′, W. 41° 47′ ..	29.35	745.5	19	— 7.2		w.			9		10		w.	3 h'r	3 h'r	h'vy	w.	snowing.
S. S. Catherine Whiting, Providence, R. I†	30.45	773.4				ne.			1					snow	snow			
S. S. Norman, N. 39° 59′, W. 75° 08′ †	30.51	774.9				ne.			5				ne.	7 h'r	7 h'r			heavy snow
S. S. Saxon, Boston, Mass †	30.33	770.4	15	— 9.4		nne.			2		10							light snow.
MISCELLANEOUS																		
Schr. Abbie H. Gheen, Jacksonville, Fla†	30.27	769.8	62	16.7		calm			0		0			0	0			foggy.
Bk. Adelaide, N. 8° 01′, W. 31° 20′*†	30.00	763.5	78	25.6		ne.			5		2		e.	0	0	mod.	e.	hazy.
Bk. Alpha, N. 10° 40′, W. 46° 14′ *†	30.02	762.5	80	30.0		e.			4		1		e.	0	0	sm'h		clear.
Schr. Anna A. Holton, N. 22° 05′, W. 96° 46′†	30.09	764.3	77	25.0		nw.			3		10			2 h'r	2 h'r	mod.	n.	cloudy.
Bk. Anna Thormann, S. 33° 10′, E. 15° 41′*	30.24	768.1	64.9	18.3	71	s.			6		3 k		s.	3 h'r	3 h'r	long	ssw.	fair.
S. S. Antonio Lopez, Cadiz, Spain	30.38	771.0	59	15.0	70	nw.			3		2			0	0			hazy.
Bk. Aquidneck, N. 26° 17′, W. 66° 10′*†	30.40	772.1	80	26.7		ne.			3		1		ne.	0	0			clear.
Bgt. Arthur, N. 1° 26′, W. 15° 34′*†	30.02	762.5				ne.			3		5		se.	0	0	mod.	var.	fair.
Bk. B. F. Watson, N. 17° 51′, E. 131° 05′ †	29.99	761.7	82	27.8		ese.			3		4			4 h'r	4 h'r	r'gh	ne.	fair.
Bg. Belle of the Bay, Galveston, Texas†	30.23	767.8				n.			3					light	light			drizzling.
Bk. Bremen, N. 56° 22′, W. 2° 15′*	30.12	765.0				ssw.			6		10		wsw.	rain	rain	mod.	sw.	raining.
S. S. Burswell, N. 39° 01′, W. 53° 30′*†	30.02	762.5	52	11.1		nw.			7		10		nw.	7 h'r	7 h'r	high	nw.	squally.
Bk. Champion, Philadelphia, Pa			39	3.9		nne.			4		10		ne.	snow	snow			fair.
Bk. Commerce, N. 39° 14′, W. 50° 00′†	29.97	761.2	50	10.0		wnw.			7		5		wnw.	4 h'r	4 h'r	long	wnw.	fair.
Bk. E. D. Bigelow, N. 47° 38′, W. 8° 30′ *†	30.20	767.1				wsw.			4		2		wsw.	0	0	long	w.	fair
Schr. Edith R. Seward, Wilmington, N. C†	30.17	766.3	49	9.4		nnw.			1		7			6 h'r	6 h'r			rainy.
Bk. Edmund Phinney, N. 7° 58′, W. 32° 08′†	30.03	762.7	79	26.1		ese.			5		2		ese.	0	0	r'gh	ese.	hazy.
S. S. E. J. Spicer, Liverpool, Eng	30.00	763 5	50	10.0	93	sse.			5		5		sse.	4 h'r	4 h'r			hazy.
Bk. E. L. Pettingill, S. 23° 08′, W. 120° 50′ *†	30.20	767.1	79	26.1		n.			2		2		nne.	0	0	sm'h		

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Bk. Essex, Majambo, Madagascar*†	29.93	760.2	89	31.7		nw.			4					0	0			fine.
Schr. F. E. McDonald, N. 31° 31′, W. 80° 23′†	30.21	767.3	59	15.0		n.			1		10			0	0	mod.	n.	foggy.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†.	30.25	768.3	30	—1.1		ene.			2		10							cloudy.
S. S. Foscolia, N. 50° 01′, W. 3° 58′						w.			4		5		nw.	0	0	cross		fair.
Bk. Freya, Matanzas, Cuba, W. I.			72	22.2		se.			1		1		ne.	0	0			clear.
Bg. George, Ponce, Porto Rico, W. I.*†	30.21	767.3				ne.			1		10			shr's	shr's	mod.		cloudy.
S. George Stetson, N. 19° —′, W. 34° —′ *†	30.19	766.8	72	22.2	95	var.			4		5?		e.	0	0	long	ne.	cloudy?
Bk. Gronsvaer, Auckland, N. Z.	29.89	759.2	69.2	20.7		w.			4		6		w.	0	0			squally.
Bk Hattie G. McFarland, N. 7° 00′, W. 57° 40′ *†	30.12	765.0	78	25.6		e.			6		4		e.	3 h'r	3 h'r	sharp	e.	squally.
Schr. Hattie Weston, N. 23° 20′, W. 64° 25′*†	30.30	769.6	61	16.1		wsw.			4		10		wnw.	1 h'r	1 h'r	mod.	w.	rainy.
S. Hedwig, N. 41° 19′, W. 46° 45′	29.82	757.4	39.6	4.2		nw.			8		9		nw.	rain	rain	7	nw.	stormy.
Schr. Isabel Alberto, Jersey City, N. J.†	30.40	772.1				nne.			4		10		ne.	snow	snow			snowing
Schr. John L. Thomas, N. 30° 10′, W. 680. 28′*†	30.36	771.1				sw.			2		2		s.	0	0	light	ene.	fine.
Bkt. Josephine, N. 2° 26′, W. 25° 40′†	29.97	761.2	84	28.9	75	se.			4		2		se.	1 h'r	1 h'r	sm'h		fair
S. S. J. W. Wilson, Port Eads, La*†	30.12	765.0	67	19.4		s.			1		fg.			0	0			foggy.
Light House Tender Laurel, Key West, Fla†	30.18	766.6	74	23.3		e.			1		3		ese.	0	0			clear
Bg. Lilian, N 15° 03′, W. 57° 16′†	30.21	767.3	80	26.7		e.			3		8		ese.	1½h'r	1½h'r	r'gh	var.	showery.
Bk. Louise Adelaide, Vera Cruz, Mexico.						calm			0		10							misty.
Bg. L. & W. Armstrong, N. 28° 09′, W. 69° 56′*†	30.34	770.6				se.			1		3		e.	½ h'r	½h'r	mod.	e.	clearing.
S. S. Malabar, N. 38° 57′, E. 9° 49′*†	30.22	767.6				calm			0		5?		n.	0	0	sm'h		clear?
Schr. Minnie A. Bonsall, Jacksonville, Fla †.	30.26	768.6	66	18.9		nw.			1									foggy.
S. Minnie N. Gerow, N. 33° 40′, W. 70° 10′*†	30.18	766.6				sse.			3		10		sw.			sm'h	se.	drizzling.
S. M. P. Grace, S. 47° 09′, W. 44° 00′*.	29.22	742.2	52	11.1		var.			4–7		6		wnw.	sli't	sli't	cross	var.	
Bg. Myrtle, N. 29° 47′, W. 60° 00′						wnw.			1		0			0	0	sm'h		fair.
Bkt. Norena, N. 26° 40′, W. 77° 10′*†.	30.34	770.6				se.			2		2		sse.	0	0	sm'h		fine.
Bg. O. C. Clary, Miragoane, Hayti, W. I.*†.	30.06	763 5	82	27.8	91	sse.			2		0							
Bk. Ottawa, N. 36° 41′, W. 1° 26′*.	30.36	771.1	61	16.1		wsw.			1		0			0	0	sm'h		clear.
S. Paramita, San Francisco, Cal.			50	10.0		calm			0					0	0			clear.
Schr. Pearl Nelson, Hampton Roads, Va*†	30.27	768.8	38	3.3		nne.			6		10		ne.	snow	snow			foggy.
S. S. Raleigh, Kingston, Jamaica, W. I*†.	30.01	762.2	80	26.7		se.			1		10		se.	0	0	sm'h		fine.
Bk. Reindeer, N. 30° 15′, W. 63° 50′*.	30.34	770.6				se.			4		2		sswv.	0	0	mod.	ssw.	squally.
S. Rudolph, Weser River, Germany*.	30.38	771.6	29.3	—1.5		ene.			5		8		se.	0	0			hazy.
Schr. S. B. Hubbard, Jacksonville, Fla *†.	30.30	769.6	68	20.0		calm			0		fg.			0	0			foggy
Bk. Scud, N 34° 50′, W. 64° 30′*†.	30.33	770.4	72	22.2		e.			2		10		e.	light	light	sm'h		
Bk. Southern Belle, N. 36° 20′, W. 22° 40′*†.	30.16	766.1	60	15.6		se.			3		8			1 h'r	1 h'r	long	nw.	cloudy.
S. Sovereinn of the Seas, N. 11° 48′, W. 117° 47′*†.	30.01	762.2	79	26.1	91	ne.			4		5?		var.	3 h'r	3 h'r	cross	var.	overcast?
Bk. Sunbeam, N. 40° 41′, W. 19° 21′*†.	30.35	770.9	60	15.6	88	se.			3		10		se.	6 h'r	6 h'r	mod.	w.	cloudy.
S. Titan, N 35° 36′, W. 56° 19′*†.	30.22	767.6	59	15.0	88	nw.			3		10		nw.	4 h'r	4 h'r	sm'h	nnw.	cloudy.
Bk. Vincenzo Accame, N. 35° 31′, W. 74° 30′			68	20.0		nw.			4		8		nw.	9 h'r	9 h'r	r'gh		
Bk. Wandering Jew, Montevideo, Urugnay†.	29.70	754.4	79	26.1		n.			3		4		n.	0	0			clear.
Schr. Wm. Wiler St. John's River, Fla†.	30.28	769.1				calm			5		fg			0	0			dense fog.
Bk. Xenia, N. 36° 52′ W. 64° 16′*†.	30.28	769.1	60	15.6		nne.			0		10		nne.	3 h'r	3 h'r	cross	var.	cloudy.
									3									

International Chart I. January 5, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B.Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 6, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.44	773.2	61.9	16.6	85	n.	.....	.....	4	.....	2	.....	.....	0	0	fair	Malaterre.
Algiers	.....	.....	30.37	771.4	54.7	12.6	93	sw.	.....	.....	2	.....	10	.....	.....	0.031	0.8	covered	Thève.
La Calle	.....	.....	30.27	768.9	55.0	12.8	89	w.	.....	.....	2	.....	6	.....	.....	0.217	5.5	cloudy	Fonfréde.
Tunis	.....	.....	30.25	768.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.41	772.5	60.4	15.8	61	e.	.....	.....	1	.....	2	.....	.....	0	0	fair	Pérès.
Tebessa	.....	.....	30.33	770.4	45.0	7.2	77	w.	.....	.....	1	.....	4	.....	.....	0.079	2.0	cloudy	Dognon.
Geriville	.....	.....	.....	.....	50.0	10.0	79	nw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Lonchamp.
Laghouat	.....	.....	30.43	772.8	55.4	13.0	35	sw.	.....	.....	1	.....	2	.....	.....	0	0	fair	Abraham.
Biskra	.....	.....	30.39	771.8	63.7	17.6	32	nw.	.....	.....	5	.....	4	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.77	756.1	29.86	758.4	78.0	25.6	42	ne.	9	4.0	.....	.....	1	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	30.01	762.2	30.61	777.4	26.6	— 3.0	79	ne.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	.....	.....	.....	.....	14.7	— 9.6	94	ne.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.69	754.0	30.66	778.8	16.5	— 8.6	53	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.26	743.3	30.61	777.6	26.1	— 3.3	50	se.	.....	.....	2	.....	3	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.95	735.4	30.52	775.3	18.1	— 7.7	95	ne.	.....	.....	4	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	29.08	738.5	30.52	775.3	24.4	— 4.2	81	ene.	.....	.....	2	.....	10	.....	.....	0	0	covered	The Staff.
Lemberg	29.48	748.8	30.57	776.5	15.8	— 9.0	66	nw.	.....	.....	2	.....	9	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.94	684.3	30.61	777.4	18.5	— 7.5	81	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.25	768.4	30.37	771.4	40.1	4.5	43	ene.	.....	.....	5	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	30.07	763.8	30.54	775.6	17.6	— 8.0	88	n.	.....	.....	2	.....	.....	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	30.30	769.5	30.60	777.3	22.6	— 5.2	61	n.	.....	.....	1	.....	3	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.29	769.3	30.39	771.8	35.6	2.0	85	ne.	.....	.....	5	.....	0	.....	.....	0	0	.....	Royal Academy
Vienna	29.88	758.9	30.66	778.8	21.6	— 5.8	60	n.	.....	.....	1	.....	1	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.22	767.6	30.32	770.1	40.0	4.4	83	sw.	2	0.9	.....	.....	7	.....	.....	0	0	misty	W. Boswell
Armagh, Observatory	30.15	765.8	30.39	771.9	41.8	5.4	83	s.	13	5.8	.....	.....	5	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.44	773.2	44.0	6.7	81	s.	5	2.2	.....	0	4	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.89	759.2	30.44	773.2	43.2	6.2	92	nne.	.....	.....	.....	.....	9	.....	.....	.....	.....	overcast	Thomas Mackereth.
Bradford, Yorkshire	30.02	762.5	30.42	772.7	40.5	4.7	92	nw.	.....	.....	1	.....	3	.....	.....	0.01	0.3	d. clouds	McLandsborough&Preston
Bridgetown, Barbadoes	30.03	762.7	30.06	763.5	80.0	26.7	69	ne.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H C.
Cardington	.....	.....	.....	.....	43.2	6.2	90	n.	.....	.....	0.4	.....	2	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E	30.27	768.8	30.40	772.1	41.5	5.3	90	n.	.....	.....	1	.....	10	.....	.....	blank	blank	gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	30.20	768.6	30.50	774.7	48.0	8.9	85	wnw.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	The Staff.
Fort Napier, Natal	27.74	704.6	29.90	761.0	71.4	21.9	69	s.	.....	.....	2	.....	9	.....	.....	.....	.....	overcast	Corpl. F. Milner, A. H. C.
Galway	30.20	768.6	30.30	769.6	44	6.7	91	sw.	.....	.....	2	.....	3	.....	.....	0.02	0.5	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	30.29	769.4	30 34	770.6	58.2	14.6	92	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Sgt. J. Norris, A. H C.
Glasgow, Observatory	30.15	765.8	30.36	771.1	43.0	6.1	90	wsw.	.....	.....	4	.....	10 k	.....	.....	.....	.....	gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.24	768.1	30.42	772.7	44.1	6.7	81	n.	.....	.....	1	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	30.16	766.1	30.40	773.7	48.0	8.9	72	nnw.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S
Kew, Observatory	30.40	772.1	30.44	773.2	43.8	6.6	79	nnw.	10	4.5	.....	.....	4	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	30.16	766.1	30.43	772.9	43.0	6.1	83	nw.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	J. C. Smith.
Malta, Mediterranean	30.14	765.5	30.21	767.3	59.0	15.0	60	se.	.....	.....	2	.....	6	.....	.....	0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.16	766.1	30.21	767.3	73.5	23.1	74	se.	.....	.....	1	.....	9	.....	.....	blank	blank	overcast	C. S. Duncombe
Oscott, St. Mary's College	29.90	759.4	30.44	773.2	44.0	6.7	82	nw.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds	Rev. Jas. W. Browne,
Oxford, Radcliffe Obs'y	30.21	767.3	30.44	773.2	42.9	6.1	82	nnw.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	The Staff.
Plymouth	30.40	772.1	30.48	774.2	44.0	6.7	95	nw.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.11	764.8	30.21	767.3	45.1	7.3	92	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L.L D.
Scutari Cemetery, Turkey	30.21	767.3	30.28	769.1	35.8	2.1	70	ne.	.....	.....	2	.....	8	.....	.....	.....	.....	snowy	W. H. Lyne.
Sheffield	30.16	766.1	30.45	773.4	45.0	7.2	74	nw.	.....	.....	1	.....	10	.....	.....	0	0	overcast	W. F. Cooper.
Silloth Rectory	30.38	771.6	30.41	772.4	39.3	4.1	95	e.	.....	.....	1	.....	4	.....	.....	0	0	misty	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.46	773.7	39.4	4.1	97	wsw.	0	0	.....	.....	10	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Stratfield Turgiss	30.22	767.6	30.45	773.4	42.8	6.0	85	n.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.45	773.4	30.50	774.7	54	12 2	60	w.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.30	769.6	30.32	770.1	49.9	9.9	74	sse.	29	13.0	.....	.....	6	.....	.....	.....	.....	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.19	766.8	30.24	768.1	—14	—25.6	100	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. J. Cundall, C E
Chatham, N. B*	30.24	768.1	30.31	769.9	—24	—31.1	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Cornwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dalhousie	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Father Point, Quebec*	30.33	770.4	30.35	770.9	—19	—28.3	100	nw.	15	6.7	.....	0	2 s	.....	.....	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	28.90	736.3	29.97	761.2	—26	—32.2	100	ne.	9	4.0	.....	0	0	.....	.....	0.01	0.3	clear	James Stewart.
Halifax, N. S*	30.15	765.8	30.29	769.4	— 7	—21.7	100	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. Allison.
Kingston, Ontario*	29.89	759.2	30.28	769.1	—13	—25.0	95	ne.	13	5.8	.....	10 cs	0	nw.	.....	0.07	1.8	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	30.15	765.8	30.40	772.1	— 20	—28.9	100	n.	2	0.9	.....	.....	10 n	.....	.....	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.45	748.0	30.24	768.1	— 8	—22.2	58	e.	5	2.2	.....	0	2 ks	.....	e.	0.102	2.6	fair	Rev. R. Mosley.
Port Dover, Ontario	29.37	746.0	30.13	765.3	9	—12.8	100	ne.	7	3.1	.....	.....	10 c	.....	.....	inap.	inap.	cloudy	H. Morgan.
Port Stanley, Ontario	29.44	747 8	30.15	765.8	10	—12.2	100	ne.	6	2.7	.....	.....	10 n	.....	ne.	0	0	cloudy	M. Payne.
Quebec, Quebec*	30.07	763.8	30.46	773.7	—23	30.6	100	se.	.....	.....	1	0	hz.	.....	.....	0	0	hazy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.82	757.4	30.37	771.4	—24	—31.1	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.34	745.2	30.13	765.3	5	—15.0	96	se.	11	4.9	.....	.....	10 ks	.....	.....	0	0	cloudy	
St. Andrews, N. B	30.32	770 1	30.38	771.6	—14	—25.6	100	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	
Sydney, C. B*	30.00	762.0	30.07	763.8	7	—13.9	87	w.	16	7.2	.....	0	8 ks	.....	nw.	0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.77	750.1	30.19	766.8	4	—15.6	83	ne.	12	5.4	.....	.....	10 ks	.....	w.	0.02	0.5	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.27	768.8	30.34	770.6	7	—13.9	58	ne.	1	0.4	.....	.....	10 s	.....	ne.	0.05	1.3	light snow	Lt. F. E. Wilmot, R N.
Cape Colony.																			
Cape St. Francis Lt. House	30.12	765.0	30.15	765.8	70.0	21.1	73	ene.	5.4	2.4	.....	0	4 k	.....	.....	0.050	1.3	light haze	John Duthie.
Springbok Fontein	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.15	638.7	.....	.....	14.9	— 9.5	.....	ene.	.....	.....	1	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.18	766.5	30.29	769.3	31.8	— 0.1	44	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Mission, S. J.
Zi-Ka-Wei, near Shanghai	30.39	772.0	30.42	772.6	27.5	— 2.5	87	se.	6.0	2.7	.....	0	0	.....	.....	0	0	clear	M. Marc Dechevrens .S.J
Danish.																			
Copenhagen	30.56	776.2	30.61	777.4	28.2	— 2.1	73	s.	13	6	.....	.....	9	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	30.50	774.8	30.52	775.3	28.2	— 2.1	75	sse.	.....	.....	4	.....	5	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	28.66	727.9	28.70	729.0	20.3	— 6.5	95	n.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	28.54	724.9	28.56	725.4	23.5	— 4.7	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	28.95	735.2	28.99	736.4	7.9	—13.4	.....	calm	.....	.....	0	.....	5	.....	.....	.....	.....	foggy	
Stykkisholm, Iceland	29.02	737.1	29.06	738 2	41.0	5.0	80	s.	.....	.....	7	.....	10	.....	.....	.....	.....	raining	A. O. Thorlacius.
Thorshavn	29.89	759.3	29.93	760.2	49.3	9.6	80	sw.	30	13	.....	.....	10	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	30.43	772 9	30.52	775.2	28.6	— 1.9	88	sse.	.....	.....	2	.....	3	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	28.97	735 9	29.02	737.1	13.3	—10.4	.....	e.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	29.87	758.6	30.54	775.6	50.0	10	95	calm	.....	.....	0	.....	k	.....	.....	0	0	.....	M. Labroue, Director.
Alençon, Normal School	29.87	758.8	30.43	772.8	43.5	6.4	91	n.	.....	.....	1	.....	kn	s.	s.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	30.04	763.1	30.31	769.9	41.9	5.5	94	.....	.....	.....	1	.....	hz	.....	n.	0.118	3.0	hazy	M. Fénéon, Command't.
Avignon, Normal School	30.22	767.5	30.30	769.5	51.8	11	59	n.	.....	.....	2	.....	5	.....	n.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.78	756.4	30.35	771.0	43.9	6 6	85	nne.	.....	.....	1	.....	10	.....	nnw.	0.327	8.3	covered	M. Saillard, Director.
Beauvais, Normal School	30.11	764.7	30.38	771.7	44.8	7.1	83	nw.	.....	.....	1	.....	5	.....	n.	0.224	5.7	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.38	746.3	30.33	770.4	36.7	2.6	96	nne.	.....	.....	1	.....	10 n	.....	ne.	0.217	5.5	rain & snow	M. Gobin, Director.
Bordeaux, Observatory	30.21	767.2	30.47	774.0	48.9	9.4	73	nnw.	.....	.....	1	.....	o	.....	.....	0.102	2.6	clear	M. Rayet, Director.
Bourges, Normal School	29.85	758.3	30.43	772.8	41.9	5.5	100	n.	.....	.....	1	.....	k	.....	n.	0.098	2.5	.....	M. Malet, Director.
Brest, Naval Observatory	30.27	768.8	30.50	774.8	51.4	10.8	90	calm	.....	.....	0	.....	1	.....	.....	0.307	7.8	.....	M. de Kermarec, Dir.
Caen, Normal School	30.31	769.9	30.39	771.9	45.3	7.4	69	se.	.....	.....	1	.....	o	.....	.....	0.08	2.	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.02	762.4	30.35	770.8	42.6	5.9	88	sw.	.....	.....	1	.....	10	.....	.....	0.413	10.5	covered	M. Jadot, Director.
Charleville, Normal School	29.91	759.8	30.32	770.0	39.2	4.0	83	sse.	.....	.....	1	.....	10	.....	.....	0.12	3.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.00	736.7	30.40	772.2	44.1	6.7	71	nw.	.....	.....	1	.....	8	.....	nw.	0.024	0.6	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.47	748.4	30.35	770.8	45.0	7.2	80	nw.	.....	.....	2	.....	fg	.....	nw.	0.083	2.1	foggy	M. de Villemontée, Dir.
Commercy, Normal School	29.45	748.0	30.33	770.3	39.6	4.2	97	s.	.....	.....	1	.....	10 n	s.	s.	0.138	3.5	foggy	Dr. Coulet, Director.
Gap, Normal School	27.64	702.0	30.20	768.5	39.2	4	52	.....	.....	.....	.....	.....	3 ck	o	w.	.....	.....	.....	M. Jeangirard, Director.
Gréasque, du Rhone	29.12	739.7	30.28	769.2	46.2	7.9	61	n.	.....	.....	2	.....	2	.....	sw.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.56	750.8	30.37	771.4	33.8	1.0	96	ese.	.....	.....	1	.....	10 n	.....	.....	.....	.....	snowing	M. Ablard, Director.
Guéret	28.84	732.6	30.50	774.6	39.7	4.3	83	nw.	.....	.....	2	o	8 n	.....	nw.	0.154	3.9	very cloudy	M. Delorme, Dir.
Lamballe, Normal School	30.22	767 5	30.49	774.5	47.5	8.6	83	w.	.....	.....	2	.....	1	.....	w.	0.094	2.4	clear	M. Ollitrault, Director.
Lescar, Normal School	29 87	758.8	30.45	773.4	51.8	11.0	77	w.	.....	.....	1	o	5 k	.....	.....	0.130	3.2	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.41	772.5	30.52	775.1	52.2	11.2	65	n.	.....	.....	1	.....	o	.....	.....	o	o	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.26	743.2	30.35	771.0	43.0	6.1	72	wnw.	.....	.....	2	ck	10 n	sso.	wnw.	0.035	0.9	covered	M. André, Director.
Mans, Normal School	30.15	765.7	30.47	773.9	44.4	6.9	81	n.	.....	.....	4	.....	5	.....	n.	0	0	cloudy	M. Piboën, Director.
Marseille, Observatory	30.00	762.0	30.28	769.0	50.5	10.3	62	nnw.	.....	.....	2	.....	3	.....	nnw.	0	0	.....	M. Stephan, Director.
Montlouis	25.03	635.7	29.87	758.7	38.8	3.8	33	sw.	5.6	2.5	.....	.....	0	.....	.....	0	0	.....	M. Caré for Dr. Finss.
Montpellier, Normal School	30.16	766.1	30.30	769.5	55.8	13.2	62	nw.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.46	748.2	30.27	768.8	37.4	3.0	93	ssw.	.....	.....	1	.....	n	.....	.....	0.039	1.0	.....	M. Hasse, Director.
Nantes, Observatory	30.34	770.7	30.50	774.8	48.2	9.0	76	nnw.	.....	.....	0–1	1 c	0	.....	.....	0.154	3.9	.....	M. Larocque, Director.
Perpignan, Observatory	30.25	768.3	30.36	771.2	53.4	11.9	57	n.	29.8	13.3	.....	.....	6	.....	nw.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.32	541.4	.....	.....	20.1	— 6.6	.....	ne.	.....	.....	2	.....	1	.....	w.	0	0	clear	M. Vaussenat.
Privas, Normal School	29.20	741.7	30.30	769.7	42.8	6	85	n.	.....	.....	1	.....	1	n.	n.	0	0	clear	M. Taffieu.
Puy de Dôme Obs'y, Summit	25.33	643.4	.....	.....	27.0	— 2.8	100	nw.	.....	.....	4	.....	10	.....	.....	0.354	9.0	snow & fog	M. Allnard, Director.
Rochefort, Naval Obs'y	30.40	772 2	30.43	773.0	49.6	9.8	86	nw.	.....	.....	1	.....	o	.....	.....	0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.19	766.9	30.41	772.5	46.0	7.8	13	nw.	.....	.....	1	.....	o	.....	.....	0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.17	715.4	30.37	771.3	47.1	8.4	97	se.	.....	.....	1	.....	kn	.....	se.	0.12	3.	.....	M. Seger, Director.
Rouen, Normal School	30.32	770.2	30.37	771.4	42.8	6	91	nne.	.....	.....	1	.....	10	.....	n.	0.177	4.5	raining	M. Mouillot.
Saint Lô	.....	.....	.....	.....	46.0	7.8	83	nw.	.....	.....	1	.....	5	.....	nw.	0.04	1.	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	30.21	767.4	30.38	771.6	44.4	6.9	85	nnw.	.....	.....	1	.....	10	.....	nnw.	0.232	5.9	.....	M. Renou, Director.
Toulouse, Observatory	29.75	755.7	30.48	774.3	49.1	9.5	72	nw.	.....	.....	3	.....	2	nw.	.....	0.012	0.3	slightly cl'dy	M. Baillaud, Director.
Tours	30.25	768.4	30.43	772.9	45.7	7.6	83	nnw.	.....	.....	1	.....	1	.....	nnw.	0.134	3.4	clear	M. de Tastes.
Versailles, Observatory	29.88	758.9	30.37	771.4	43.5	6.4	91	nw.	.....	.....	2	.....	.....	.....	.....	0.055	1.4	.....	Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	30.35	770.9	30.50	774.7	48.4	9.1	89	sw.	4.0	1.8	.....	o	7 k	.....	.....	0.063	1.6	.....	M. Cartier, Director.
German.																			
Ansbach	28.93	734.8	30.47	774.0	30.2	— 1.0	75	e.	.....	.....	2	.....	8	e.	.....	0	0	.....	Prof. Jnedt.
Bamberg	29.57	751.0	30.43	772.8	31.8	— 0.1	63	se.	.....	.....	1	4 cs	0	.....	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	30.45	773.5	30.01	777.5	25.5	— 3.6	55	e.	.....	.....	3	.....	7	.....	.....	0	0	.....	Dr. Lensch.
Breslau	30.15	765.7	30.69	779.5	19.2	— 7.1	64	sse.	.....	.....	2	.....	0	.....	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	29.91	759.6	30.37	771.3	40.5	4.7	80	ne.	.....	.....	1	.....	10	se.	.....	0	0	hazy	Albert Senz.
Cassel	29.65	753.2	30.37	771.3	33.1	0.6	89	se.	.....	.....	4	.....	9	se.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	30.03	762.8	30.42	772.7	34.7	1.5	85	ne.	.....	.....	1	.....	10	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.87	733.2	30.37	771.3	37.4	3.0	74	e.	.....	.....	3	.....	10	e.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	30.43	773.0	30.52	775.3	26.8	— 2.9	78	se.	.....	.....	3	.....	8	ne.	.....	0	0	.....	E. Preller.
Kiel	30.51	775.0	30.53	775.4	29.5	— 1.4	67	ese.	.....	.....	1	.....	7	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	30.14	765.5	30.53	775.5	29.3	— 1.5	70	e.	.....	.....	2	.....	1	.....	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	30.32	770.0	30.52	775.2	29.7	— 1.3	67	ese.	.....	.....	2	4 c	0	ne.	.....	0	0	.....	Weather Observatory.
Memel	30.62	777.7	30.07	778.9	20.4	— 6.4	84	ne.	.....	.....	2	5 ck	0	.....	.....	.....	.....	foggy	Issermann.
Munich	28.50	723 9	30.39	771 8	30.2	— 1.0	83	ne.	.....	.....	2	.....	8	w.	.....	c	0	.....	Central Station.
Neufahrwasser	30.66	778.8	30.08	779.2	26.4	— 3.1	80	nw.	.....	.....	2	.....	5	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.81	757.1	30.34	770.6	37.8	3.2	89	calm	.....	.....	0	.....	.....	n.	.....	0	0	foggy	Dicknether.
Stuttgart	29.39	746.5	30.33	770.3	36.9	2.7	84	ne	.....	.....	1	.....	10	.....	.....	0	0	foggy	Prof. Dr. Schoder.
Wustrow	30.61	777.5	30.03	778.1	24.4	— 4.2	95	se.	.....	.....	3	o	8 s	.....	.....	0	0	.....	Profs. Brandes & Reimar.
Greek.																			
Athens	29.85	758.3	30.26	768.5	41.5	5.3	.....	n.	.....	.....	2.0	.....	10	.....	.....	0.051	1.3	light rain	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.07	763.7	30.12	765.0	74.0	23.3	74	wsw.	17.0	7.6	.....	.....	4	ssw.	.....	0	0	d. clouds	
Deesa	29.54	750.4	30.02	762.5	80.4	26.9	30	nw.	8.0	3.6	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.96	760.9	29.99	761.8	79.0	26.1	66	nnw.	14.0	6.3	.....	.....	10	wnw.	nw.	0	0	overcast	
Poona, Yarrowda	28.12	714.1	29.97	761.2	82.0	27.8	20	ese.	9.0	4.0	.....	.....	7	w.	.....	0	0	d. clouds	
Belgaum	27.43	696.8	29.98	761.6	75.6	24.2	26	e.	6.0	2.7	.....	.....	6	s.	.....	0	0	d. clouds	
Lahore	29.35	745.5	30.13	765.3	61.6	16.4	46	calm	0	0	.....	.....	3	.....	.....	0	0	d. clouds	
Roorkee	29.16	740.8	30.10	764.5	64.8	18.2	53	calm	1.6	0.7	.....	.....	10	w.	.....	0	0	.....	
Agra	29.50	749 3	30.08	764.0	71.2	21.8	40	ne.	2.0	0.9	.....	.....	2	.....	ne.	0	0	d. clouds	
Nagpur	28.97	735 8	30.02	762.5	78.4	25.8	43	calm	1.0	0.4	.....	.....	6	sw.	.....	0	0	d. clouds	
Jubbulpore	28.67	728.2	30.05	763.3	74.8	23.8	57	calm	2.0	0.9	.....	.....	2	sw.	.....	0	0	d. clouds	
Lucknow	29.72	754.8	30.11	764.8	68.3	20.2	72	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.70	755.8	30.09	764.2	62.6	17.0	71	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.92	760 0	30.12	765.0	66.2	19.0	64	calm	1.9	0.8	.....	.....	5	.....	.....	0	0	d. clouds	
Hazaribagh	28.02	711.6	30.09	764.3	65.6	18.7	45	wnw.	4.1	1.8	.....	.....	1	.....	.....	0	0	d. clouds	
Cuttack	30.00	761.9	30.08	764.0	75.0	23.9	66	calm	0	0	.....	.....	4	.....	.....	0	0	d. clouds	
Calcutta, Alipore	30.08	764.0	30.10	764.5	66.5	19.7	69	nne.	0.5	0.2	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	30.08	764.1	30.21	767.2	68.2	20.1	67	e.	2.0	0.9	.....	.....	1	.....	.....	0	0	d. cloudy	
Chittagong	30.01	762.3	30.10	764.7	67.5	19.7	66	sw.	3.1	1.4	.....	.....	2	.....	.....	0	0	blue sky	
Sibsagar	29.81	757.1	30.16	766.1	61.9	16.6	85	ne.	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar	29.85	758.1	29.87	758.7	86.7	30.4	55	ne.	10.7	4.8	.....	.....	0	.....	.....	0	0	blue sky	
Jeypore	28.58	725 9	30.06	763.4	71.2	21.8	42	w.	0.1	0.04	.....	.....	2	w.	.....	0	0	d. clouds	
Bellary	28.52	724.4	.....	.....	78.2	25.7	37	e.	8	3.6	.....	2 c	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.75	755.6	.....	.....	80.4	26.9	53	e.	1	0.4	.....	.....	6	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.																			
Udine	30.01	762.2	30.44	773.1	35.4	1.9	55	e.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.86	758.5	30.41	772.3	38.1	3.4	86	ne.	3.8	1.7	.....	.....	10	e.	.....	0.012	0.3	.....	Prof. Schiapparelli.
Padua	30.31	769.8	30.42	772.7	36.1	2.3	59	nne.	10.5	4.7	.....	.....	10	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.47	748.4	30.41	772.4	34.3	1.3	96	nw.	3.8	1.7	.....	.....	10	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	30.10	764.4	30.29	769.4	40.1	4.5	60	ne.	13.6	6.1	.....	.....	10	sw.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.39	721.2	30.39	772.0	27.5	— 2.5	98	w.	.....	.....	4	.....	10	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.29	769.4	30.34	770.7	38.1	3.4	80	nw.	2.5	1.1	.....	.....	10	n.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	30.05	763.2	30.31	769.9	40.6	4.8	77	ne.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	30.11	764.8	30.20	767.0	47.8	8.8	65	ne.	2.5	1.1	.....	.....	9	.....	.....	0	0	.....	Prof. P. Monte.
Rome	30.08	764.1	30.26	768.6	48.2	9.0	64	n.	3.1	1.4	.....	.....	9	.....	.....	0	0	.....	Prof. P. Tachini.
Lecce	30.01	762.2	30.27	768.8	45.9	7.7	55	nnw.	19.9	8.9	.....	.....	1	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.37	745.9	30.28	769.1	43.2	6.2	70	nnw.	3.8	1.7	.....	.....	4	nw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.03	762.8	30.23	767.8	56.7	13.7	73	nw.	.....	.....	2	.....	1	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.99	761.8	30.24	768.2	55.9	13.3	58	nne.	1.8	0.8	.....	.....	5	.....	.....	0	0	.....	Prof. G. Caccintore.
Syracuse	30.17	766.3	30.21	767.4	53.8	12.1	69	wsw.	0.3	2.8	.....	.....	7	wnw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.74	755.4	30.28	769.1	50.0	10.0	56	ne.	0.7	0.3	.....	.....	8	.....	.....	0	0	.....	Prof. F. Brioschi.
Steivio	22.19	593.5	.....	.....	18.1	— 7.7	58	se.	.....	.....	2	.....	0	.....	.....	0	0	misty.	Prof. P. F. Denza.
Valdobbia	22.20	594.0	.....	.....	27.0	— 2.8	26	e.	.....	.....	2	.....	7	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.31	769.9	30.34	770.7	32.9	0.5	81	calm	.....	.....	0	.....	9 ck	.....	sw.	0	0	cloudy	Hattori.
Awomori	30.24	768 1	30.28	769.1	34.0	1.1	75	ssw.	13.1	5.8	.....	0	5 ks	.....	.....	0	0	fair	K. Ogawa.
Hakodate	30.23	767.7	30.24	768.0	37.0	2.8	72	w.	18.6	8.3	.....	0	4	.....	.....	0	0	fair	
Hamamatsu	30.28	769.1	30.31	769.8	36.0	2.2	72	calm	.....	.....	0	0	0	.....	.....	0	0	clear	
Kagoshima	30.35	771.0	30.37	771.3	38.7	3.7	79	n.	.....	.....	2	0	0	.....	.....	0	0	clear	G. Miyanohaza.
Kioto	30.18	766.6	30.37	771.3	28.5	— 1.9	90	nw.	2.2	1.0	.....	0	0	.....	.....	0	0	clear	M. Tojima.
Kochi	30.32	770.0	30.34	770.5	38.1	3.4	61	nw.	3.1	1.3	.....	0	0	.....	.....	0	0	clear	K. Kusunose.
Miasaka	30.33	770.4	30.36	771.1	35.7	2.1	86	calm	.....	.....	0	0	0	.....	.....	0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.16	766.0	30.37	771.5	37.4	3.0	87	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	S. Takehayashi.
Niigata	30.31	769.9	30.35	770.9	35.9	2.2	86	sw.	1.6	0.7	.....	.....	10 ck	.....	sw.	0	0	covered	M. Morita.
Nobiru	30.28	769.2	30.30	769.6	38.5	3.6	49	nnw.	6.7	2.9	.....	0	0	.....	.....	0	0	clear	H. Midzushima.
Numazu	30.28	769.1	30.32	770.0	39.2	4.0	69	ene.	.....	.....	4	0	0	.....	.....	0	0	clear	R. Kaneda.
Sakai	30.34	770.5	30.35	770.8	36.0	2.2	87	sw.	.....	.....	2	.....	9 s	.....	.....	0	0	cloudy	K. Yamawchi.
Sapporo	.....	.....	.....	.....	14.0	—10.0	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	
Tokei Obs'y, Yeddo	30.28	769.1	30.36	771 1	38.8	3.8	56	se.	2.0	0.9	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	30.29	769.3	30.34	770.7	34.6	1.4	81	ne.	1.8	0.8	.....	0	0	.....	.....	0	0	clear	Y. Kuwamura.
Osaka	30.34	770.7	30.36	771.1	33.7	0.9	76	ne.	2.6	1.2	.....	0	0	.....	.....	0	0	clear	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.81	757.2	30.00	762.0	82.1	27.8	61	n.	11.0	4.9	.....	6 cs;c	4 ks;k	wsw.	nne.	0.06	1.5	cloudy	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. Diaz Pena.
Guanajuato	23.71	602.1	29.93	760.1	50.4	10.2	86	calm	0	0	.....	7 cs	0	.....	.....	0	0	cloudy	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.18	766.6	48.2	9.0	90	n.	.....	.....	1	8 c	0	sw.	.....	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.75	755.7	30.02	762.4	62.6	16.7	88	nnw.	5.3	2.3	.....	9 c	0	sw.	.....	0	0	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.14	587.8	30.35	770.8	43.7	6.5	75	calm	0	0	.....	0	0	.....	.....	0	0	very fine	The Staff.
Morelia	24.32	617.6	30.19	766.9	45.5	7.5	76	se.	.....	.....	1	1 c	2 k	s.	s.	0	0	clear	M. Tena, M. D.
Puebla, Catholic Institute	23.497	594.07	30.33	770.3	41.9	5.5	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
Zacatecas	22.53	572.2	30.20	768.6	46.1	8.0	57	sw.	10.4	4.6	.....	3 ck	0	sw.	.....	0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.34	770.7	30.34	770.7	42.1	5.6	.....	ene.	.....	.....	3	.....	.....	.....	.....	0.331	8.4	.....	
Groningen	30.35	771.0	30.41	772.4	32.4	0.2	.....	se.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Hellevoetsluis	30.35	770.9	30.35	770.9	39.7	4.3	95	ene.	.....	.....	2	.....	.....	.....	.....	0.051	1.3	.....	
Utrecht	30.34	770.6	30.39	771.8	39.2	4.0	91	se.	.....	.....	2	.....	8	.....	.....	0.055	1.4	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.93	760.2	.....	.....	79.0	26.1	82	nnw.	0.5	0.2	.....	.....	4	.....	.....	0.12	3.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.32	770.1	30.38	771.7	33.1	0.6	71	s.	25	11	.....	.....	10	.....	.....	0.024	0.6	.....	
Brono	30.08	763.9	30.11	764.9	33.4	0.8	89	sw.	18	8	.....	.....	10	.....	.....	.....	.....	snowing	
Christiania	30.31	769.9	30.47	774.0	14.4	— 9.8	94	e.	2	1	.....	.....	8	.....	.....	0	0	foggy	
Gjaesvær	29.55	750.5	29.57	751.1	37.2	2.9	.....	sw.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.88	758.9	29.93	760.1	32.5	0.3	96	ssw.	.....	.....	6	.....	10	.....	.....	0.638	16.2	snowing	
PORTUGUESE.																			
Angra, Azores	29.82	757.4	29.98	761.4	59.0	15.0	87	wnw.	4.9	2.2	.....	.....	6	.....	.....	0.551	14.0	.....	Dr. J. A. Sampaio.
Campo Major	29.34	745.2	30.37	771.3	51.8	11.0	65	ene.	9.4	4.2	.....	.....	9	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.23	767.9	30.32	770.2	66.2	19.0	59	ese.	3.8	1.7	.....	.....	5	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.01	762.3	30.39	771.8	47.3	8.5	82	ne.	15.0	6.7	.....	.....	10	ssw.	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	29.90	760 9	30.03	762.7	62.6	17.0	83	ssw.	15.4	6.9	.....	.....	10	.....	.....	0.031	0.8	.....	
Saint Paul de Loando	29.75	755.7	29.95	760.8	78.4	25.8	85	w.	1.8	0.8	.....	.....	2	sse.	.....	0	0	.....	
Serra da Estrella	25.50	649.3	30.45	773.4	39.2	4.0	50	sse.	4.9	2.2	.....	.....	10	.....	.....	0	0	foggy	
RUSSIAN.																			
Akmolinski	29.15	740 5	30.39	771.8	— 6.3	—21.3	85	wsw.	4	2	.....	0	0	.....	.....	.....	.....	.....	Major K. Lasarew.
Archangel	30.18	766.6	30.20	767.1	9.3	—12.6	92	w.	9	4	.....	.....	10	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashurnda	29.87	758.7	29.78	756.3	51.1	10.6	83	ene.	9	4	.....	0	2 k	.....	.....	blank	blank	.....	
Astrakhan	29.80	756 9	29.72	754.8	32.4	0.2	96	calm	0	0	.....	.....	10 n	.....	.....	0.055	1.4	heavy clouds	Capt. Wisganow.
Baku	29.78	756.3	29.73	755.1	46.6	8.1	64	calm	0	0	.....	0	4 ks	.....	.....	0	0	.....	
Barnaul	29.51	749.6	30.05	763.2	18.1	— 7.7	75	sw.	4	2	.....	.....	10	.....	.....	0.067	1.7	.....	Meteorological Obs'y.
Bielosersk	29.80	756.9	30.34	770.5	— 9.8	—23.2	86	wnw.	7	3	.....	0	6 ks	.....	.....	0	0	.....	
Dorpat	30.33	770.3	30.01	777.4	— 1.5	—18.6	100	w.	9	4	.....	0	0	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.03	737.3	30.05	763.2	20.5	— 6.4	84	sw.	11	5	.....	.....	10	.....	.....	inap.	inap.	.....	Meteorological Obs'y.
Elisawetgrad	29.76	756.0	30.27	768.8	3.2	—16.0	85	nw.	18	8	.....	0	8 k	.....	.....	0	0	.....	
Kasan	29.44	747.8	29.73	755.1	17.1	— 8.3	88	e.	4	2	.....	.....	10	.....	.....	0.177	4.5	light snow	Observatory.
Kem	30.22	767.0	30.27	768.9	— 4.4	—20.2	86	w.	18	8	.....	0	0	.....	.....	0	0	.....	
Kertch	29.08	753.9	29.70	754.4	14.9	— 9.5	91	nw.	11	5	.....	.....	10 n	.....	.....	blank	blank	.....	
Kieff	29.58	751.2	30.28	769.2	3.4	—15.9	85	nnw.	34	15	.....	.....	10ks;n	.....	.....	0	0	.....	Lagorio & Sastyrez.
Koslov	29.06	738.1	29.64	752.8	3.2	—10.0	90	n.	45	20	.....	.....	10 s	.....	.....	0.059	1.5	snow-drift	Observatory.
Liban	30.62	777.7	30.64	778.3	20.8	— 6.2	80	calm	0	0	.....	.....	2	.....	.....	0.047	1.2	.....	
Lugan	29.55	750.5	29.75	755.7	8.2	—13.2	76	wnw.	22	10	.....	.....	10	.....	.....	0.043	1.1	.....	E. Quaas.
Moscow	29.56	750.8	30.11	764.8	— 7.4	—21.9	77	n.	13.4	6.0	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	30.21	767.4	30.29	769.3	11.3	—11.5	82	n.	22	10	.....	0	0	.....	.....	0	0	.....	
Pekin, China	30.21	767.2	30.35	770.8	29.3	— 1.5	37	nw.	16	7	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Petrozavodsk	30.13	765.4	30.36	771.2	— 1.3	—18.5	78	wnw.	11	5	.....	0	1 ks	.....	.....	0	0	.....	Physical Observatory.
Pinsk	29.99	761.8	30.54	775.7	12.2	—11.0	72	nw.	18	8	.....	0	0	.....	.....	0	0	.....	Dr. Bergmann.
Poti	29.85	758 3	29.87	758.8	43.9	6.6	90	w.	13	6	.....	.....	10 n	.....	.....	0	0	.....	
St. Petersburg	30.48	774.2	30.50	774.6	— 6.0	—21.1	87	wnw.	9	4	.....	0	0	.....	.....	0	0	.....	
Samarkand	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Central Physical Obs'y.
Sevastopol	30.02	762 6	30.19	766.8	13.1	—10.5	86	ene.	40	18	.....	.....	9 n	.....	.....	0.161	4.1	.....	
Semipalatinsk	29.59	751.5	30.30	769.6	9.3	—12.6	73	w.	9	4	.....	.....	1	.....	.....	0	0	.....	Major Lasarew.
Starol Bykhov	29.92	759.9	30.43	773.0	3.7	—15.7	67	nnw.	22	10	.....	.....	10 k	.....	.....	0	0	light clouds	
Tiflis	28.40	721.4	29.85	758.1	43.7	6.5	36	wnw.	7	3	.....	0	7 n	.....	.....	0	0	.....	Physical Observatory.
Tomsk	29.00	751.8	29.90	759.4	13.6	—10.2	89	s.	7	3	.....	.....	9	.....	.....	.....	.....	.....	
Vlatka	29.27	743 4	29.97	761.3	— 4.0	—20.0	.....	ne.	4	2	.....	.....	8	.....	.....	0	0	.....	
Warsaw	30.20	767.1	30.67	778.9	19.4	— 7.0	59	n.	11	5	.....	1 cs	0	.....	.....	0	0	.....	Astronomical Obs'y.
Wilna	30.15	765.8	30.62	777.8	9.0	—12.8	80	nw.	2	1	.....	.....	0	.....	.....	0.004	0.1	.....	Berg, Assistant.
Yeniseisk	29.79	756.6	30.11	764.8	— 0.4	—18.0	87	e.	2	1	.....	.....	5	.....	.....	0	0	.....	M. O. Marks.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Scottish.																			
Monach Lt	.....	.....	30.14	765.5	48	9.8	92	s.	.....	.....	4	.....	10	.....	.....	0	0	hazy.	J. Youngclause
North Unst	.....	.....	30.16	766.1	.....	.....	.....	sw.	.....	.....	7	.....	10	.....	.....	blank	blank	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.24	768.1	30.35	770.8	53.2	11.8	62	w.	1.3	0.6	.....	0	0	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.44	773.1	30.50	774.6	54.7	12.6	80	se.	0.4	0.2	.....	3	2	ne.	.....	0.059	1.5	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.43	696.7	30.51	774.9	44.6	7.0	77	n.	0.9	0.4	.....	.....	3	.....	.....	0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	28.18	715.8	30.50	774.8	44.6	7.0	69	calm	0.2	9.1	.....	7	0	wnw.	.....	0	0	light clouds	The Staff.
Murcia, Met. Obs'y	30.24	768.1	30.40	772.2	57.9	14.4	60	w.	1.3	0.6	.....	2	3	ene.	.....	0	0	clouds	Olayo Diaz, Director.
Oviedo	29.60	751.9	30.48	774.2	37.4	3.0	91	s.	2.7	1.2	.....	0	0	.....	.....	0	0	clear	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.41	747.1	30.33	770.4	51.1	10.6	78	e.	0.7	0.3	.....	.....	10	.....	.....	0.114	2.9	covered	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.95	760.6	30.00	762.0	78.0	25.6	77	nnw.	2.5	1.1	.....	.....	10 n	.....	.....	0	0	misty	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.25	768.3	30.35	770.8	61.0	16.1	52	se.	17.8	8.0	.....	.....	10	.....	s.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.07	763.7	30.16	766.0	75.2	24.0	94	ne.	14.5	6.5	.....	0	6 kn	.....	ne.	0.591	15.0	raining	Manuel Maese.
Swedish.																			
Haparanda	30.21	767.4	30.25	768.4	9.0	—12.8	92	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	30.32	770.0	30.37	771.3	— 3.6	—19.8	100	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	
Hernosand	30.34	770.6	30.39	771.9	— 6.5	—21.4	71	calm	.....	.....	0	.....	1	.....	.....	0	0	.....	
Stockholm	30.36	771.2	30.54	775.7	12.2	—11.0	79	wsw.	.....	.....	2	.....	4	.....	.....	0	0	.....	
Wisby	30.54	775.6	30.60	777.1	27.7	— 2.4	71	w.	.....	.....	4	.....	5	.....	.....	0.028	0.7	snowing	
Sub-series.																			
Upsala	30.41	772.4	30.50	774.6	3.2	—16.0	100	sw.	9.6	4.3	.....	.....	2	wnw.	.....	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	28.88	733.5	30.37	771.3	34.5	1.4	94	s.	.....	.....	1	.....	10	.....	.....	.....	.....	snowy	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.31	769.8	35.4	1.9	65	n.	27	12.0	.....	.....	9	.....	n.	0.157	4.0	snowing	The Observatory.
Valona	.....	.....	30.22	767.7	47.8	8.8	.....	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.79	756.7	56.8	13.8	87	sw.	.....	.....	3	.....	10 n	.....	sw.	1.36	34.5	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.91	683.5	.....	.....	21.5	— 5.8	71	calm	.....	.....	0	1 cs	1 c	se.	e.	0	0	clear	Fred L. Kingsbury.
United States.																			
Albany, New York	30.22	767.6	30.31	769.9	8	—13.3	76	n.	5	2.2	.....	.....	10 s	.....	.....	0.32	8.1	cloudy	J. O. Barnes.
Alpena, Michigan	29.31	744.5	30.02	762.5	17	— 8.3	84	s.	11	4.9	.....	.....	10 n	.....	.....	0.38	9.7	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.21	640.3	30.33	770.4	18	— 7.8	73	ne.	3	1.3	.....	0	0	.....	.....	0.14	3.6	clear	W. C. Barnes.
Assiniaboine, Ft., Montana	26.93	684.0	29.97	761.2	— 1	—18.3	72	ne.	16	7.2	.....	.....	10 n	.....	ne.	0.41	10.4	heavy snow	B. O. Lenoir.
Atlanta, Georgia	28 86	733 0	30.09	764.3	57.0	13.9	100	sw.	16	7.2	.....	.....	10 n	.....	sw.	2.28	57.9	light rain	H. C. Smith.
Augusta, Georgia	29.89	759.2	30.09	764.3	53	11.7	93	calm	0	0	.....	.....	10 n	.....	.....	0.26	6.6	cloudy	Jas. M. Watson.
Baltimore, Maryland	30.14	765.5	30.19	766.8	27	— 2.8	77	ne.	9	4.0	.....	.....	10s; fg	.....	.....	1.01	25.7	light rain	John Henly.
Barnegat, New Jersey	30.12	765.0	30.14	765.5	25.0	— 3.9	92	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	Geo W Felger.
Behring Id., Behring Sea	29.25	742.9	29.27	743.4	12.7	—10.7	.....	e.	15	6.7	.....	.....	10 s	.....	.....	0.33	8.4	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.07	713.0	29.81	757.2	11	—11.7	89	calm	3	1.3	.....	0	4 ks	.....	.....	0.01	0.3	fair	Leonard Steinegar.
Benton, Fort, Montana	27.00	685.8	29.98	761.5	0	—17.8	100	ne.	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pritchard.
Billings, Montana	26.46	672.1	.....	.....	36	2.2	.....	sw.	3	1.3	.....	.....	10 n	.....	ne.	0.08	2.0	light snow	S. Wheaton.
Bismarck, Dakota	27 94	709 7	29.93	760.2	— 4	—20.0	68	n.	24	10.7	.....	.....	10 s	.....	.....	0	0	cloudy	T. Gibson.
Block Island, Rhode Island	30.17	766 3	30.20	767.1	32	0.0	88	e.	8	3.6	.....	hz.	5 s	.....	.....	0	0	fair	Cyrus Cramer.
Boise City, Idaho	27.23	691.6	30.16	766.1	21	— 6.1	87	se.	21	9.4	.....	.....	10 n	.....	.....	0.04	1.0	light snow	J. T. Elker.
Boston, Massachusetts	30.12	765.0	30.29	769.4	16.0	— 8.9	83	nw.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	B. E. Light.
Brownsville, Texas	29.99	761.7	30.04	763.0	55.7	13.2	100	n.	12	5.4	.....	.....	10 n	.....	.....	0.28	7.1	light snow	O. B. Cole.
Buffalo, New York	29.33	745.0	30.13	765 3	14.3	— 9.8	90	ne.	4	1.8	.....	.....	10 n	.....	n.	0.16	4.1	light rain	M. McCarty.
Buford, Fort, Dakota	27.88	708 1	30.08	764.0	—13	—25.0	57	ne.	9	4.0	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	W. Finn.
Burlington, Vermont	30.04	763.0	30.35	770.9	—10.0	—23.3	95	n.	8	3.6	.....	.....	10 s	.....	.....	Inap.	Inap.	cloudy	F. A. Mellen.
Cairo, Illinois	29.64	752.8	30.00	763.5	33.8	1.0	90	ne.	7	3.1	.....	.....	10 n	.....	n.	0.02	0.5	light snow	G. C. Schaeffer.
Cape Henry, Virginia	30.13	765.3	30.15	765.8	37	2.8	100	n.	2	0.9	.....	.....	10 s	.....	ne.	0.03	0.8	cloudy	W. H. Ray.
Cape May, New Jersey	30.10	764.5	30.13	765.3	26.0	— 3.3	88	n.	5	2.2	.....	.....	10 n	.....	.....	0.52	13.2	light rain	A. K. Alderson.
Cape Mendocino, California	.....	.....	.....	.....	.....	.....	.....	n.	10	4.5	.....	.....	10s; fg	.....	.....	0.27	6.9	cloudy	W. E. Smith.
Cedar Keys, Florida	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. J. McLean.
Champaign, Illinois	30.13	765.3	30.15	765.8	62	16.7	93	se.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	F. W. Mixer.
Charleston, S. Carolina	29.18	741.2	30.05	763.3	24.0	— 4.4	73	n.	1	0.4	.....	.....	10 s	.....	n.	0	0	cloudy	L. A. Welsh.
Charlotte, N. Carolina	30.03	762 7	30.09	764.3	59	15.0	100	sw.	8	3.6	.....	.....	fg.	.....	.....	0.12	3.0	dense fog	J. H. Smith.
Chattanooga, Tennessee	29.16	740.7	30.05	763.3	42.0	5.6	100	e.	4	1.8	.....	.....	10 n	.....	e.	0.66	16.8	light rain	D. O'Donoghue.
Cheyenne, Wyoming	29.19	741.4	30.05	763.3	49.0	9.4	96	se.	2	0.9	.....	.....	10n; fog	.....	.....	0.75	19.0	light rain	B. L. Goulding.
Chicago, Illinois	23.79	604.3	30.04	763.0	33.3	0.7	25	w.	28	12.5	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chincoteague, Virginia	29.29	744.0	30.04	763.0	23.7	— 4.6	77	sw.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	J. Mitchell.
Cincinnati, Ohio	30.10	764 5	30.12	765.0	32	0.0	100	ne.	9	4.0	.....	.....	10 n	.....	ne.	0.32	8.1	light rain	C. F. Dickens.
Cleveland, Ohio	29.38	746.2	30.07	763.8	36	2.2	89	s.	4	1.8	.....	.....	10 s	.....	s.	Inap.	Inap.	cloudy	R. B. Watkins.
Coleman City, Texas	29.30	744.2	30.08	764.0	23.4	— 4.8	95	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. Newlin.
Columbus, Ohio	28.25	717.5	30.13	765.3	38	3.3	92	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Concho, Fort, Texas	29.17	740.9	30.07	763.8	32	0.0	78	ne.	2	0.9	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	D. Cuthbertson.
Custer, Fort, Montana	28.13	714.5	30.15	765.8	35.0	1.7	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Davenport, Iowa	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. B. Lamar.
Davis, Fort, Texas	29.30	744.2	30.00	762.0	21	— 6.1	58	sw.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	R. R. Martin.
Dayton, Washington Ty	25.24	641.1	30.22	767.6	33	0.6	81	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Williams.
Deadwood, Dakota	28.22	716.8	30.02	762.5	41	5.0	82	sw.	8	3.6	.....	.....	10 s	.....	.....	0.13	3.3	cloudy	D. Moore.
Delaware Breakwater, Del	24.94	633.5	29.88	758.9	33	0.6	92	sw.	12	5.4	.....	.....	10 s	.....	sw.	0	0	cloudy	F. Willson.
Denison, Texas	30.14	765.5	30.16	766.1	29	— 1.7	88	n.	11	4.9	.....	.....	10 s	.....	n.	0.04	1.0	cloudy	T. S. Townsend.
Denver, Colorado	29.27	743.4	30.11	764.8	31.0	— 0.6	100	n.	2	0.9	.....	0	7 s	.....	.....	0.15	3.8	fair	J. W. Byram.
Des Moines, Iowa	24.60	624.8	30.12	765 0	40.0	4.4	62	w.	4	1.8	.....	0	2 s	.....	.....	0	0	clear	F. M. Neal.
Detroit, Michigan	28.98	736.1	29.95	760.7	8	—13.3	76	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. W. Conrad.
Dodge City, Kansas	29.32	744 7	30.08	764.0	26.0	— 3.3	88	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	C. F. R. Wappenhans.
Dubuque, Iowa	27.30	693.4	30.05	763.3	13	—10.6	48	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	V. P. Temple.
Duluth, Minnesota	29.24	742.7	30.01	762.2	14	—10.0	64	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Harvey Smith.
Eagle Pass, Texas	28.98	736.1	29.79	756.7	3.5	—15.8	83	w.	10	4.5	.....	0	4 s	.....	w.	0.02	0.5	fair	N. B. Conger.
Eagle Rock, Idaho	29.32	744.7	30.16	766.1	46.3	7.9	93	nw.	4	1.8	.....	0	7 s	.....	.....	0.01	0.3	fair	F. Belford.
Eastport, Maine	25.18	639.6	30.14	765.5	32	0.0	81	sw.	40	17.9	.....	.....	10 s	.....	.....	.....	.....	cloudy	J. M. Clifford.
Elliott, Fort, Texas	30.32	770.1	30.38	771.6	— 8.5	—22.5	74	n.	20	8.9	.....	4 c	2 s	w.	n.	0	0	fair	D. C. Murphy.
El Paso, Texas	27.16	689.9	30.09	764.3	18	— 7.8	58	nw.	4	1.8	.....	0	0	.....	.....	Inap.	Inap.	clear	W. J. Cundall.
Erie, Pennsylvania	26.43	671.3	30.31	769.9	30.0	— 1.1	88	w.	4	1.8	.....	0	0	.....	.....	0.08	2.0	clear	J. O'Dowd.
Escanaba, Michigan	29.32	744.7	30.09	764.3	24	— 4.4	88	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	Peter Wood.
Fredericksburg, Texas	29.14	740.1	29.86	758.4	19.0	— 7.2	91	s.	11	4.9	.....	.....	10 n	.....	s.	0.04	1.0	light snow	George Heathcote.
Galveston, Texas	28.28	718.3	30.10	764 5	48	8.9	86	calm	0	0	.....	.....	10 ks	.....	.....	0.20	5.1	cloudy	Frank Halwegler.
Grand Haven, Michigan	29.97	761.2	30.02	762.5	53	11.7	100	n.	16	7.2	.....	.....	10 n	.....	n.	3.17	80.5	light rain	E. O'C. Macinernay.
Grant, Fort, Arizona	29.27	743.4	29.98	761.5	25.0	— 3.9	88	se	11	4.9	.....	.....	10 n	.....	se.	Inap.	Inap.	cloudy	J. E. Mueller.
Hatteras, North Carolina	25.38	644.6	30.28	769.1	31	— 0.6	85	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	Robert U. Lord.
Helena, Montana	30.08	764.0	30.10	764 5	44	6.7	100	ne.	14	6.3	.....	.....	10 n	.....	ne.	0.50	12.7	light rain	R. M. Crawford.
Henrietta, Texas	25.47	646.9	29.90	759.4	39	3.9	100	sw.	5	2.2	.....	.....	10 n	.....	.....	0.06	1.5	light rain	N. C. Smith.
Huron, Dakota	29.06	738.1	30.13	765.3	29	— 1.7	88	nw.	6	2.7	.....	.....	10 s	.....	.....	Inap.	Inap.	cloudy	J. P. Sherry.
Indianapolis, Indiana	28 27	718.0	29.81	757.2	8.3	—13.2	63	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianola, Texas	29.22	742.2	30.06	763.5	27	— 2.8	80	sw.	2	0.9	.....	.....	10 s	.....	sw.	Inap.	Inap.	cloudy	J. F. Jirdinston.
Jacksboro, Texas	30.02	762 5	30.05	763.3	50.0	10.0	100	n.	12	5.4	.....	.....	10 n	.....	.....	0.10	2.5	light rain	I. A. Reed.
Jacksonville, Florida	28 93	734.8	30.17	766 3	32	0.0	78	nw.	6	2.7	.....	.....	10 s	.....	.....	Inap.	Inap.	cloudy	D. J. Carr.
Keogh, Fort, Montana	30.10	764 5	30.15	765.8	61	16.1	100	sw.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. W. Smith.
Keokuk, Iowa	27 15	689.6	29.84	757.9	9	—12.8	80	n.	24	10.7	.....	.....	10 n	.....	n.	0.02	0.5	light snow	A. Schneider.
	29.33	745.0	30.03	762.7	23.0	— 5.0	80	sw.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy	F. Z. Gosewisch.

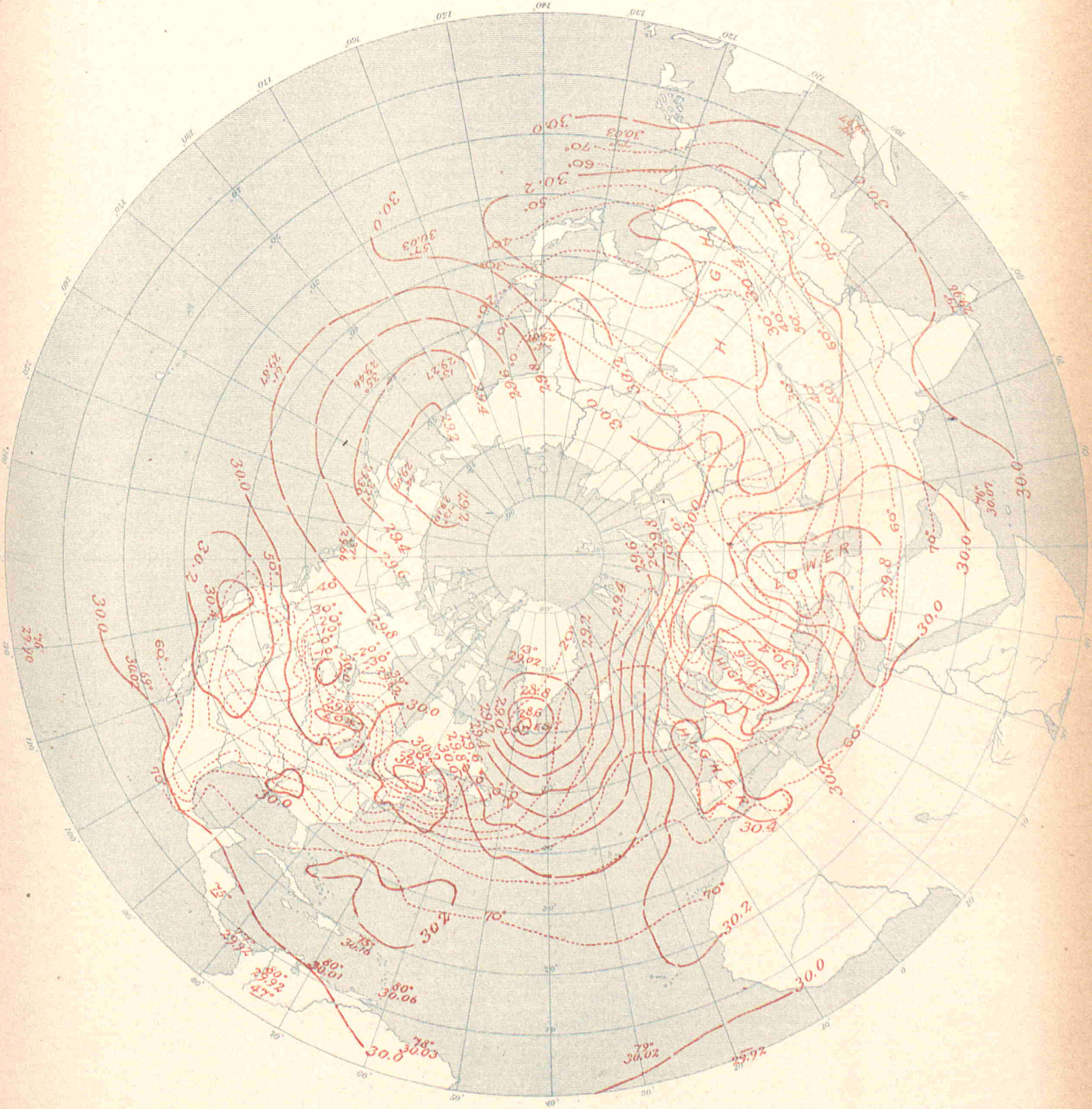
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Key West, Florida	30.10	764.5	30.12	765.0	73.0	22.8	84	e.	5	2.2	.....	0	2 s	.....	.....	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.12	765.0	30.14	765.5	41.5	5.3	96	ne.	4	1.8	.....	.....	fg.	.....	.....	0.26	6.6	dense fog	H. Mc P. Baldwin.
Knoxville, Tennessee	28.97	735.8	30.05	763.3	46.4	8.0	100	ne.	4	1.8	.....	.....	10 n	.....	.....	0.46	11.7	light rain	J. A. Cody.
La Crosse, Wisconsin	29.03	737.3	29.87	758.7	9	—12.8	76	s.	12	5.4	.....	0	0	.....	.....	0.01	0.3	clear	S. C. Emery.
Leavenworth, Kansas	29.12	739.6	30.08	764.0	23	— 5.0	73	s.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.09	738.9	29.96	761.0	44.0	6.7	76	sw.	6	2.7	.....	.....	10 n	.....	.....	0.07	1.8	light rain	W. Bell.
Little Rock, Arkansas	29.68	753.9	30.01	762.2	44	6.7	93	n.	1	0.4	.....	.....	10 s	.....	.....	0.30	7.6	cloudy	W. U. Simons.
Los Angeles, California	29.90	759.4	30.30	769.6	43	6.1	89	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.46	748.3	30.04	763.0	37.5	3.1	85	ne.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.36	745.7	30.08	764.0	36	2.2	85	ne.	2	0.9	.....	.....	10 n	.....	.....	0.16	4.1	light rain	Louis Duane.
Mackinaw City, Michigan	29.25	742.9	29.95	760.7	17.0	— 8.3	83	s.	15	6.7	.....	.....	10 s	.....	.....	0.41	10.4	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.09	764.3	30.10	764.5	47.0	8.3	100	nw.	4	1.8	.....	.....	10 n	.....	nw.	0.37	9.4	light rain	William Daly.
Madison, Wisconsin	28.90	734.0	30.00	762.0	17	— 8.3	83	sw.	9	4.0	.....	.....	10 n	.....	.....	0.01	0.3	light snow	C. A. Shaw.
Maginnis, Fort, Montana	25.27	641.8	29.82	757.4	7	—13.9	80	nw.	4	1.8	.....	.....	10 n	.....	nw.	0.30	7.6	heavy snow	F. Burke.
McKavett, Fort, Texas	27.80	706.1	29.18	766.6	40	4.4	82	sw.	2	0.9	.....	.....	8 ks	.....	sw.	inap.	inap.	cloudy	J. E. Thatcher.
Marquette, Michigan	29.02	737.1	29.80	756.9	20	— 6.7	84	s.	12	5.4	.....	.....	10 n	.....	.....	0.02	0.5	light snow	J. Gilligan.
Memphis, Tennessee	29.64	752.8	30.00	762.0	39	3.9	100	calm	0	0	.....	.....	10 n	.....	.....	0.37	9.4	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.19	741.4	29.99	761.7	23	— 5.0	88	s.	9	4.0	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	W. Line.
Missoula, Fort, Montana	26.47	672.3	29.93	760.2	35	1.7	89	s.	4	1.8	.....	.....	10 n	.....	.....	0.23	5.8	light rain	I. H. Young.
Mobile, Alabama	29.99	761.7	30.03	762.7	61.5	16.4	96	s.	6	2.7	.....	.....	108; fg	.....	s.	0.06	1.5	cloudy	C. A. Read.
Montgomery, Alabama	29.75	755.6	29.99	761.7	65.3	18.5	92	s.	5	2.2	.....	.....	10 ks	.....	sw.	0.24	6.1	cloudy	J. B. McLaughlin
Moorhead, Minnesota	28.73	729.7	29.81	757.9	— 9	—22.8	100	n.	14	6.3	.....	0	0	.....	.....	0.01	0.3	clear	H. Bessant.
Morgantown, W. Virginia	29.02	737.1	30.08	764.0	36.5	2.5	88	w.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.54	597.9	30.17	766.3	— 2.0	—18.9	100	nw.	42	18.8	.....	.....	fg.	.....	nw.	0.06	1.5	dense fog	S. W. Beall.
Nashville, Tennessee	29.43	747.5	30.04	763.0	40.5	4.7	100	ne.	2	0.9	.....	.....	10 n	.....	ne.	0.31	7.9	light rain	L. N. Jesunofsky.
New Haven, Connecticut	30.07	763.8	30.19	766.8	14	—10.0	100	ne.	16	7.2	.....	.....	10 n	.....	ne.	0.04	1.0	light snow	J. H. Sherman.
New London, Connecticut	30.16	766.1	30.21	767.3	19	— 7.2	100	ne.	9	4.0	.....	.....	10 n	.....	ne.	0.16	4.1	light snow	J. G. Lynch.
New Orleans, Louisiana	29.94	760.5	30.00	762.0	69.2	20.7	93	s.	10	4.5	.....	.....	10 s	.....	s.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	30.18	766.0	30.24	768.1	20.2	— 6.6	86	n.	7	3.1	.....	.....	10 n	.....	.....	0.08	2.0	light snow	W. McGillivray.
New York, New York	30.01	762.2	30.20	767.1	22	— 5.6	87	ne.	2	0.9	.....	.....	10 n	.....	ne.	0.14	3.6	cloudy	J. B. Merrill.
Norfolk, Virginia	30.10	764.5	30.13	765.3	39	3.9	100	n.	4	1.8	.....	.....	10 n	.....	.....	0.20	5.1	light rain	Wm. Davis.
North Platte, Nebraska	26.88	682.7	30.00	762.0	16.6	— 8.6	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y.	29.92	760.0	29.96	761.0	43.0	6.1	83	s.	4	1.8	.....	.....	10 s	.....	.....	0.33	8.4	cloudy	J. Dascomb.
Omaha, Nebraska	28.70	729.0	29.97	761.2	14.8	— 9.6	80	s.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pollak.
Oswego, New York	29.84	757.9	30.19	766.8	14.0	—10.0	54	e.	4	1.8	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	J. G. Linsley.
Palestine, Texas	29.51	749.5	30.09	764.3	41.5	5.3	92	n.	5	2.2	.....	.....	10 n	.....	.....	0.19	4.8	light rain	L. M. Pindell.
Pensacola, Florida	30.01	762.2	30.04	763.0	63.0	17.2	100	s.	5	2.2	.....	.....	fg.	.....	.....	0.11	2.8	dense fog	M. McGauran.
Philadelphia, Pa.	30.08	764.0	30.19	766.8	23	— 5.0	88	ne.	10	4.5	.....	.....	10 s	.....	ne.	0.08	2.0	cloudy	T. T. Townsend.
Pike's Peak, Colorado	17.58	446.5	30.28	769.1	8	—13.3	69	ne.	34	15.2	.....	0	2 c	.....	.....	0	0	clear	H. Hall.
Ploche, Nevada	24.14	613.1	30.34	770.6	25.8	— 3.4	76	sw.	1	0.4	.....	10 cs	0	.....	.....	0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.25	742.9	30.10	764.5	31.0	— 0.6	88	calm	0	0	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	W. A. Reid.
Poplar River, Montana	27.64	702.0	29.99	761.7	.....	.....	.....	nw.	.....	*	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.03	762.7	30.04	763.0	65.5	18.6	98	s.	10	4.5	.....	0	fg.	.....	.....	inap.	inap.	clear	H. B. Boyer.
Port Huron, Michigan	29.35	745.5	30.08	764.0	15.6	— 9.1	91	se.	4	1.8	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	W. O. Bailey.
Portland, Maine	30.30	769.0	30.35	770.9	7	—13.9	76	n.	11	4.9	.....	.....	10 s	.....	n.	0.02	0.5	cloudy	W. W. Eichelberger.
Portland, Oregon	29.95	760.7	30.02	762.5	40.7	4.8	92	n.	6	2.7	.....	.....	10 n	.....	n.	4.39	111.5	light rain	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	45	7.2	100	ne.	.....	.....	4	.....	10 n	.....	n.	0.29	7.4	light rain	F. S. Coburn.
Prescott, Arizona	24.92	633.0	30.30	769.6	21.5	— 5.8	87	nw.	1	0.4	.....	0	0	.....	.....	0.01	0.3	clear	W. H. Clendenon.
Provincetown, Mass.	30.24	768.1	30.27	768.8	27	— 2.8	88	e.	10	4.5	.....	.....	10 n	.....	.....	0.35	8.9	light snow	P. T. Jenkins.
Punta Rassa, Florida	30.14	765.5	30.15	765.8	63	17.2	97	e.	4	1.8	.....	5 c	0	.....	.....	0	0	fair	W. J. Evans.
Red Bluff, California	30.10	764.5	30.47	773.9	44	6.7	93	s.	2	0.9	.....	.....	10 ks	.....	s.	0	0	cloudy	J. R. Williams.
Rochester, New York	29.47	748.5	30.18	766.6	13	—10.6	89	se.	6	2.7	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	E. W. McGann
Roseburg, Oregon	29.60	751.8	30.17	766.3	52	11.1	65	s.	8	3.6	.....	0	9 s	.....	sw.	0.03	0.8	threatening	J. J. Nanry.
Sacramento, California	30.35	770.9	30.43	772.9	44.4	6.9	93	n.	3	1.3	.....	.....	10 s	.....	nw	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.45	748.0	30.09	764.3	20.7	— 2.9	94	se.	4	1.8	.....	.....	108; fg	.....	.....	inap.	inap.	cloudy	I. H. Weber.
St. Michael, Fort, Alaska	29.04	737.6	29.07	738.4	14	—10.0	100	e.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	28.83	732.3	29.78	756.4	— 2.0	—18.9	83	se.	11	4.9	.....	1 cs	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	28.94	735.1	29.92	760.0	—18	—27.8	100	nw.	18	8.0	.....	0	0	.....	.....	0.06	1.5	clear	C. B Dilley.
Salt Lake City, Utah	25.74	653.8	30.31	769.9	30	— 1.1	60	se.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.36	745.7	30.09	764.3	50.5	10.3	90	ne.	2	0.9	.....	0	8 s	.....	ne.	0.01	0.3	cloudy	T. J. Kenan.
San Diego, California	30.19	766.8	30.26	768.8	45.1	7 3	76	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. G. Dobbins.
Sandusky, Ohio	29.36	745.7	30.08	764.0	24.5	— 4.2	80	w.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.16	766.1	30.19	766.8	23.0	— 5.0	88	n.	17	7.6	.....	.....	10 s	.....	n.	0.09	2.3	cloudy	B. A. Blundon.
San Francisco, California	30.34	770.6	30.41	772.4	47.5	8.6	96	nw.	9	4.0	.....	.....	fg.	.....	nw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.23	590.0	30.28	769.1	20	— 6.7	51	n.	14	6.3	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.00	762.0	30.10	764.5	62	16.7	84	sw.	6	2.7	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	H. W. Ford.
Shaw, Fort, Montana	26.04	661.4	29.90	759.4	9	—12.8	80	ne.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.77	756.1	30.02	762.5	48	8.9	93	n.	5	2.2	.....	.....	10 s	.....	n.	0.22	5.6	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.83	732.3	30.16	766.1	30.5	— 0.8	87	n.	6	2.7	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.37	619.0	30.23	767.8	26.0	— 3.3	88	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Sitka, Alaska	29.59	751.6	29.66	753.4	36.6	2.6	78	se.	10	4.5	.....	.....	10 n	.....	se.	0.13	3.3	light snow	F. W. Fickett.
Smith, Fort, Arkansas	29.56	750.8	30.06	763.5	31.5	— 0.3	92	w.	2	0.9	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	J. B. Campbell.
Smithville, North Carolina	30.04	763.0	30.08	764.0	51	10.6	100	n.	1	0.4	.....	.....	fg.	.....	.....	0.10	2.5	dense fog	O. Parker.
Spokane Falls, Wash. Ter.	27.78	705.6	29.92	760.0	38	3.3	92	sw.	12	5.4	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	H. Clifford.
Springfield, Illinois	29.33	745.0	30.06	763.5	28	— 2.2	82	sw.	2	0.9	.....	.....	10 n	.....	.....	inap.	inap.	light rain	T. B. Jennings.
Springfield, Missouri	28.55	725.2	30.07	763.8	28	— 2.2	94	w.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	J. H. Bryce.
Starkville, Miss.	29.44	747.8	29.94	760.5	56	13.3	93	calm	0	0	.....	.....	10 s	.....	.....	0.89	22.6	threatening	C. Dill.
Stevenson, Fort, Dakota	27.96	710.2	30.02	762.5	—14	—25.6	50	e.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.05	687.1	30.19	766.8	30	2.2	82	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass.	30.23	767.8	30.29	769.4	30.0	— 1.1	94	e.	20	8.9	.....	.....	10 s	.....	e.	0.60	15.2	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.46	697.5	30.29	769.4	38.5	3.6	72	calm	.....	.....	0	0	0	.....	.....	0.15	3.8	clear	J. T. Fitzgerald.
Toledo, Ohio	29.36	745.7	30.10	764.5	23	— 5.0	88	calm	0	0	.....	.....	.....	.....	.....	inap.	inap.	cloudy	A. Buell.
Tucson, Arizona	27.79	705.9	30.29	769.4	36	2.2	92	se.	4	1.8	.....	0	0	.....	.....	0.07	1.8	clear	J. L. Whiteside.
Umatilla, Oregon	29.65	753.1	30.04	763.0	44	6.7	76	sw.	4	1.8	.....	.....	10 n	.....	.....	0.05	1.3	light rain	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	32.9	0.5	71	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.74	755.4	30.00	762.0	49.5	9.7	91	nw.	10	4.5	.....	.....	10 n	.....	.....	1.78	45.2	light rain	James Kenealy.
Visalia, California	30.00	762.0	30.40	772.1	32.5	0.3	92	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	O. D. Stewart
Washakie, Fort, Wyoming	24.18	614 2	29.97	761.2	38.1	3.4	66	w.	42	18.8	.....	0	4 s	.....	w.	0	0	fair	T. M. Ambler.
Washington, D. C.	30.07	763.8	30.10	766.8	26.0	— 3.3	94	ne.	1	0.4	.....	.....	10 s	.....	ne.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.94	658.9	30.08	764.0	10	—12.2	80	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.51	749.5	30.14	765.5	25	— 3.9	80	e.	2	0.9	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.00	762.0	30.00	763.5	52	11.1	93	se.	1	0.4	.....	.....	10 n	.....	e.	0.49	12.4	light rain	Samuel A. Haney.
Winnemucca, Nevada	25.75	654.0	30.29	769.4	28.5	— 1.9	79	sw.	8	3.6	.....	0	3 s	.....	sw.	inap.	inap.	clear	J. Grover.
Yankton, Dakota	28.40	721 3	29.82	757.4	19	— 7.2	70	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Attfield.
Yuma, Arizona	30.11	764.8	30.26	768.6	43.6	6.4	83	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8	.....	.....	46.5	8.1	52	e.	2	0.9	.....	1 k	1 ks	nw.	w.	0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	74	23.3	79	n.	1	0.4	.....	1 cs	0	.....	.....	0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	78	25.0	73	e.	.....	.....	2	4 c	0	.....	.....	0.030	0.8	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. Colombia	29.37	746.0	29.92	760.0	80	26.7	89	calm	.....	.....	0	5 ck	2 s	w.	calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75	23.9	92	ne.	.....	.....	3	cs	0	se.	.....	0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.30	744.2	29.30	745.7	32	0.0	78	sw.	.....	.....	3	7 cs	.....	.....	.....	0.00	1.5	fair	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Walloe.
York Factory, B. A.	29.75	755.6	29.82	757.4	—39.0	—39.4	.....	sw.	14	6.3	.....	0	0	.....	.....	0	0	hazy	Forbes me & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
British Naval.																		
H. M. S. Amethyst, Bahia Blanca, La Plata, S. A.†	30.09	764.3	70	21.1	84	se.			1-2		1	s.						misty.
H. M. S. Audacious, N. 9° 00′, E. 116° 39′	29.87	758.7	79	26.1	90	ene.			2		4	ne.				4	nne.	showery.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.01	762.2				ese.			4		2							d. clouds.
H. M. S. Carysfort, Suez Canal, Egypt	29.99	761 7	60	15.6	88	w.			6-7		10	w.						showery.
H. M. S. Champion, Singapore, Malay peninsula	29.97	761.2	79	26.1	82	n.			2		10	ne.				1	ne.	overcast.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.40	772.1	32	0.0	100	calm			0		0							blue sky.
H. M. S. Comus, N. 32° 00′, W. 120° 30′	30.22	767.6	56	13.3	80	n.			3		0					3	nw.	blue sky.
H. M. S. Candor, N. 33° 48′, E. 24° 52′	30.11	764.8	58	14.4	78	n.			5		6	nnw.				5	nw.	showery.
H. M. S. Constance, St. Vincent, Cape Verd Ids.	30.18	766.6	77	25.0		nne.			1-3									
H. M. S. Curacoa, Yokohama, Japan			48.5	9.2	86	calm			0		0							misty
H. M. S. Crocodile, N. 45° 01′ W. 9° 10′	30.30	769.6	54	12.2	79	ese.			5		5	ese.				3	wsw.	d. clouds.
H. M. S. Diamond, S. 36° 15′, E. 151° 04′	30.20	767.1	69	20.6	75	e.			3		0					3	e.	blue sky
H. M. Dock-Yard, Bermuda, W. I.	30.12	765.0	67	19.4	95	wsw.			1-2		6	wsw.						gloomy.
H. M. S. Euryalus, Trincomalee, Cylon	29.96	761.0	79	26.1	?	nne.			2		4							d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.37	771.4	44	6.7	84	calm			0		5							d. clouds.
H. M. S. Gannet, S. 37° 00′, W. 73° 11′	29.91	759.7	60	15.6	82	calm			0		0							blue sky.
H. M. S. Heroine, N. 7° 13′, W. 25° 20′	30.04	763.0	77	25.0	77	ne.			5		4	nne.				4	nne.	d. clouds.
H. M. S. Himalaya, N. 39° 45′, W. 11° 30′.	30.27	768.8	58	14.4	87	se.			1		7							d. clouds.
H. M. S. Iron Duke, N. 9° 05′ E. 72° 40′.	29.91	759.7	81	27.2	82	n.			3		3	n.				2	n	d. clouds.
H. M. S. Lark. S. 33° 10′, E. 164° 32′	30.01	762.2	66.3	19.1	81	e.			4		8					4	e.	d. clouds.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.35	770.9	44.7	7.1	75	calm			0		0							misty.
H. M. S. Monarch Port Said, Egypt	29.90	759.4	60	15.6	87	wsw.			6-8		5							squally.
H. M. S. Mutine, S. 4° 21′, W. 107° 58′	29.97	761.2	72.5	22.5		ese.			2		2					1	ese.	blue sky.
H. M. S Rocket, Lota Bay, Chili	29.94	760.5	64	17.8	83	s.			2		4							d. clouds.
H. M. Sarapis, N. 15° 34′, E. 57° 23′	30.07	763.8	76	24.4	81	nne.			3		3					2	ene.	d. clouds.
H. M. S Superb, N. 30° 45′ E. 35° 45′*	29.83	757.7	51	10.6	86	nne.			2		8	ne.				2	nne.	raining.
H. M. S. Swiftsure, Callao Bay, Peru	29.96	761.0	66	18.9	94	calm			0		4					4	s.	misty.
H. M. S. Sylvia, Cape Providence, Patagonia	29.77	756.1	46.2	7.9	90	nw.			3		8							d. clouds.
H. M. S. Tourmaline, Bombay, India	29.99	761.7				wnw.			2		5	sw.						d. clouds.
H. M. S. Zephyr, N. 37° 33′ E. 121° 25′	30.37	771.4	31	— 0.6		var.			1		0					*sm'h		misty.
Portuguese Naval.																		
Tamega, Macao, China	30.33	770.4	53.6	12.0	60	n.			4		0			0	0			blue sky.
Swedish Naval.																		
Vanadis, N. 34° 20′, E. 22° 57′	30.10	764.5	57.2	14.0	65	n.			3		10							overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla*	30.09	764.3	66	18.9	94	se.	17	7.6			10		se.	0.42	10.7			foggy.
Navy Yard, Portsmouth, N. H*	30.29	769.4	8	—13.3	?	ne.	8	3.6			10		ne.					snowing.
Naval Hospital, Yokohama, Japan*	30.16	766.1	41.5	5.3	73	calm			0		0			0	0			clear.
Adams, Sitka, Alaska†	29.65	753.1	33	0.6	100	ene.			1		5							fair.
Alaska, Mare Island, Cal.	30.36	771.1	48	8.9	77	calm			0		10			0	0			cloudy.
Alliance, N. 17° 02′, W. 70° 47′	30.04	763.0	79	26.1	95	ene.			4		8	ene.	light	light	mod.	e.		cloudy.
Ashuelot, Shanghai, China	30.44	773.2	33	0.6	90	se.			1		0							clear.
Brooklyn, S. 41° 04′ W. 58° 23′*	29.95	760.7	59	15.0	87	se.	12	5.4			2	calm		0	0	sm'h		fair.
Colorado, New York, N. Y.	30.29	769.4	21	— 6.1	100	nne.	6	2.7			10			0	0			overcast.
Enterprise, N. 37° 02′, W. 66° 47′ *	29.95	760.7	61	16.1	94	ne.			4		10	calm				mod.	ne.	cloudy.
Essex, Callao, Peru	29.92	760.0	65	18.3	94	calm			0		0							foggy.
Franklin, Norfolk, Va.	30.11	764.8	40	4.4	81	ne.	6	2.7			10			0.63	16.0			rainy.
Galena, Montevideo, Uruguay*	29.85	758.2	74	23.3	95	ssw.			2		5					sm'h		hazy.
Hartford, S. 29° 16′ W. 74° 40′*	29.93	760.2	64	17.8	94	sse.			4		10					sm'h	se.	cloudy.
Independence, Mare Island, Cal.	30.41	772.4	46	7.8	92	ene.			4		10			0	0			cloudy.
Iroquois, Callao, Peru	29.90	759.4	65	18.3	94	calm			0		10							overcast.
Jamestown, Boston, Mass *†	30.28	769.1	22	— 5.6	72	nw.			1		10							cloudy.
Juniata, N. 37° 43′, W. 17° 36′*	30.16	766.1	65	18.3	89	s.			3		2	sw.	sli't	sli't	long	nw.		fair.
Kearsarge, N. 12° 35′, W. 60° 09′	30.03	762.7	80	26.7	90	ene.			5		5	e.			mod.	e.		fair.
Lackawanna, S. 3° 17′, W. 121° 05′*	29.90	759.4	76	24.4	76	sse			4		2	w.			sm'h	se.		clear.
Lancaster, Genoa, Italy	30.29	769.4	43	6.1	75	nne.			4		10	nne.						threatening
Michigan, Erie, Pa.			32	0.0	89	w.			3		10							cloudy.
Minnesota, New York, N. Y.	30.21	767.3	21	— 6.1	100	ne.	4	1.8			10							snowing.
Monocacy, Nagasaki, Japan	30.35	770.9	40	4.4	91	nne.			1		5		w.					fair.
New Hampshire, Newport, R. I.	30.22	767.6	23	— 5.0	?	nne.			3		10					sm'h		snowing.
Nipsic, Lisbon, Portugal	30.37	771.4	55	12.8	68	ene.			4		10							cloudy.
Onward, Callao, Peru*†	30.04	763.0	64	17.8	94	calm			0		10		n.					foggy.
Palos, Tientsin, China			31	— 0.6	100	nw.			4		9							clear.
Pensacola, Panama, U. S. C*	29.82	757.4	77	25.0	86	nw.	10	4.5			2		nw.	0	0	sm'h		clear.
Powhatan, Boston, Mass	30.30	769.6	14	—10.0	100	nnw.			2		10							light snow.
Quinnebaug, Genoa, Italy	30.31	769.9	48	8.9	56	nne.			4		10		calm					cloudy.
Ranger, N. 20° 04′, W. 113° 12′*	30.02	762.5	69	20.6	79	nne.			3		10		n.	0	0	mod.	n.	cloudy.
Richmond, Hong-Kong, China	30.23	767.8	56	13.3	57	calm			0		0			0	0			clear.
Saratoga, New York, N. Y.	30.20	767.1	20	— 6.7	69	nne.			3		10		ne.	0	0			overcast.
St. Louis, League Island, Pa.	30.23	767.8	21	— 6.1	85	nne.			2		10			0.05	1.3			cloudy.
Tennessee, St. Pierre, Martinique, W. I*	30.12	765.0	78	25.6	100	e.	4	1.8			5?		ne.	light	light	sm'h		clear.?
Vandalia, N. 18° 17′, W. 65° 01′*	30.27	768.8	77	25.0	95	ene			2		5							fair.
Wabash, Boston, Mass.	30.25	768.3	14	—10.0	64	n.	6	2.7			10		n.	0	0			cloudy
Wachusetts, Mare Island, Cal.	30.26	768.6	45	7.2	100	se.			1		10		calm					overcast.
Wyandotte, Washington, D. C.			30	— 1.1	100	ne.			1		10		n.					sleeting.
Yantic, N. 13° 07′, W. 65° 41′	30.17	766.3	78	25.6	95	e.			4		5					mod.	e.	fair.
Merchant Marine.																		
S. S. Grecian, Glasgow, Scotland*	30.31	769.9	44	6.7	92	w.			4		5?		wnw.	4 h'r	4 h'r			cloudy.?
S. S. Polynesian, N. 46° 22′, W. 54° 09 *	29.76	755.9	12	—11.1		wnw.			6		10		nw.	snow	snow	r'gh	wsw.	snowing.
S. S. British Crown, Liverpool, Engf	30.43	772.9	44	6.7		calm			0		fg.			0	0			dense fog.
S. S. Indiana, Queenstown, Ireland			50	10.0	86	wsw.			6		10		sw.			mod	sw.	overcast.
S. S. Lord Clive, N. 51° 31′ W. 17° 25′	30.11	764.8				s.			6		5		s;sw	4 h'r	4 h'r	high	var.	cloudy.
S. S. Lord Gough, N. 40° 49′, W. 65° 50′	30.22	767.6	30	— 1.1		ne.			5		10		ne.	snow	snow	mod.	ne.	cloudy.
S. S. Ohio, N. 45° 39′, W. 50° 19′	29.67	753.6	23	— 5.0	86	wsw.			6		6		w.			r'gh	w.	squally.
S. S. Pennsylvania Liverpool, Engf	30.43	772.9	41	5.0	91	s.			4		2		sw.	0	0			foggy.
S. S. Jason, N. 40° 26′, W. 72° 10′			43.7	6.5		w.			4		8 n						ene.	gloomy.
S. S. Stella, N. 50° 25′, W. 9° 10′	30.35	770.9	54	12.2		sw.			3		5		s.	2 h'r	2 h'r	4	sw.	d. clouds.
S. S. Anchoria, N. 55° 21′ W. 11° 44′	30.02	762.5				sw.			6		1		sw.	0	0	h'vy	sw.	hazy.
S. S. Bolivia, N. 42° 44′, W. 56° 54′	30.06	763.5	26	— 3.3	92	nw.			4		10		nw.	snow	snow	mod	nw.	overcast.
S. S. Dorian, Castellamare, Sicily*	30.13	765.3				var.								0	0			clear.
S. S. Utopia, N. 33° 02′ W. 57° 57′†	30.32	770.1	68	20.0	95	wsw.			4		9		w.	3 h'r	3 h'r	mod.	nw.	light rain.
S. S. Ailsa, N. 40° 19′, W. 74° 02′†	30.12	765.0	30	— 1.1	100	nw.			6		10		nw.	snow	snow	mod.	nw.	foggy.
S. S. Antillas, Mayaguez, W. I						nne.			2		2?		n.			mod.	ne.	cloudy.?
S. S. Ambrose, Para, Brazil†	30.04	763.0	84	28.9		calm			0					4 h'r	4 h'r			fine.
S. S. Landaff City, N. 52° 00′, W. 21° 00′*†	29.90	759.4				wsw.			5		9		w.	rain	rain	h'vy	sw.	dull.
S. S. Auckland, S. 55° 37′, W. 99° 16′	29.35	745.5	45	7.2	84	w.			5		9							overcast.
S. S. Caldew, S. 20° 53′, E. 77° 50′	30.09	764.3	76	24.4	77	ese.			5		3							d. clouds.
S. S. City of Agra, S. 56° 25′, W. 90° 13′	29.30	744 2	44.4	6.9	89	s.			5		10							d. clouds.
S. S. Gordon Castle, N. 32° 19′, E. 29° 45′	29.95	760.7	57.0	13.9	94	nw.			7		5					high	cf'd	d. clouds.
St. Kilda, N. 26° 00′, W. 62° 40′	30.31	769.9	71.8	22.1	85	e.			3		3							blue sky
S. S. Scotia, N. 36° 17′, W. 7° 00′	30.34	770.6	61.5	16.4	77	se.			5		9							misty.
S. S. Lake Huron, N. 49° 35′, W. 29° 32′*	29.37	746.0	42	5.6		wsw.			6				w.	snow	snow	high	w.	
S. S. Marathon, N. 51° 12′ W. 16° 50′	30.04	763.0	53	11.7		ssw.			6		8		sw.	6 h'r	6 h'r	high	sw.	squally.
S. S. Pavonia, N. 47° 58′, W. 36° 05′	29.51	749.5	41	5.0	74	wsw.			6		5		wsw.	snow	snow	h'vy	wsw.	stormy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																		
S. S. Colina, N. 45° 03′, W. 53° 02′†	29.74	755.4	.....	.....	.....	nw.	.....	.....	4	.....	3	.....	wnw.	0	0	long	nw.	clear.
S. S. Labradore, N. 43° 13′, W. 59° 02′	.....	.....	23	−5.0	.....	nnw.	.....	.....	6	.....	7	.....	nw.	snow	snow	sm'h	nnw.	fair.
S. S. Ville de Marseilles, Bordeaux, France*†	30.40	772.1	50	10.0	.. ..	ne.	.....	.....	2	.....	0	.....	....	0	0	.....	.....	clear.
S. S. Abyssinia, N. 49° 50′, W. 28° 12′	29.66	753.4	47	8.3	77	sw.	.....	.....	8	.....	5	.....	sw.	1 h'r	1 h'r	h'vy	sw.	fair.
S. S. Wyoming, N. 45° 36′, W. 47° 38′	29.89	759.2	24	−4.4	.....	wnw.	.....	.....	6	.....	6	.....	nw.	8 h'r	8 h'r	long	nnw.	snowy.
S. S. Bohemia, Hamburg, Germany *†	30.30	771.1	.....	.....	.....	se.	.....	.....	3	.....	8	.....	.....	0	0	.....	.....	fair.
S. S. Rugia, off Barfleur, France	30.45	773.4	59	15.0	.....	n.	.....	.....	5	.....	0	.....	.....	0	0	sm'h	n.	clear.
S. S. Silesia, N. 40° 54′, W. 64° 17′†	30.25	768.3	37.0	2.8	.....	ne.	.....	.....	6	.....	9	.....	ne.	snow	snow	3	ne.	cloudy.
S. S. Vandalia, N. 49° 55′, W. 5° 08′	30.59	777.0	52.7	11.5	.....	s.	.....	.....	1–2	.....	2	.....	s.	.....	.....	mod.	ssw.	fair.
S. S. Wieland, N. 49° 02′, W. 28° 52′	29.82	757.4	.....	.....	.....	w.	.....	.....	6	.....	8	.....	w.	24 h'r	24 h'r	high	sw.	raining.
S. S. Mentmore, N. 49° 49′, W 37° 48′*	29.42	747.3	.....	.....	.....	wsw.	.....	.....	6	.....	8	.....	w.	snow	snow	high	w.	clearing.
S. S. Archimedes, S. 1° 32′ W. 32° 29′	29.89	759.2	.....	.....	.....	ese.	.....	.....	4	.....	2	.....	se.	0	0	light	se.	fine.
S. S. Hevelius, Liverpool, Engf	30.32	770.1	44	6.7	.....	ene.	.....	.....	5	.....	9	.....	e.	8 h'r	8 h'r	.....	.....	raining.
S. S. Ptolemy, N. 42° 54′, W. 11° 09′	30.33	770.4	56.7	13.7	89	ssw.	.....	.....	4	cs	10 ks	s.	.....	.....	.....	con.	sw.	drizzling.
S. S. Sirius, S. 3° 30′, W. 36° 00′ *	29.95	760.7	.....	.....	.....	ese.	.....	.....	3	.....	1	.....	ese.	0	0	mod	ese.	clear.
S. S. Virginian, N. 51° 56′, W. 7° 15′*	30.43	772.9	53	11.7	.....	sw.	.....	.....	3	.....	8	.....	ssw.	0	0	light	w.	cloudy.
S. S. Colorado, N. 25° 08′ W. 80° 05′†	30.15	765.8	73	22.8	.....	e.	.....	.....	5	.....	1	.....	e.	0	0	mod.	e.	clear.
S. S. Rio Grande, N. 40° 27′, W. 73° 51′†	30.24	768.1	23	−5.0	.....	ne.	.....	.....	4	.....	10	.....	nne.	snow	snow	short	ese.	snowing.
S. S. San Marcos, S. 28° 42′, W. 93° 00′	30.01	762.2	65	18.3	.....	s.	.....	.....	4	.....	10	.....	s.	hv'y	hv'y	sm'h	.....	heavy rain.
S. S. Archimede, Marseilles, France†	30.20	767.1	52	11.1	60	nnw.	.....	.....	2	.....	2	.....	nw.	0	0	.....	.....	clear.
S. S. Hermod, N. 48° 29′, W. 30° 20′†	29.67	753.6	39	3.9	.....	w.	.....	.....	6	.....	6	.....	w.	4 h'r	4 h'r	high	sw	squally.
S. S. Alleghany, Norfolk, Va †	30.18	766.6	34	1.1	.....	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	dense fog.
S. S. Glenfyne, N. 20° 32′. W. 58° 42′	.....	.....	.....	.....	.....	ese.	.....	.....	5	.....	10	.....	ese.	2 h'r	2 h'r	r'gh	ese.	heavy rain.
S. S. Dominion, N. 51° 32, W. 11° 54′ *†	30.31	769.9	52	11.1	.....	s.	.....	.....	5	.....	2	.....	s.	0	0	mod.	w.	fine.
S. S. Chalmette, N. 29° 10′, W. 89° 15′†	30.06	763.5	74	23.3	.....	ssw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	.....	foggy.
S. S. Lone Star, N. 37° 25′, W. 74° 42′ †	30.05	763.3	43	6.1	.....	n.	.....	.....	2	.....	10	.....	.....	rain	rain	mod.	ne.	light rain.
S. S. Denmark, New York, N. Y†	30.14	765.5	21	— 6.1	.....	n.	.....	.....	4	.....	10	.....	n. .	snow	snow	.....	.....	overcast.
S. S. Egypt, Liverpool, Eng*†	30.48	774.2	31	— 0.6	.....	n.	.....	.....	6	.....	fg.	.....	.....	0	0	.....	.....	d. clouds.
S. S. England, N. 48° 48′ W. 30° 24′	29.62	752.3	.....	.....	.....	wsw.	.....	.....	6	.....	fg.	.....	wsw.	shr's	shr's	high	w.	cloudy†
S. S. Erin, Liverpool, Eng*†	30.48	774.2	31	−0.6	.....	n.	.....	.....	6	.....	fg.	.....	.....	.....	.....	.....	.....	dense fog.
S. S. Greece, N. 49° 48′, W. 14° 55′	29.95	760.7	53	11.7	.....	sse.	.....	.....	6	.....	8	.....	s.	2 h'r	2 h'r	h'vy	sw.	cloudy .
S. S. Helvetia, New York, N.Y	30.14	765.5	22	−5.6	.....	nne.	.....	.....	5	.....	10	.....	ne.	snow	snow	.....	.....	overcast.
S. S. Santiago, N. 24° 13′ W. 73° 30′	30.15	765.8	77	25.0	91	e.	.....	.....	3	.....	3	.....	se.	1 h'r	1 h'r	sm'h	.....	fine
S. S. City of Alexandria, N. 19° 30′, W. 94° 38′ †	29.98	761.5	76	24.4	91	calm	.....	.....	0	.....	5	.....	ne.	0	0	small	ene.	fair.
S. S. City of Merida, N. 34° 15′. W. 76° 30′†	30.11	764.8	78.8	26.6	.....	nw.	.....	.....	2	.....	10	.....	sw.	1 h'r	1 h'r	mod.	ne.	cloudy.
S. S. City of Washington, N. 18° 44′, W. 92° 41′†	30.03	762.7	75	23.9	.....	e.	.....	.....	2	.....	5	.....	.....	0	0	sm'h	.....	fine.
S. S. Alps, N. 29° 30′, W. 74° 11′	30.31	769.9	76	24.4	.....	ssw.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Alpin, N. 31° 10′, W. 80° 20′	30.24	768.1	40	4.4	.....	ssw.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	ne.	cloudy.
S. S. Braunschweig, S. 33° 32′, W. 51° 17′	29.83	757.7	77.0	25.0	82	se.	.....	.....	3	.....	8	.....	nw.	8 h'r	8 h'r	sli't	n.	cloudy.
S. S. Donau, N. 41° 52′, W. 61° 26′	30.24	768.1	.....	.....	.....	nw.	.....	.....	5	.....	10	.....	nnw.	snow	snow	mod.	nw.	cloudy.
S. S. Neckar, N. 50° 03′, W. 24° 32′	29.78	756.4	52.0	11.1	66	w.	.....	.....	6	.....	0	.....	w.	2 h'r	2 h'r	h'vy	w.	fair.
S. S. Sailer, Brouwershaven, Netherlands*†	30.52	775.2	.....	.....	.....	se.	.....	.....	4	.....	5	.....	se.	0	0	.....	.....	fair.
S. S. Strassburg, S. 19° 58′ W. 39° 04′	30.19	766.8	78.0	25.6	86	ne to e.	.....	.....	2–3	.....	3	....	ne.	0	0	mod.	ne.	clear.
S. S. Werra, N. 50° 15′, W. 13° 08′.	30.19	766.7	52.7	11.5	.....	sse.	.....	.....	6	.....	0	.....	ese.	0	0	high	sse.	covered.
S. S. Belgic, N. 35° 01′, E. 166° 16′*†	29.77	756.1	61	16.1	77	wsw.	.....	.....	5	.....	5	.....	w.	3 h'r	3 h'r	mod.	w.	fair.
S. S. Coptic, N. 26° 01′, W. 121° 17′	30.36	771.1	50.5	10.3	93	ne.	.....	.....	6	.....	7	.....	ne.	0	0	mod.	ne.	cloudy.
S. S. Gaelic, N. 34° 54 , E. 162° 05′	30.03	762.7	57	13.9	100	nw.	.....	.....	5	.....	3	.....	wnw.	0	0	.....	nw.	clear.
S. S. Oceanic, N. 47° 53′, W. 178° 30′*	29.30	745.7	35	1.7	90	wsw.	.....	.....	4	.....	4	.....	w.	.....	.....	mod.	wsw.	snowing.
S. S. City of Augusta, Savannah, Gaf	30.11	764.8	.....	.....	.....	nne.	.....	.....	r	.....	0	.....	.....	0	0	.....	.....	foggy.
S. S. Mississippi, Seattle, Wash. Ter *†	30.00	762.0	48	8.9	.....	s.	.....	.....	2	.....	10	.....	ssw.	.....	.....	.....	.....	cloudy.
S. S. Willametta, N. 38° 42′, W. 123° 45′ †	30.44	773.2	47	8.3	92	se.	.....	.....	4	.....	6	.....	se.	0	0	long	wnw.	foggy.
S. S. Oregon, San Francisco, Calf	30.29	769.4	50	10.0	79	calm	.....	.....	0	.....	8	. . ..	sw.	.....	.....	.....	.....	cloudy.
S. S. Ancon, N. 35° 17′, W. 120° 57′†	30.29	769.4	51	10.6	72	nne.	.....	.....	4	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. City of Chester, Eureka, Cal *†	30.30	769.6	30	2.2	46	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
S. S. G. W. Elder, Tacoma, Wash. Ter †	30.05	763.3	45	7.2	84	calm	.....	.....	0	.....	4	.....	.....	8 h'r	8 h'r	.....	.....	fair.
S. S. State of California, Portland, Oregon†	30.00	763.5	40	4.4	91	nw.	.....	.....	2	.....	10	.....	nw.	.....	.....	.....	.....	raining.
S. S. Victoria, Oakland, Cal*†	30.42	772.7	80	10.0	.....	ene.	.....	.....	3	.....	2	.....	nne.	.....	.....	.....	.....	fair.
S. S. City of New York, S. 19° 50′, W. 173° 12′†	29.85	758.2	80	26.7	78	nnw.	.....	.....	2	.....	2	.....	n.	1 h'r	1 h'r	h'vy	n.	fair.
S. S. City of Sydney, S. 27° 03′ W. 177° 32′ †	29.87	758.7	74	23.3	86	se.	.....	.....	3	.....	8	.....	se.	0	0	mod.	sse.	cloudy.
S. S. City of Tokei, Hong Kong, China†	30.38	771.6	48	8.9	?	nw.	.....	.....	3	.....	1	.....	nw.	0	0	small	nw.	clear.
S. S. Colima, San Jose, Guatemala, C. A †	29.94	760.5	73	22.8	100	n.	.....	.....	4	.....	2	.....	calm	0	0	sm'h	se.	clear.
S. S. Grenada, Mazatlan, Mexico †	30.00	762.0	67	19.4	79	n.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	nnw.	clear.
S. S. San José, N. 8° 54′, W. 79° 30′*†	29.88	758.9	.....	.....	.....	ne.	.....	.....	2	2 c	0	nne.	.....	0	0	long	sw.	
S. S. Zealandia, Sydney, N. S. W*	30.01	762.2	68	20.0	90	e.	.....	.....	4	.....	1	.....	sw.	.....	.....	.....	.....	fine.
S. S. Muriel, N. 19° 40′, W. 64° 00′*	30.09	764.3	80	26.7	.....	e.	.....	.....	4	.....	0	.....	.....	0	0	r'gh	e.	clear.
S. S. Caracas, N. 30° 27′. W. 70° 10′ †	30.32	770.1	72.5	22.5	72	wsw.	.....	.....	5	.....	5	.....	sw.	1 h'r	1 h'r	mod.	n.	fair.
S. S. Valencia, off Curacoa, W. I†	30.11	764.8	80	26.7	78	ese.	.....	.....	5	.....	3	.....	e.	0	0	mod.	ese	fine.
S. S. Belgenland, Antwerp, Belgium	.....	.....	43	6.1	83	e.	.....	.....	3	.....	7	.....	e.	12 h'r	12 h'r	.....	.....	clearing.
S. S. Nederland, N. 49° 50′, W. 09° 29′ †	30.31	769.9	30	— 1.1	.....	e.	.....	.....	4	.....	10	.....	.....	.....	.....	mod.	e.	misty.
S. S. Pennland, Antwerp, Belgium	30.43	772.9	43	6.1	83	e.	.....	.....	3	.....	10	... .	e.	6 h'r	6 h'r	.....	.....	overcast.
S. S. Rhynland, N. 49° 50′, W 31° 00′	29.46	748.3	44	6.7	68	w.	.....	.....	7	.....	6	.....	w	2 h'r	2 h'r	con.	w.	squally.
S. S. Switzerland, N. 49° 39′, W. 31° 03′†	29.61	752.1	.....	.....	.....	sww.	.....	.....	4	.....	5	.....	ssw.	snow	snow	long	ssw.	fair.
S. S. Waesland, Jersey City, N. J	30.24	768.1	25	— 3.9	.....	n.	.....	.....	4	.....	10	.....	n.	0.09	2.3	.....	.....	cloudy
S. S. Maas, N. 41° 06′, W. 58° 18′	30.15	765.8	39.2	4.0	.....	nne.	.....	.....	4	.....	10	.....	.....	3½ h'r	3½ h'r	3	n.	
S. S. Schiedam, N. 49° 11′, W. 23° 13′	29.80	756.9	54.1	12.3	76	w.	.....	.....	6	.....	4	.....	w.	4 h'r	4 h'r	hv'y	w.	fair.
S. S. W. A. Scholten, N. 45° 54′, W. 44° 42′	29.77	759.1	31.4	— 0.3	100	wsw.	.....	.....	6	.....	7	.....	w.	snow	snow	long	w.	fair.
S. S. State of Florida, Larne, Ireland	30.31	769.9	49	9.4	.....	sw.	.....	.....	3	.....	2	.....	calm	0	0	.....	.....	clear.
S. S. State of Georgia, N. 56° 00′, W. 19° 42′†	29.51	749.5	47	8.3	.....	w.	.....	.....	4	.....	10	.....	sw.	0	0	hv'y	var.	
S. S. State of Indiana, N. 41° 22′, W. 63° 11′†	30.29	769.4	28	−2.2	.....	ne.	.....	.....	3	.....	7	.....	ene.	2 h'r	2 h'r	sm'h	.....	cloudy.
S. S. Baltic, N. 50° 21′, W. 22° 17′ *	29.69	754.1	55	12.8	80	wsw.	.....	.....	6	.....	8	.....	sw.	6 h'r	6 h'r	h'vy	sw;w	d. clouds.
S. S. Ge manic, N. 51° 41′, W. 14° 06′†	30.16	760.1	55	12.8	.....	sww.	.....	.....	6	.....	9	.....	sw.	0	0	r'gh	ssw.	d. clouds.
S. S. Romano, N. 49° 09′, W. 22° 22′ *†	29.85	758.2	51	10.6	.....	wsw.	.....	.....	6	.....	7	.....	wsw.	3 h'r	3 h'r	r'gh	wsw.	dull.
S. S. Salerno, N. 46° 14′, W., 44° 09′	29.69	754.1	25	−3.9	.....	wnw.	.....	.....	6	.....	10	... .	wnw.	3 h'r	3 h'r	h'vy	wnw.	snow & hail.
S. S. Aries, N. 39° 50′, W. 73° 50′*†	30.15	765.8	.....	.....	.....	nne.	.....	.....	5	.....	10	.....	.....	snow	snow	h'vy	ne.	
S. S. Catherine Whiting, Providence, R. I†	30.23	767.8	.....	.....	.....	ne.	.....	.....	1	.....	.....	.....	.....	snow	snow	.....	.....	
S. S. Norman, N. 39° 46′, W. 74° 20′ †	30.06	763.5	.....	.....	.....	nne.	.....	.....	5	.....	.....	.....	n.	driz	driz	h'vy	ene.	dense fog.
S. S. Saxon, Boston, Mass †	30.13	765.3	10	−8.9	.....	nnw.	.....	.....	3	.....	10	.....	.....	4 h'r	4 h'r	.....	.....	snowing.
MISCELLANEOUS.																		
Schr. Abbie H. Gheen, Mayport, Fla †	30.17	766.3	65	18.3	.....	sw.	.....	.....	1	.....	1	.....	sw.	0	0	.....	.....	foggy.
Bk. Adelaide, N. 5° 09′, W. 30 10′*†	30.02	762.5	79	26.1	.....	ene.	.....	.....	4	.....	10	.....	var.	3 h'r	3 h'r	mod.	ene.	raining.
Bk. Alpha, N. 9° 30′, W. 47° 20′*†	30.05	763.3	78	25.6	.....	e.	.....	.....	5	.....	3	.....	e.	0	0	sm'h	.....	fair.
Schr. Annie Holton, N. 22° 23′, W. 96° 46′†	30.03	762.7	78	25.6	.....	calm	.....	.....	0	.....	2	....	.....	0	0	mod.	e.	clear.
Bk. Anna Thormann, S. 32° 11′ E. 13° 08′	30.18	766.6	66.2	19.0	62	sse.	.....	.....	5	.....	9 k	.....	s.	0	0	long	ssw.	cloudy.
S. S. Antonio Lopez, Cadiz, Spain	30.31	769.9	59.5	15.3	65	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	hazy.
Bk. Aquidneck, N. 27° 00′, W. 66° 58′*†	30.40	772.1	80	26.7	.....	ne to e.	.....	.....	2	.....	.....	.....	.....	0	0	.....	.....	clear.
Bgt. Arthur, N. 0° 18′, W. 17° 55′ *†	30.02	762.5	.....	.....	.....	se.	.....	.....	3	.....	.....	.....	se.	0	0	mod.	var.	fair.
Bk. B. F. Watson, N. 19° 23′, E. 128° 39′†	30.03	762.7	77	25 0	.....	ne.	.....	.....	5	.....	1	.....	.....	6 h'r	6 h'r	mod.	ne.	clear.
Bg. Belle of the Bay, Galveston, Texas†	30.03	762.7	.....	.....	.....	n.	.....	.....	3	.....	.....	.....	.....	2 h'r	2 h'r	.....	.....	raining.
Bk Bremen, N. 49° 44′, W. 3° 30′ *	30.44	773.2	.....	.....	.....	nw.	.....	.....	4	.....	2	.....	.....	0	0	h'vy	wsw.	clear.
S. S. Burswell, N. 49° 02′, W. 48° 56′.*†	29.94	760.5	52	11.1	.....	nnw.	.....	.....	3	.....	10	.....	nw.	5 h'r	5 h'r	light	nw.	dull.
Bk. Champion, Philadelphia, Pa	.....	.....	37.0	2.8	.....	no.	.....	.....	4	.....	10	.....	ne.	16 h'r	16 h'r	.....	.....	fair.
Bk. Commerce, N. 38° 48′, W. 46° 40′ †	30.02	762.5	53	11.7	.....	wnw.	.....	.....	5	.....	10	.....	wnw.	6 h'r	6 h'r	long	wnw.	squally.
Bk. E. D. Bigelow, N. 48° 49′, W. 9° 08′*†	30.30	769.6	.....	.....	.....	ssw.	.....	.....	4	.....	7	.....	ssw.	0	0	long	w.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Schr. Edith R. Seward, Wilmington, N. C†	30.05	763.3	50	10.0		nnw.			1		7			12 h'r	12 h'r			stormy.
Bk. Edmund Phinney, N. 5° 12′, W. 31° 10′ †	30.01	762.2	76	24.4		e.			6		10			rain	rain	r'gh		raining.
S. E. J. Spicer, Liverpool, Eng.	30.36	771.1	50	10.0	93	wsw.			3		7?		sw.	6 h'r	6 h'r			clear.?
Bk. E. L. Pettingill, S. 25° 41′, W. 120° 21′*†	30.00	762.0	78	25.6		nnw.			4		5		nw.	0	0	mod	ssw.	
Bk. Essex, Majambo, Madagascar*†	29.91	759.7	90	32.2		nnw.			5					sq 'lls	sq 'lls		nw.	
Schr. F. E. McDonald, N. 30° 59′, W. 80° 56′†	30.07	763.8	58	14.4		s.			1		7			0	0	sm'h	e.	foggy.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†	30.15	765.8	32	0.0		nne.			1		10		calm					cloudy.
S. S. Foscolia, N. 50° 40′, E. 0° 44′						n.			3		8		n.	0	0	cross		misty.
Bk. Freya, Matanzas, Cuba, W. I.			71	21.7		calm			0		1			0	0			clear.
Bg. George, Ponce, Porto Rico, W. I*†	30.20	767.1				ne.			1		2			0	0	mod.		clear.
S. Geo. Stetson, N. 16° — W. 33° — *†	30.16	766.1	73	22.8	90	e.			4		2?		e.	0	0	chop	ne.	cloudy.?
Bk. Gronsvaer, Auckland, N. Z.	30.04	763.0	70.0	21.1		nw.			4		2		nw.	0	0			fair.
Bk. Hattie G. McFarland, Demerara, Brit. Guiana*†.	30.10	764.5	78	25.6		e.			6		8		e.	5 h'r	5 h'r			squally.
Schr. Hattie Weston, N. 30° 22′, W. 62° 20′ *†	30.30	769.6	65	18.3		wsw.			4		8		w.	1 h'r	1 h'r	mod.	wsw.	cloudy.
S. Hedwig, N. 41° 41′, W. 42° 31′	29.92	760.0	47.8	8.8		wnw.			8		10		wnw.	4 h'r	4 h'r	5	nw.	stormy.
Schr. Isabel Alberto, Jersey City, N. J. †	30.22	767.6				ne.			4		10		e.	rain	rain			cloudy.
Bk. Johanne, N. 49° 57′, W. 1° 18′*†	30.45	773.4	49	9.4		nw.			5		5		nw.	4 h'r	4 h'r	mod.	nnw.	fine.
Schr. John L. Thomas, N. 28° 42′, W. 67° 28′*†	30.30	769.6				sw.			2		2		se.	0	0	mod.	se.	fine.
Bkt. Josephine, N. 0° 41′, W. 27° 08′†	29.98	761.5	82	27.8	75	se.			5		10		se.	0	0	sm'h		cloudy.
S. S. J. W. Wilson, Port Eads, La*†	30.00	762.0	68	20.0		ssw.			1		fg			0	0			foggy.
Light House Tender, Laurel, Key West, Fla†	30.12	765.0	74	23.3		ese.			2		3		se.	0	0			clear.
Bg. Lilian, N. 11° 55′, W. 57° 23′†	30.17	766.3	80	26.7		ene.			6		5		ene.	1½h'r	1½h'r	h'vy	var.	squally.
Bk. Louise Adelaide, Vera Cruz, Mexico						wnw.			1		4			0	0		nne.	fine.
Bg. L. & W. Armstrong, N. 28° 47′ W. 70° 23′*†	30.30	769.6				ssw.			1		1		s.	0	0	sm'h	se.	fine.
S. S. Malabar, N. 39° 16′, E. 5° 42′*†	30.27	768.8				n.			7		8		n.	0	0	hv'y	n.	cloudy.
Schr. Minnie A. Bonsall, Jacksonville, Fla†	30.20	767.1	69	20.6		ssw.					fg							foggy.
S. Minnie N. Gerow, N. 35° 40′, W. 70° 05′ *†	30.06	763.5				nnw.			2		10		n.			mod	nw.	drizzling.
S. M. P. Grace. S. 45° 15′, W. 40° 45′ *	29.58	751.3	52	11.1		w.			3–6		6		wnw.	0	0	sm'h	wsw.	fine.
Bg. Myrtle, N. 28° 41′, W. 59° 02′						wsw.			2		0			0	0	sm'h		fair.
Bkt. Norena, N. 26° 46′, W. 77° 10′*†	30.29	769.4				se.			2		1		se.	0	0			fine.
Bg. O. C. Clary, Miragoane, Hayti, W. I.*†	30.06	763.5	82	27.8	91	calm			0		0							
Bk. Ottawa, N. 37° 15′, W. 0° 50′*	30.34	770.6	60	15.6		calm			0		1		wsw.	0	0	sm'h		clear.
S Paramita, San Francisco, Cal.			48	8.9		n.			2					0	0			clear.
Schr. Pearl Nelson, Hampton Roads, Va*†	30.19	766.8	38	3.3		ne.			6		10		ne.	rain	rain			rain & fog.
S. S. Raleigh, Kingston, Jamaica, W. I*†	30.00	762.0	80	26.7		ese.			1		8		se.	0	0	sm'h		
Bk. Reindeer, N. 29° 08′, W. 62° 25′*	30.11	764.8				sw.			1		9		w.	0	0	long	n.	
S. Rudolph, N. 52° 37′, E. 3° 47′			35.3	1.8		ese.			3		4		s.	3 h'r	3 h'r	mod	ene.	hazy.
Schr. S. B. Hubbard, Jacksonville, Fla*†	30.33	770.4	68	20.0		calm			0		10			0	0			foggy.
Bk. Scud, N. 32° 57′, W. 62° 19′*†	30.21	767.3	70	21.1		wnw.			5		5		nw.	driz.	driz.	mod.	n.	clearing.
Bk. Southern Belle, N. 35° 25′, W. 23° 30′ *†	30.07	763.8	64	17.8		ssw.			3		10			0	0	mod.	ssw.	cloudy.
S. Sovereign of the Seas, N. 9° 15′, W. 117° 30′*†	29.98	761.5	78	25.6	100	ene.			5–6		7		var.	20 h'r	20 h'r	cross	var.	showery.
Bk. Sunbeam, N. 40° 58′, W. 16° 30′*†	30.20	767.1	60	15.6	88	ssw.			6		10		sw.	12 h'r	12 h'r	cross	w.s	cloudy.
S. S. Sunbeam, N. 29° 09′, W. 89° 25′	30.03	762.7	65.5	18.6	100	ssw.			2		10		ssw.	0	0			foggy.
S. Titan, N. 35° 11′, W. 55° 07′*†	30.14	765.5	62	16.7	94	sse.			1		10		s.	rain	rain	long	nw.	cloudy.
Bk. Vincenzo Accame, N. 36° 44′ W. 74° 29′			56	13.3		nne.			3		10		nne.	9½h'r	9½h'r		ene.	rainy.
Bk. Wandering Jew, Montevideo, Uruguay †	29.88	758.9	81	27.2		s.			4		7		s.	3 h'r	3 h'r			fair.
Schr. Wm. Wiler, St. John's River, Fla†	30.16	766.1				calm			0		fg.			0	0			dense fog.
Bk. Xenia, N. 36° 12′, W. 62° 15′*†	30.08	764.0	64	17.8		wnw.			4		5		w.	6 h'r	6 h'r	mod.	w.	fair.

International Chart I. January 6, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B.Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 7, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer, corrected for instrumental error and for temperature.		Barometer, reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.33	770.4	62.2	16.8	88	s.	.....	.....	2	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.33	770.3	60.1	15.6	75	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	Thève.
La Calle	.....	.....	30.29	769.3	58.6	14.8	76	s.	.....	.....	4	.....	5	.....	.....	0.236	6.0	cloudy	Fonfréde.
Tunis	.....	.....	30.28	769.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.35	770.9	65.5	18.6	55	se.	.....	.....	2	.....	3	.....	.....	0	0	pretty fair	Pérès.
Tebessa	.....	.....	30.34	770.7	47.5	8.6	73	w.	.....	.....	1	.....	2	.....	.....	0	0	fair	Dognon.
Geriville	.....	.....	.....	.....	57.6	14.2	72	sw.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Lonchamp.
Laghouat	.....	.....	30.42	772.6	57.2	14.0	32	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.36	771.2	60.1	15.6	46	nw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.96	761.0	30.05	763.3	58.5	14.7	96	ssw.	18	8.0	.....	.....	10	.....	.....	0.14	3.6	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.93	760.3	30.53	775.5	24.1	— 4.4	69	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	29.69	754.0	30.52	775.3	18.0	— 7.8	89	nnw.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.50	750 9	30.53	775.5	16.2	— 8.8	64	calm	.....	.....	0	0	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.17	741.0	30.53	775.5	21.2	— 6.0	59	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.94	735.1	30.54	775.6	10.0	—12.2	100	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.96	735.6	30.42	772.6	20.8	— 6.2	71	e.	.....	.....	2	c	4 k	.....	.....	0	0	.....	The Staff.
Lemberg	29.39	746.6	30.47	774.0	18.7	— 7.4	72	nw.	.....	.....	1	.....	2	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.82	681.2	30.46	773 7	19.0	— 7.2	78	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.24	768.1	30.36	771.1	35.1	1.7	64	ene.	.....	.....	4	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	30.01	762.3	30.48	774.1	17.2	— 8.2	85	n.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	30.22	767.6	30.53	775 4	20.8	— 6.2	56	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.21	767.3	30.31	769.8	30.6	— 0.8	85	ne.	.....	.....	5	.....	7	.....	.....	0	0	.....	Royal Academy.
Vienna	29.72	754 9	30.50	774 7	21.9	— 5.6	51	se.	.....	.....	3	.....	1	.....	.....	0	0	.....	I. R. Central Met. Obs'
British.																			
Aberdeen	30.30	769.6	30.40	772.1	34.6	1.4	87	w.	4	1.8	.....	.....	1	.....	.....	0.010	0.3	misty	W. Boswell
Armagh, Observatory	30.16	766.1	30.41	772 4	44.3	6.8	84	se.	8	3.6	.....	.....	.....	.....	.....	.....	.....	.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.44	773.2	39.9	— 0.6	99	se.	17	7.6	.....	10	.....	.....	.....	.....	.....	foggy	John Hartnup.
Bolton, Sharples	29.89	759.2	30.44	773 2	35.0	1.7	95	nne.	.....	.....	.....	10	.....	.....	.....	.....	.....	foggy	Thomas Mackereth.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	McLandsborough&Preston
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	81.0	27.2	70	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H C.
Cardington	.....	.....	.....	.....	39.2	4.0	90	e.	.....	.....	0.4	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E	30.31	769.9	30.45	773.4	39.3	4.1	82	e.	.....	.....	2	.....	9	.....	.....	.....	.....	gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	30.14	765.5	30.37	771.4	44.0	6.7	88	e.	.....	.....	3	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.50	698.5	29.73	755.1	84.0	28.9	46	w.	.....	.....	2	.....	3	.....	.....	.....	.....	blue sky	Corpl. F. Milner, A. H. C.
Galway	30.18	766.0	30.22	767.6	47	8.3	77	s.	.....	.....	2	.....	2	.....	.....	0	0	d. clouds	Wm Ryan.
Gibraltar, Mediterranean	30.19	766.8	30.24	768.1	60.0	15.6	95	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	d. clouds	Sgt. J. Norris, A. H C.
Glasgow, Observatory	30.17	766.3	30.38	771.6	42.2	5.7	83	s.	.....	.....	1	.....	9 k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.27	768.8	30.45	773.4	39.9	4.4	77	ene.	.....	.....	1	.....	9	.....	.....	.....	.....	overcast	The Staff.
Guernsey	30.05	763 3	30.30	770.1	43.0	6.1	90	ne.	.....	.....	1	.....	10	.....	.....	.....	.....	drizzling	A. Collenette, F. M. S.
Kew, Observatory	30.42	772.7	30.45	773.4	39.7	4.3	69	ne.	12	5.4	.....	.....	8	.....	.....	.....	.....	misty	The Staff.
Leicester, Museum	30.24	768.1	30.51	774 9	37.0	3.1	96	ne.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.93?	760.2?	30.00?	762.0?	57.6	14.2	68	nw.	.....	.....	2	.....	3	.....	.....	0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.10	764.5	30.15	765 8	72.5	22.5	95	s.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	C. S. Duncombe
Oscott, St. Mary's College	29.92	760.0	30.47	773.9	34.0	1.4	75	ene.	.....	.....	3	.....	fg.	.....	.....	.....	.....	foggy	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	30.22	767.0	30.45	773.4	38.7	3.7	89	ene.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	The Staff.
Plymouth	30.32	770.1	30.40	772.1	42.0	5.6	83	ene.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.24	768.1	30.34	770.6	40.9	4.9	93	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L L D.
Scutari Cemetery, Turkey	30.40	772.1	30.47	773 9	30.0	— 0.8	94	ne.	.....	.....	2	.....	6	.....	.....	blank	blank	d. clouds	W. H. Lyne.
Sheffield	30.18	766.6	30.48	774.2	35.8	2.1	93	ssw.	.....	.....	1	.....	8	.....	.....	0	0	misty	W. F. Cooper.
Silloth Rectory	30.40	772.1	30.43	772.9	40.8	4.9	86	se.	.....	.....	1	.....	0	.....	.....	0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.45	773.4	34.2	1.2	90	nne.	3	1.3	.....	.....	7	.....	.....	.....	.....	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	30.21	767.3	30.44	773.2	39.0	4.2	89	ne.	.....	.....	1	.....	7	.....	.....	.....	.....	foggy	Rev. C. H. Grafton, F. M. S.
Truro, Royal Institution	30.30	769.6	30.34	770.6	46	7.8	76	se.	.....	.....	4	.....	5	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.18	766.0	30.21	767 3	47.0	8.7	77	se.	46	20.6	.....	.....	0	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.05	763.3	30.09	764.3	— 2	—18.9	90	se.	2	0.9	.....	3 cs	3 s	w.	calm	0	0	fair	H. J. Cundall, C E
Chatham, N. B*	30.00	762 0	30.07	763.8	— 5	—20.6	87	nw.	1	0.4	.....	2 cs	8 s	nw.	nw.	0	0	cloudy	G. A. Blair.
Cornwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Dalhousie	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Father Point, Quebec*	29.85	758 2	29.88	758.9	— 3	—19.4	79	ne.	8	3.6	.....	.....	10 n	.....	.....	0.10	2.5	light snow	J. McWilliams.
Fort Garry, Manitoba*	29.27	743.4	30.28	769.1	—30	—34.4	100	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	29.91	759.7	30.05	763.3	11	—11.7	100	ne.	6	2.7	.....	.....	10 n	.....	.....	0.050	1.3	light snow	A. Allison.
Kingston, Ontario*	29.30	744 2	29.66	753.4	12	—11.1	96	n.	3	1.3	.....	.....	10 n	.....	.....	Inap.	Inap.	light snow	A. P. Knight, M A
Montreal, Quebec*	29.45	748 0	29.68	753.9	9	—12.8	83	n.	6	2.7	.....	.....	10 n	.....	.....	0.23	5.8	light snow	C. H. McLeod, C E.
Parry Sound, Ontario*	28.89	733.8	29.01	752.1	24	— 4.4	88	w.	17	7.6	.....	.....	10 n	.....	w.	0.27	6.9	cloudy	Rev R. Mosley.
Port Dover, Ontario	29.60	738.1	29.78	756 4	28	— 2.2	100	sw.	16	7.2	.....	.....	10 n	.....	.....	0.10	2.5	threatening	H. Morgan.
Port Stanley, Ontario	29.11	739.4	29.78	756.4	28	— 2.2	88	w.	14	6.3	.....	.....	10 n	.....	w.	Inap.	Inap.	light snow	M. Payne.
Quebec, Quebec*	29.43	747.5	29.79	756.7	5	—15 0	100	e.	.....	.....	8	.....	10 n	.....	.....	0.40	10.2	heavy snow	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.11	739.4	29.01	752.1	4	—15.6	87	e.	6	2.7	.....	.....	10 n	.....	.....	0.20	5.1	light snow	W. H. McIntyre.
Saugeen, Ontario*	28.92	734.6	29.66	753.4	26	— 3.3	88	w.	30	13.4	.....	.....	10 s	.....	.....	0.20	5.1	light snow	
St. Andrews, N. B	29.88	758 9	29.93	760.2	16	— 8.6	91	e.	3	1.3	.....	.....	10 n	.....	.....	0.02	0.5	light snow	
Sydney, C. B*	30.09	764.3	30.15	765.8	1	—17.2	100	sw.	5	2.2	.....	2 cs	8 s	.....	nw.	0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.30	744.2	29.70	754 4	26	— 3.3	92	sw.	12	5.4	.....	.....	10 n	.....	.....	0.02	0.5	light snow	Magnetic Observatory.
Yarmouth, N. S*	29.82	757.4	29.89	759.2	21	— 0.1	80	e.	1	0.4	.....	.....	10 n	.....	.....	0.12	3.0	light snow	Lt. F. E. Wilmot, R N.
Cape Colony.																			
Cape St Francis Lt. House	29.84	757.9	29.87	758.7	72.0	22.2	89	wsw.	13.7	6.1	.....	0	1 8	.....	.....	0	0	hazy	John Duthie.
Springbok Fontein	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	OBSERVERS
CHINESE (*Sub-series*).																			
Sung-shu-chwang	24.56	623.7	.....	.....	19.2	— 7.1	.....	nw.	.....	.....	2	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.39	771.8	30.50	774.6	23.2	— 4.9	88	sw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	
Zi-Ka-Wei, near Shanghai	30.43	772.8	30.45	773.4	32.9	0.5	67	calm	0	0	.....	0	0	.....	.....	0	0	.....	Mission, S. J.
DANISH.																		clear	M. Marc Dechevrens, S.J
Copenhagen	30.34	770.5	30.38	771.7	29.1	— 1.6	92	w.	16	7	.....	.....	10	.....	.....	.....	.....	0	0
Fanoe	30.43	773.0	30.45	773.5	30.4	— 0.9	92	sw.	.....	.....	2	.....	9	.....	.....	.....	.....	snowing	Oversergent Fischer.
Godthaab, Greenland	29.33	744.9	29.37	746.0	13.6	—10.2	90	nnw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Ivigtut, Greenland	29.26	743.1	29.28	743.6	13.5	—10 3	.....	calm	.....	.....	0	.....	3	.....	.....	.....	.....	.....	S. Kleinschmidt.
Jacobshavn, Greenland	29.29	743.9	29.34	745.1	6.1	—14.4	.....	s.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.63	752.5	29.67	753.6	35.2	1.8	91	s.	.....	.....	6	.....	8	.....	.....	.....	.....	.....	
Thorshavn	30.14	765.4	30.17	766.3	45.1	7.3	88	sw.	9	4	.....	.....	10	.....	.....	.....	.....	raining	A. O. Thorlacius.
Vestervig	30.30	769.7	30.39	772.0	37.2	2.9	96	wsw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	Overloerer Bergh.
Upernavik, Greenland	29.21	741.8	29.25	743.0	3.7	—15.7	.....	n.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.65	753.1	30.32	770.0	50.0	10	93	calm	.....	.....	0	2 c	k	.....	.....	0	0	snowing	
Alençon, Normal School	29.78	756.4	30.33	770.4	39.9	4.4	97	nne.	.....	.....	2	.....	n	sw.	sw.	0	0	.....	M. Labroue, Director.
Arras, Engineer School	30.12	765.0	30.39	771.9	36.9	2.7	95	ne.	.....	.....	1	.....	10	.....	.....	0	0	.....	M. Nicot, Director.
Avignon, Normal School	30.10	764.4	30.17	766.4	46.4	8	64	nw.	.....	.....	3	.....	0	.....	.....	0	0	covered	M. Fénéon, Commandt.
Bar-sur-Seine	29.74	755.5	30.33	770.4	37.4	3.0	86	ene.	.....	.....	1	5 ck	0	.....	.....	0	0	clear	M. Giraud, Director.
Beauvais, Normal School	30.12	765.0	30.40	772.1	39.2	4	80	ene.	.....	.....	1	.....	8	.....	.....	0.079	2.0	cloudy	M. Saillard, Director.
Besançon, Normal School	29.31	744 5	30.26	768.6	37.4	3	83	ne.	.....	.....	1	.....	n	.....	.....	0	0	very cloudy	M. Frère Eugène Marie.
Bordeaux, Observatory	30.00	762.0	30.27	768.9	42.8	6.0	72	e.	.....	.....	1	.....	1	.....	nw.	0.177	4.5	.....	M. Gobin, Director.
Bourges, Normal School	29.79	756.6	30.36	771.2	41.0	5	100	w.	.....	.....	1	.....	10 n	.....	e.	0.008	0.2	almost clear	M. Rayet, Director.
Brest, Naval Observatory	30.08	763.9	30.32	770.0	46.0	7.8	89	e.	.....	.....	2	.....	1	.....	w.	.....	.....	raining	M. Malet, Director.
Caen, Normal School	30.25	768.3	30.33	770.3	42.8	6	73	wsw.	.....	.....	1	.....	0	.....	e.	0	0	.....	M. de Kermaidé, Dir.
Châlons-sur-Marne, N.Sch'l	30.02	762.6	30.36	771.1	39.0	3.9	70	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Berson, Director.
Charleville, Normal School	29.83	757.7	30.34	770.7	39.9	4.4	56	e.	.....	.....	1	.....	0	.....	.....	0.137	4.0	clear	M. Jadot, Director.
Clermont-Ferrand Obs'y	28,85	732.7	30.25	768.6	38.3	3.5	87	n.	.....	.....	1	.....	0	.....	.....	0.028	0.7	clear	M. Grimard, Director.
Cluny, Normal School	29.37	746.0	30.25	768.3	37.8	3.2	86	n.	.....	.....	1	.....	10	.....	.....	0.008	0.2	covered	M. Alluard, Director.
Commercy, Normal School	29.46	748.2	30.36	771.2	32.4	0.2	98	e.	.....	.....	2	.....	fg	.....	n.	0.063	1.6	foggy	M. de Villemontée, Dir.
Gap, Normal School	27.56	700.0	30.20	767 0	36.5	2.5	73	ne.	.....	.....	1	.....	10 n	e.	e.	0.031	0.8	covered	Dr. Conlet, Director.
Gréasque, du Rhone	28.99	736.3	30.14	765.6	46.9	8.3	51	ne.	.....	.....	1	.....	1 cu	.....	w.	0.087	2.2	.....	M. Jeangirard, Director.
Grenoble, Normal School	29.45	748.0	30.26	768.6	36.0	2.2	89	e.	.....	.....	1	.....	3	.....	sw.	0	0	.....	M. Klun, Director.
Guéret	28.65	727.6	30.26	768.6	35.2	1.8	96	nw.	.....	.....	1	.....	ckn	.....	.....	0	0	.....	M. Ablard, Director.
Lamballe, Normal School	30.16	766.0	30.43	773.0	43.7	6.5	79	n.	.....	.....	2	.....	10	.....	n.	0.059	1.5	raining	M. Delorme, Dir.
Lescar, Normal School	29.61	752.0	30.17	766.4	54.0	12.2	88	ne.	.....	.....	1	.....	8	.....	n.	0	0	gloomy	M. Ollitrault, Director.
Lorient, Naval Observatory	30.24	768.1	30.34	770.7	45.7	7.6	72	ene.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Chauvin, Director.
Lyon, St. Genis-Laval	29.15	740.5	30.22	767 7	36.1	2.3	95	nnw.	.....	.....	2	.....	5	ne.	e.	0	0	½ covered	Lt. T. Carré, Director.
Mans, Normal School	30.03	762.7	30.35	770.9	41.9	5.5	84	ne.	.....	.....	1	.....	10 n	.....	n.	0.094	2.4	covered	M. André, Director.
Marseille, Observatory	29.88	758.9	30.15	765.9	50.4	10.2	62	w.	.....	.....	1	.....	8	.....	e.	0.031	0.8	very cloudy	M. Piboën, Director.
Montlouis	24.81	630.1	29.65	753 1	32.0	0	44	sw.	11.2	5.0	.....	.....	3	.....	w.	0	0	.....	M. Stephan, Director.
Montpellier, Normal School	30.04	763.0	30.17	766.3	50.4	10.2	93	wsw.	.....	.....	2	.....	0	.....	.....	0	0	.....	M. Caré for Dr. Finot.
Nancy, Normal School	29.47	748.5	30.30	769.5	32.0	0	78	nnw.	.....	.....	1	ck	0	.....	.....	0	0	clear	M. Galzin, Director.
Nantes, Observatory	30.20	767.0	30.36	771.1	44.4	6.9	75	nne.	.....	.....	1.2	.....	10 kn, n	.....	.....	0.161	4.1	.....	M. Hasse, Director.
Perpignan, Observatory	30.11	764.7	30.22	767.7	49.3	9.6	50	ne.	13.0	5.8	.....	.....	2	n.	nne.	0	0	.....	M. Larocque, Director.
Pic-du-Midi, Summit	21.12	536.4	.....	.....	16.7	— 8.5	.....	ne.	.....	.....	1	.....	1	.....	nw.	0	0	.....	Dr. Fines, Director.
Privas, Normal School	29.16	740.6	30.26	768.7	41.0	5	84	s.	.....	.....	1	.....	10	n.	w.	0	0	clear	M. Vaussenat.
Puy de Dôme Obs'y, Summit	25.19	639.9	.....	.....	25.9	— 3.4	100	nne.	.....	.....	3	.....	10	n.	n.	0	0	covered	M. Tatheu.
Rochefort, Naval Obs'y	30.27	768.9	30.39	769.7	43.5	6.4	94	ne.	.....	.....	1	.....	10	.....	.....	0.205	5.2	foggy	M. Alluard, Director.
Roche-sur-Yon, N. School	30.05	763.2	30.27	768.9	41.0	5	27	ene.	.....	.....	1	.....	0	.....	.....	0	0	clear	Lt. E. Decante, Director.
Rodez, Normal School	28.04	712.1	30.24	768.2	42.1	5.6	97	e.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Brotier, Director.
Rouen, Normal School	30.35	770.9	30.40	772.1	41.0	5	80	ne.	.....	.....	1	.....	kn	.....	s.	0	0	.....	M. Seger, Director.
Saint Lô	.....	.....	.....	.....	41.9	5.5	69	e.	.....	.....	1	.....	5	n.	.....	0.161	4.1	cloudy	M. Mouillot.
Saint Maur, Observatory	30.19	766.7	30.35	770.9	39 4	4.1	84	n.	.....	.....	1	.....	10	.....	e.	0	0	covered	M. Delaplanche, Dir.
Toulouse, Observatory	29.75	755.6	30.48	774.2	36.9	2.7	89	nw.	.....	.....	1	.....	10	.....	ne.	0.008	0.2	.....	M. Renou, Director.
Tours	30.13	765 2	30.30	769.7	42.4	5.8	88	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Bailland, Director.
Versailles, Observatory	29.84	757.9	30.33	770.4	38.1	3.4	93	e.	.....	.....	1	.....	10	.....	nne.	0.016	0.4	covered	M. de Tastes.
Sub-series.																			
St. Martin du Hinx	30.11	764.8	30.26	768.6	42.6	5.9	81	n.	7.8	3.5	.....	.....	0	.....	.....	0.016	0.4	.....	Dr. A. Bérigny, Director.
GERMAN.																			
Ansbach	28.87	733 3	30.44	773.1	22.6	— 5.2	60	e.	.....	.....	2	.....	1	e.	.....	0	0	clear	M. Cartier, Director.
Bamberg	29.53	750 1	30.39	771 8	28.0	— 2.2	82	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. Jnedt.
Berlin	30.31	769 8	30.47	773 8	26.8	— 2.9	57	calm	.....	.....	0	.....	4	ne.	.....	0	0	.....	Prof. Dr. Hoh.
Breslau	29.94	760.5	30.48	774.2	23.4	— 4.8	41	s.	.....	.....	2	.....	4	nnw.	.....	0	0	.....	Dr. Lensch.
Carlsruhe	29.92	759.9	30.39	771.9	29.1	— 1.6	68	ne.	.....	.....	1	.....	1	ne.	.....	0	0	.....	Royal University Obs'y.
Cassel	29.02	752.4	30.34	770.5	29.1	— 1.6	66	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	Albert Senz.
Frankfort-on-the-Main	30.04	763.1	30.43	773.0	29.5	— 1.4	58	e.	.....	.....	1	.....	5	.....	.....	0	0	.....	Dr. H. Möhl.
Friedrichshafen	28.80	731.6	30.34	770.5	27.3	— 2.6	77	ne.	.....	.....	7	.....	10	ne.	.....	0	0	.....	Physical Society.
Hamburg	30.36	771.2	30.45	773.5	25.9	— 3.4	82	calm	.....	.....	0	.....	7	.....	.....	0	0	.....	Wilhelm, Chief Tel.
Kiel	30.46	773.6	30.47	774.0	27.5	— 2.5	78	se.	.....	.....	2	.....	9	.....	.....	0	0	dense haze	E. Preller.
Leipsic, Astron'l Obs'y	30.00	762.1	30.45	773 5	25.7	— 3.5	58	se.	.....	.....	1	.....	3	.....	.....	0	0	hazy	Prof. Dr. G. Karsten.
Magdeburg	30.24	768.1	30.45	773.3	28.9	— 1.9	68	se.	.....	.....	1	0	0	.....	.....	0	0	.....	H. Leppig, Asst.
Memel	30.26	768.7	30.31	769.9	31.3	— 0.4	90	nw.	.....	.....	5	.....	10 k	.....	.....	.....	.....	.....	Weather Observatory.
Munich	28.44	722 3	30.32	770.1	20.7	— 6.3	89	e.	.....	.....	2	.....	10	ne.	.....	0	0	.....	Issermann.
Neufahrwasser	30.42	772.7	30.44	773.1	23.9	— 4.5	72	w.	.....	.....	3	.....	10	.....	.....	0	0	.....	Central Station.
Neustadt, Palatinate	29.82	757.4	30.35	770.9	30.6	— 0.8	80	ne.	.....	.....	1	.....	2	ne.	.....	0	0	.....	A. Lothes.
Stuttgart	29.39	746.4	30.34	770.6	27.5	— 2.5	72	e.	.....	.....	1	.....	1	w.	.....	0	0	.....	Dicknether.
Wustrow	30.44	773.1	30.46	773.7	28.0	— 2.2	87	w.	.....	.....	2	.....	10 s	.....	.....	0	0	.....	Prof. Dr. Schoder.
GREEK.																			
Athens	29.97	761.1	30.37	771.3	41.5	5.3	.....	n.	.....	.....	1.0	.....	9	.....	.....	0.035	0.9	covered	Profs. Brandes & Reimer,
INDIAN.																			
Kurrachee	30.06	763.5	30.11	764.8	77.9	25.5	30	ene.	18.0	8.0	.....	2	8	se.	.....	0	0	d. clouds	Schmidt & Wourlisch.
Deesa	29.52	749.8	30.00	762.0	77.7	25.4	22	n.	10.0	4.5	.....	.....	3	sw.	.....	0	0	d. clouds	
Bombay	29.93	760.3	29.97	761 2	79.7	26.5	59	nw.	12.0	5.4	.....	.....	1	.....	w.	0	0	d. clouds	
Poona, Yarrowda	28.09	713.6	29.95	760.7	80.6	27.0	24	ese.	6.0	2.7	.....	.....	1	w.	.....	0	0	d. clouds	
Belgaum	27.44	696.9	29.98	761.4	77.9	25.5	27	e.	9.0	4.0	.....	.....	3	sw.	.....	0	0	d. clouds	
Lahore	29.32	744.7	30.10	764.5	61.6	16.4	51	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	29.13	739.9	30.06	763.6	66.8	19.3	60	calm	0	0	.....	.....	0	.....	.....	0	0	.....	
Agra	29.48	748 8	30.06	763.6	70.7	21.5	43	ne.	2.0	0.9	.....	.....	2	.....	w.	0	0	.....	
Nagpur	28.94	735.1	30.00	761.9	70.5	24.7	47	sw.	3.0	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Jubbulpore	28.63	727.1	30.01	762.2	73.0	22.8	57	s.	4.0	1.8	.....	.....	2	w.	.....	0	0	d. clouds	
Lucknow	29.08	753.8	30.07	763.7	69.3	20.7	63	calm	0	0	.....	.....	4	.....	s.	0	0	d. clouds	
Allahabad	29 72	755.0	30.05	763.2	64.0	17.8	77	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.88	758.9	30.07	763.8	65.8	18.8	72	sse.	2.4	1.1	.....	.....	10	w.	w.	0	0	overcast	
Hazaribagh	27 99	710 9	30.06	763.6	64.5	18.1	49	nnw.	4.3	1.9	.....	.....	6	sse.	sse.	0	0	d. clouds	
Cuttack	29.95	760.8	30.03	762.8	77.1	25.1	64	calm	0	0	.....	.....	3	.....	.....	0	0	d. clouds	
Calcutta, Alipore	30.03	762.8	30.09	763.4	67.6	19.8	70	w.	0.5	0.2	.....	.....	6	.....	.....	0	0	d. clouds	
Dhubri	29.97	761.2	30.09	764.3	65.4	18.6	78	ese.	5.5	2.5	.....	.....	1	.....	.....	0	0	d. clouds	
Chittagong	29.99	761.8	30.08	764.2	66.6	19.2	79	w.	1.5	0.7	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.78	756 3	30.13	765.3	58.7	14.8	94	sw.	2.0	0.9	.....	.....	2	.....	.....	0	0	blue sky	
Zanzibar	29.83	757.8	29.86	758.3	87.2	30.7	58	nne.	8.7	3.9	.....	.....	10	w.	w.	0	0	overcast	
Jeypore	28.57	725.6	30.05	763.3	68.7	20.4	41	nw.	1.9	0.8	.....	.....	0	.....	.....	0	0	blue sky	
Bellary	28.49	723.6	.....	.....	77.5	25.3	38	e.	4	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.74	755.4	.....	.....	80.3	26.8	56	e.	1	0.4	.....	2 c	0	.....	.....	0	0	d. clouds	
													10	.....	.....	0	0	overcast	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.90	759.5	30.33	770.4	29.1	— 1.6	54	se.	11.2	5.0	.....	.....	10	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.78	756.5	30.33	770.3	32.0	0.0	83	se.	4.9	2.2	.....	.....	10	e.	.....	0.067	1.7	.....	Prof. Schiapparelli.
Padua	30.22	767.6	30.34	770.5	32.0	0.0	41	ene.	11.9	5.3	.....	.....	10	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.36	745.8	30.31	769.8	35.6	2.0	87	ene.	2.5	1.1	.....	.....	10	.....	.....	0.224	5.7	.....	Prof. F. F. Denza.
Genoa	29.98	761.4	30.17	766.3	36.9	2.7	68	n.	12.5	5.6	.....	.....	10	n.	.....	0.921	23.4	.....	Prof. G. M. Garibaldi.
Mondovi	28.30	718.7	30.30	769.5	28.8	— 1.8	90	w.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.19	766.7	30.24	768.0	40.3	4.6	90	ne.	2.5	1.1	.....	.....	10	.....	.....	0.146	3.7	.....	Prof. Luigi Guidi.
Florence	29.87	758.6	30.13	765.3	40.1	4.5	70	ne.	.....	.....	4	.....	10	ese.	.....	0.272	6.9	.....	Prof. Costantino Pittei.
Leghorn	29.95	760.6	30.03	762.8	40.3	4.6	84	ene.	17.4	7.8	.....	.....	10	ene.	.....	0.819	20.8	.....	Prof. P. Monte.
Rome	29.95	760.8	30.13	765.3	50.9	10.5	72	s.	0	0	.....	.....	3	.....	.....	0.067	1.7	.....	Prof. P. Tachini.
Lecce	29.99	761.7	30.25	768.3	48.6	9.2	69	ne.	4.3	1.9	.....	.....	2	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.36	745.8	30.28	769.0	43.5	6.4	70	nnw.	3.1	1.4	.....	.....	9	nw.	.....	0.120	3.2	.....	Prof. D. Conti.
Cagliari	29.93	760 1	30.12	765.1	56.3	13.5	75	nw.	.....	.....	2	.....	6	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.94	760.4	30.19	766.8	59.0	15.0	55	wsw.	14.3	6.4	.....	.....	7	wsw.	.....	0	0	.....	Prof. G. Caccintore.
Syracuse	30.19	766.7	30.23	767.8	56.3	13.5	72	wsw.	8.1	3.6	.....	.....	8	wnw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R.	29.63	752.6	30.17	766.3	51.8	11.0	73	s.	0.7	0.3	.....	.....	10	wsw.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.04	559.8	.....	.....	12.6	—10.8	62	ene.	.....	.....	2	.....	1	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.08	560.7	.....	.....	16.3	— 8.7	67	e.	.....	.....	2	.....	0	.....	.....	0.315	8.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.12	765.0	30.15	765.8	26.6	— 2.6	81	calm	.....	.....	0	.....	10 ck	.....	w.	0.210	5.5	cloudy	Hattori.
Awomori	30.02	762 5	30.00	763.4	39.0	3.9	79	s.	14.4	6.4	.....	0	1 s	.....	.....	0.084	2.1	clear	K. Ogawa.
Hakodate	30.00	762.1	30.01	762.4	41.8	5.4	77	sw.	4.8	2.1	.....	0	7	.....	nw.	0	0	cloudy	
Hamamatsu	30.20	767.1	30.23	767.8	44.9	7.2	68	calm	.....	.....	0	.....	10 s	.....	.....	0	0	overcast	
Kagoshima	30.29	769.4	30.30	769.7	44 9	7.2	82	n.	.....	.....	2	0	5 s	.....	.....	0.008	0.2	cloudy	G. Miyanohaza.
Kioto	30.09	764.3	30.27	768.9	37.8	3.2	82	wnw.	1.0	0.4	.....	.....	10 n	.....	.....	0.005	0.1	light rain	M. Tojima.
Kochi	30.22	767.6	30.24	768.1	45 7	7.6	81	nw.	5.1	2.2	.....	.....	10	.....	.....	0	0	overcast	K. Kusunose.
Miasaka	30.26	768.5	30.28	769.2	42.9	6.1	81	calm	.....	.....	0	.....	10ks;s	.....	sw.	0	0	cloudy	K. Masusaki.
Nagasaki, I. M. Obs'y	30.09	764.2	30.30	769.5	44.7	7.1	94	calm	0	0	.....	0	3 n	.....	.....	0.050	1.3	raining	S. Takehayashi.
Niigata	30.14	765.5	30.18	766.6	32.5	0.3	73	sw.	2.9	1.2	.....	0	8 ck	.....	.....	0.005	0.1	cloudy	M. Morita.
Nobiru	30.13	765.3	30.15	765.7	30.8	— 0.7	83	n.	5.0	2.2	.....	0	9 s	.....	.....	0	0	cloudy	H. Midzushima.
Numazu	30.08	764.1	30.12	765.0	45.0	7.2	75	calm	.....	.....	0	.....	9 ks	.....	w.	0.004	0.1	cloudy	R. Kaneda.
Sakai	30.19	766.8	30.20	767.1	41.6	5.3	86	calm	.....	.....	0	0	1 s	.....	.....	0.012	0.3	fair	K. Yamawchi.
Supporo	.....	.....	.....	.....	36.2	2.3	94	s.	25.4	11.4	.....	0	8	.....	.....	0	0	cloudy	
Tokei Obs'y, Yeddo	30.10	764.5	30.18	766.5	38.2	3.4	75	n.	2.0	0 9	.....	.....	10 s	.....	.....	0	0	.....	The Staff.
Wanayama	30.21	767.4	30.27	768.8	42.3	5.7	79	calm	0	0	.....	.....	10 n	.....	.....	0.074	1.9	raining	Y. Kuwamura.
Osaka	30.26	768.6	30.27	769.0	39.2	4.0	51	ne.	1.7	0.7	.....	.....	10 n	.....	.....	0.010	0.2	light rain	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.78	756.4	29.97	761.2	82.5	28.1	64	ne.	14.5	6.5	.....	0	4 kn	.....	ne.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. Diaz Pena.
Guanajuato	23.70	601.9	29.92	759.9	51.8	11.0	82	s.	inap.	inap.	.....	2 c	0	.....	.....	0	0	clear	Prof. Vicente Fernandez.
Leon	24.36	618.7	30.19	766.8	47.5	8.6	90	wnw.	.....	.....	1	4 c	0	.....	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.76	755.9	30.02	762.6	64.0	17.8	81	nw.	1.6	0.8	.....	6 cs	0	sw.	.....	0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.14	587.8	30.33	770.3	45.9	7.7	74	calm	0	0	.....	0	2 k	.....	.....	0	0	fine	The Staff.
Morelia	24.27	616.5	30.13	765.4	45.7	7.6	69	se.	.....	.....	2	1 c	1 k	s.	se.	0	0	clear	M. Tena, M. D.
Puebla, Catholic Institute	23.40	594.4	30.27	768.9	44.6	7.0	40	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
Zacatecas	22.51	571.8	30.25	768.2	45.67	7.87	65	wsw.	6.5	2.9	.....	2 ck	3 s	w.	wsw.	0	0	½ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.45	773.5	30.45	773.5	36.0	2.2	.....	ene.	.....	.....	3	.....	.....	.....	.....	0.039	1.0	.....	
Groningen	30.41	772.3	30.46	773.7	29.1	— 1.6	.....	ne.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Hellevoetsluis	30.46	773.6	30.46	773.6	29.7	— 1.3	85	ene.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Utrecht	30.42	772.6	30.47	773.8	30.7	— 0.7	84	ene.	.....	.....	2	.....	2	.....	.....	0	0	lightly cl'dy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.93	760.3	.....	.....	79.0	26.1	82	n.	0	0	.....	.....	2	.....	.....	0.12	3.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.36	771.2	30.43	772.8	39.2	4.0	93	sse.	7	3	.....	.....	10	.....	.....	0.142	3.6	.....	
Brono	30.15	765.7	30.19	766.7	40.3	4.6	92	sw.	18	8	.....	.....	10	.....	.....	0.780	19 8	raining	
Christiania	30.20	767.0	30.36	771.1	18.9	— 7.3	97	ene.	0	0	.....	.....	0	.....	.....	0	0	.....	
Gjæsvær	29.70	754.3	29.72	754.9	37.4	3.0	.....	w.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	
Lodingen	29.92	760.0	29.97	761.2	40.3	4.6	97	wsw.	.....	.....	2	.....	10	.....	.....	0.252	6.4	foggy	
PORTUGUESE.																			
Angra, Azores	29.69	754.1	29.85	758.1	57.6	14.2	84	nnw.	2.5	1.1	.....	.....	4	.....	.....	0.118	3.0	.....	Dr. J. A. Sampaio.
Campo Major	29.15	740.3	30.10	760.1	54.9	12.7	68	ese.	2.5	1.1	.....	.....	5	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.01	762.3	30.10	764.5	65.5	18.6	80	sw.	0.9	3.1	.....	.....	10	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.78	756.4	30.15	765.8	45.9	7.7	87	ne.	0.9	3.1	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	29.82	757.5	29.89	759.3	60.8	16.0	73	s.	3.1	1.4	.....	.....	3	.....	.....	0.402	10.2	.....	
Saint Paul de Loando	29.72	755.0	29.93	760.1	77.9	25.5	88	w.	1.8	0.8	.....	.....	3	ne.	.....	0	0	.....	
Serra da Estrella	25.50	647.6	30.32	770.2	43.2	6.2	47	sse.	6.3	2.8	.....	.....	5	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.29	744.0	30.51	775.0	— 0.6	—18.1	89	s.	2	1	.....	0	0	.....	.....	.....	.....	.....	Major K. Lasarew.
Archangel	30.00	763.5	30.08	764.0	— 2.6	—19.2	86	ssw.	4	2	.....	.....	9 ks	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashuruda	30.26	768.7	30.17	766.3	48.2	9.0	93	wnw.	4	2	.....	.....	10 kn	.....	.....	0	0	.....	
Astrakhan	30.47	774.0	30.39	771.9	10.3	— 8.7	57	wsw.	13	6	.....	.....	10	.....	.....	0	0	heavy cl'ds.	Capt. Wisganow.
Baku	30.33	770.3	30.28	769.1	35.1	1.7	85	n.	22	10	.....	.....	9 k	.....	.....	blank	blank	.....	
Barnaul	29.94	760.5	30.50	774.6	9.3	—12.0	74	sw.	13	6	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Bielosersk	29.55	750.5	30.08	763 9	— 2.9	—19.4	88	nne.	7	3	.....	8 c	0	.....	.....	0.150	3.8	.....	
Dorpat	29.93	760.2	30.20	767.1	8.6	—13.0	100	calm	0	0	.....	.....	10 ks	.....	.....	0.008	0.2	.....	Observatory.
Ekaterinburg	29.11	739.4	30.16	766.1	9.7	—12.4	86	ssw.	4	2	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Elisawetgrad	29.79	756.6	30.29	769.3	9.1	—12.7	76	wnw.	11	5	.....	3 cs	0	.....	.....	0	0	light clouds	
Kasan	29.07	753.7	29.97	761.1	14.5	— 9.7	72	ssw.	7	3	.....	.....	9	.....	.....	0.004	0.1	.....	Observatory.
Kem	29.99	761.8	30.04	763.1	10.8	—11.8	93	sw.	4	2	.....	.....	9 ks	.....	.....	0	0	.....	
Kertch	30.36	771.2	30.38	771 7	12.2	—11.0	86	n.	7	3	.....	0	4 k	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.49	749.0	30.19	766 9	8.6	—13.0	65	nw.	20	9	.....	c;cs	9 ks	.....	.....	0.122	3.1	.....	Observatory.
Koslov	29.18	741.2	29.76	756.0	— 0.9	—18.3	87	ssw.	18	8	.....	10 cs	0	.....	.....	0	0	.....	
Libau	30.22	767 5	30.24	768.1	30.4	— 0.9	80	wnw.	11	5	.....	.....	10	.....	.....	0.004	0.1	.....	E. Quaas.
Lugan	29.93	760.2	30.14	765.5	1.0	—17.2	58	wsw.	22	10	.....	.....	1	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.15	740.4	29.69	754.1	— 2.6	—19.2	81	nnw.	7.8	3.5	.....	.....	10 n	.....	.....	0.087	2.2	light snow	
Nikolniev	30.34	770.7	30.42	772.6	11.8	—11.2	82	w.	10	7	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Pekin, China	30.28	769.2	30.43	772.8	24.4	— 4.2	39	calm	0	0	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Petrozavodsk	29.93	760.1	30.15	765.8	— 6.5	—21.4	85	nw.	7	3	.....	.....	10	.....	.....	0	0	light clouds	Dr. Bergmann.
Pinsk	29.75	755.6	30.29	769.4	10.5	— 8.6	94	wnw.	18	8	.....	.....	10	.....	.....	.....	.....	snowing	
Pola	30.20	768 7	30.28	769.2	31.0	— 0.2	96	wsw.	7	3	.....	.....	10 n	.....	.....	0.713	18.1	snowing	
St. Petersburg	30.16	766.1	30.18	766.5	— 4.0	—20.0	88	calm	0	0	.....	.....	10	.....	.....	inap.	inap.	light clouds	Central Physical Obs'y.
Samarkand	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Sevastopol	30.18	766.5	30.34	779 7	13.6	—10.2	57	ene.	11	5	.....	.....	9 n	.....	.....	blank	blank	.....	
Semipalatinsk	29.93	760.1	30.05	778.4	8.6	—13.0	76	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Major Lasarew.
Starol Bykhov	29.61	752.0	30.11	764.8	7.5	—13.6	59	nw.	25	11	.....	.....	10	.....	.....	0	0	.....	
Tiflis	28.76	730.4	30.26	768.6	30.2	— 1.0	78	nnw.	9	4	.....	.....	10	.....	.....	inap.	inap.	light snow	Physical Observatory.
Tomsk	29.94	760.5	30.25	768.3	7.0	—13.9	83	nw.	11	5	.....	.....	10	.....	.....	.....	.....	snowing	
Vlatka	29.28	743 7	29.90	761.0	10.4	—12.0	.....	e.	2	1	.....	.....	8	.....	.....	0.039	1.0	snowing	
Warsaw	30.02	762.4	30.47	774.0	21.6	— 5.8	62	nw.	13	6	.....	3 ck	0	.....	.....	0	0	.....	Astronomical Obs'y.
Wilna	29.56	750.8	30.00	762.1	22.6	— 5.2	98	w.	4	2	.....	.....	10	.....	.....	0.008	0.2	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.79	756.7	30.11	764.8	6.3	—14.3	87	w.	11	5	.....	.....	10	.....	.....	0.024	0.6	snowing	M. O. Marks.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Scottish.																			
Monach Lt	.....	.....	30.26	768.6	46	7.8	92	s.	.....	.....	4	5	3	s.	.....	0	0	d. clouds	J. Youngclause.
North Unst	.....	.....	30.35	770.9	.....	.....	.....	w.	.....	.....	4	.....	10	.....	.....	.....	.....	foggy	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.11	764.8	30.22	767.5	47.8	8.8	75	e.	2.0	0.9	.....	.....	9	.....	.....	0.362	9.2	.....	**Antonio Rave, Director.**
Bilbao, Met. Obs'y	30.19	766.7	30.24	768.2	50.9	10.5	63	se.	1.6	0.7	.....	0	0	.....	.....	0	0	clear	**Prof. Manuel de Naveran.**
Burgos, Met. Obs'y	27 16	689 8	30.22	767.6	40.6	4.8	70	n.	3.1	1.4	.....	0	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.89	708.3	30.16	766.1	48.6	9.2	66	ne.	1.8	0.8	.....	0	0	.....	.....	0.008	0.2	clear	The Staff.
Murcia, Met. Obs'y	30.00	761.9	30.11	764.8	58.1	14.5	75	sw.	2.0	1.0	.....	2	5	e.	.....	0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.34	745 3	30.22	767.6	33.8	1.0	90	s.	3.4	1.5	.....	1 8	0	.....	.....	0.016	0.4	fair	**Prof. L. G. Frades.**
Santiago, Met. Obs'y	29.12	739.7	30.02	762.6	55.0	12.8	78	calm	0	0	.....	.....	1	.....	.....	0	0	almost clear	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.98	761.6	30.04	763.0	78.5	25.8	74	n.	22.1	9.9	.....	4 c	2 ks	.....	.....	0	0	fair	**P. F. Faura, S. J.**
San Fernando, Naval Obs'y	30.08	763.9	30.18	766.4	60.6	15.9	74	se.	10.6	4.7	.....	3	6	w.	w.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.06	763.4	30.15	765.7	79.5	26.4	56	calm	0	0	.....	3 cs	5 k	se.	se.	0.118	3.0	d. clouds	Manuel Maese.
Swedish.																			
Haparanda	30.08	763 9	30.11	764.9	0.3	—17.6	100	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	30.07	763 8	30.12	765.1	9.3	—12.6	84	calm	.....	.....	0	.....	1	.....	.....	0	0	.....	
Hernosand	29.99	761.8	30.04	763.1	15.4	— 9.2	94	calm	.....	.....	0	.....	5	.....	.....	0	0	.....	
Stockholm	30.05	763.2	30.22	767.7	21.2	— 6.0	74	w.	.....	.....	2	.....	6	.....	.....	0	0	.....	
Wisby	30.17	766.4	30.23	767.9	31.3	— 0.4	85	nnw.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.11	764.9	30.20	767.1	16.2	— 8.8	100	sw.	1.6	0.7	.....	.....	3	.....	n.	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	28.76	730.6	30.25	768.3	35.1	1.7	91	se.	.....	.....	1	.....	10	.....	.....	0.394	10.0	foggy	**The Observatory.**
Turkish.																			
Constantinople	.....	.....	30.51	774.9	29.1	— 1.6	86	nne.	12	5.5	.....	.....	6	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	30.24	768.2	48.7	9.3	.....	ne.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.04	763 1	59.9	15.5	71	wsw.	.....	.....	3	.....	10 n	.....	sw.	0.13	3.3	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.97	685.0	.....	.....	14	—10.0	75	se.	.....	.....	1	0	0	.....	.....	0	0	clear	**Fred L. Kingsbury.**
United States.																			
Albany, New York	29.70	754.4	29.79	756.7	29.7	— 1.3	76	sw.	12	5.4	.....	.....	10 s	.....	.....	0.10	2.5	cloudy	J. O. Barnes.
Alpena, Michigan	29.12	739 6	29.83	757.7	15	— 9.4	83	nw.	14	6.3	.....	0	1 ks	.....	nw.	0.10	2.5	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.11	637.8	30.23	767.8	20	— 6.7	64	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. G. Barnes.
Assinnaboine, Ft., Montana	27.25	692.1	30.29	769.4	— 3	—19.4	68	sw.	15	6.7	.....	.....	10 s	.....	.....	.....	.....	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.80	731.5	30.04	763.0	53.0	11.7	100	w.	8	3.6	.....	.....	10 ks	.....	w.	0.51	13.0	cloudy	H. C. Smith.
Atlantic City, New Jersey	29.82	757.4	29.83	757.7	33	0.6	83	calm	0	0	.....	.....	10 s	.....	.....	2.47	62.7	cloudy	Jas. M. Watson.
Augusta, Georgia	29.83	757.7	30.03	762.7	58	14.4	93	w.	1	0.4	.....	.....	10 s	.....	w.	0.04	1.0	cloudy	John Healy.
Baltimore, Maryland	29.83	757.7	29.88	758.9	34	1.1	89	calm	0	0	.....	.....	10s; fg	.....	.....	0.64	16.3	cloudy	Geo W Felger.
Barnegat, New Jersey	29.82	757.4	29.84	757.9	32.0	0.0	96	w.	2	0.9	.....	.....	10 s	.....	.....	0.23	5.8	cloudy	John Healy.
Behring Id., Behring Sea	29.34	745.2	29.36	745 7	22.0	— 5.6	.....	nw.	8	3.6	.....	.....	10 n	.....	.....	0.11	2.8	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.60	726.4	30.34	770.6	— 8	—22.2	78	ne.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	**Leonard Steineger.**
Benton, Fort, Montana	27 20	690.9	30.18	766.6	1	—17.2	72	calm	0	0	.....	0	0	.....	.....	0.04	1.0	threatening.	A. Pritchard.
Billings, Montana	26.79	680.5	.....	.....	3	—16.1	.....	e.	4	1.8	.....	0	0	.....	.....	0.01	0.3	clear	S. Wheaton.
Bismarck, Dakota	28.35	720.1	30.34	770.6	—19	—28.3	100	nw.	2	0.9	.....	hz.	0	.....	.....	0.31	7.9	clear	T. Gibson.
Block Island, Rhode Island	29.79	756.7	29.82	757.4	31	— 0.0	100	ne.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense haze	Cyrus Cramer.
Boise City, Idaho	27.59	700.8	30.52	775.2	18	— 7.8	91	se.	12	5.4	.....	0	0	.....	.....	0.12	3.0	dense fog	J. T. Elker.
Boston, Massachusetts	29.66	753.4	29.83	757.7	18.5	— 7.5	84	nw.	6	2.7	.....	.....	10 s	.....	.....	0	0	clear	B. E. Light.
Brownsville, Texas	29.99	761.7	30.04	763.0	55.0	12.8	93	calm	0	0	.....	.....	10 s	.....	.....	0.17	4.3	cloudy	O. B. Cole.
Buffalo, New York	28.95	735.3	29 75	755.6	28	— 2.2	92	sw.	36	16.1	.....	.....	10 n	.....	.....	0.05	1.3	threatening.	M. McCarty.
Buford, Fort, Dakota	28.17	715.5	30.37	771.4	—12	—24.4	54	nw.	4	1.8	.....	.....	10 s	.....	sw.	inap.	inap.	light snow.	W. Finn.
Burlington, Vermont	29.39	746.5	29.70	754.4	25.6	— 3.6	85	s.	11	4.9	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	F. A. Mellen.
Cairo, Illinois	29.03	752.6	30.05	763.3	39.8	4.3	84	n.	6	2.7	.....	.....	10 s	.....	s.	0.02	0.5	cloudy	**G. O. Schaeffer.**
Cape Henry, Virginia	29.89	759.2	29.91	759.7	39	3.9	100	s.	5	2.2	.....	.....	10 s	.....	n.	0	0	threatening.	W. H. Ray.
Cape May, New Jersey	29.83	757.7	29.86	758.4	37.0	2.8	89	sw.	10	4.5	.....	.....	10 n	.....	.....	0.77	19.6	cloudy	A. K. Alderson.
Cape Mendocino, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.26	6.6	light rain	W. E. Smith.
Cedar Keys, Florida	30.03	762.7	30.05	763.3	63	17.2	93	s.	12	5.4	.....	.....	10s; fg	.....	s.	0	0	threatening.	J. J. McLean.
Champaign, Illinois	29.13	739.9	30.00	762.0	28.3	— 2.1	64	w.	7	3.1	.....	.....	10 s	.....	w.	0	0	cloudy	F. W. Mixer.
Charleston, S. Carolina	29.99	761.7	30.05	763.3	60	15.6	100	sw.	4	1.8	.....	.....	10 n	.....	.....	0	0	cloudy	L. A. Welsh.
Charlotte, N. Carolina	29.66	738.1	29.94	760.5	46.0	7 8	100	sw.	2	0.9	.....	.....	fg.	.....	.....	0.13	3.3	light rain	J. H. Smith.
Chattanooga, Tennessee	29.17	740.9	30.03	762.7	50.0	10.0	89	w.	4	1.8	.....	.....	10 ks	.....	w.	1.19	30.2	dense fog	D. O'Donoghue.
Cheyenne, Wyoming	23.70	602.0	29.95	760.7	34.8	1.6	37	nw.	36	16.1	.....	0	5 8	.....	.....	0.92	23.4	cloudy	B. L. Goulding.
Chicago, Illinois	29.24	742 7	29.99	761.7	18.2	— 7.7	72	nw.	7	3.1	.....	.....	10 s	.....	.....	0	0	fair	E. McGovern.
Chincoteague, Virginia	29.85	758.2	29.87	758.7	38.5	3.6	100	s.	4	1.8	.....	.....	10s; fg	.....	.....	inap.	inap.	cloudy	J. Mitchell.
Cincinnati, Ohio	29.31	744.5	30.00	762.0	37	2.8	82	nw.	7	3.1	.....	.....	10 s	.....	w.	0.40	11.7	cloudy	C. F. Dickens.
Cleveland, Ohio	29.10	739.1	29.88	758.9	30.8	— 0.7	94	w.	18	8.0	.....	.....	10 s	.....	w.	0	0	cloudy	R. B. Watkins.
Coleman City, Texas	28.12	714.2	30.00	762 0	42	5.6	60	nw.	8	3.6	.....	0	0	.....	.....	0	0	cloudy	J. B. Newlin.
Columbus, Ohio	29.03	737.3	29.93	760.2	34	1.1	78	w.	13	5.8	.....	.....	10 s	.....	w.	0	0	clear	L. Dorman.
Concho, Fort, Texas	28.02	711.7	30.04	763.0	32.3	0.2	81	sw.	6	2.7	.....	0	0	.....	.....	0	0	cloudy	D. Cuthbertson.
Custer, Fort, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	clear	J. McGlone.
Davenport, Iowa	29.37	746.0	30.08	764.0	12	—11.1	61	nw.	4	1.8	.....	.....	.....	.....	.....	.....	.....	.....	W. B. Lamar.
Davis, Fort, Texas	25.14	638.5	30.12	765.0	32	0.0	85	s.	4	1.8	.....	5 cs	0	w.	.....	0	0	fair	R. K. Martin.
Dayton, Washington T'y	28.60	726.4	30.40	772.1	33	0.6	81	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Williams.
Deadwood, Dakota	25.14	638.5	30.08	764.0	7	—13.9	80	w.	7	3.1	.....	0	2 s	.....	.....	1.25	31.7	clear	D. Moore.
Delaware Breakwater, Del	29.84	757 9	29.86	758 4	33	0.6	100	sw.	6	2.7	.....	.....	10 s	.....	.....	0.27	6.9	cloudy	F. Willson.
Denison, Texas	29.14	740.1	29.98	761.5	34.0	1.1	100	se.	5	2.2	.....	.....	fg.	.....	.....	0.34	8.6	dense fog	T. S. Townsend.
Denver, Colorado	24.48	621.8	30.09	762.0	44.0	6.7	45	sw.	8	3.6	.....	0	10 n	.....	.....	0.02	0.5	light rain	J. W. Byram.
Des Moines, Iowa	29 19	741.4	30.16	766.1	— 1	—18.3	68	n.	7	3.1	.....	0	4 s	.....	w.	0	0	fair	F. M. Neal.
Detroit, Michigan	29.13	739.9	29.89	759.2	28.0	— 2.2	88	w.	16	7.2	.....	0	5 s	.....	n.	0	0	fair	F. W. Conrad.
Dodge City, Kansas	27.17	690.1	29.92	760.0	21	— 6.1	73	n.	10	4.5	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	C. F. R. Wappenhans.
Dubuque, Iowa	29.35	745.5	30.12	765.0	8.3	—13.2	63	n.	10	4.5	.....	0	5 s	.....	w.	0	0	fair	V. P. Temple.
Duluth, Minnesota	29.35	745.5	30.16	766.1	—16	—26.7	100	nw.	5	2.2	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. Harvey Smith.
Eagle Pass, Texas	29.25	742.9	30.09	764.3	37.0	2.8	82	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Eagle Rock, Idaho	25 28	642.1	30.24	768.1	27	— 2.8	80	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eastport, Maine	29.85	758.2	29.92	760.0	24 0	— 4.4	94	n.	6	2.7	.....	0	0	.....	.....	0.10	2.5	clear	J. M. Clifford.
Elliott, Fort, Texas	27.17	690.1	30.10	764.5	23	— 5.0	51	se.	19	8.5	.....	.....	10n; fg	.....	se.	0.14	3.6	sleeting	D. C. Murphy.
El Paso, Texas	26.28	667 5	30.16	766.1	38.0	3.3	57	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Erie, Pennsylvania	29.06	738.1	29.83	757 7	31	— 0.0	88	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Escanaba, Michigan	29.26	743.2	29.98	761.5	6.0	—14.4	76	w.	18	8.0	.....	.....	10 n	.....	.....	0.01	0.3	light snow	Peter Wood.
Fredericksburg, Texas	28.25	717.5	30.07	763.8	39	3.9	82	w.	14	6.3	.....	0	0	.....	.....	0.04	1.0	clear	George Heathcote.
Galveston, Texas	30.00	762.0	30.04	763.0	50	10.0	93	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	Frank Halwegler.
Grand Haven, Michigan	29.20	741.7	29.92	760 0	24.5	— 4.2	88	n.	6	2.7	.....	0	5 ks	.....	sw.	0.44	11.2	fair	E. O'C. Machnerney.
Grant, Fort, Arizona	25.26	641.6	30.16	766.1	31	— 0.6	65	nw.	17	7.6	.....	.....	10 n	.....	.....	0.07	1.8	light snow	J. E. Mueller.
Hatteras, North Carolina	29.94	760.5	29.96	761.0	44	6.7	100	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	Robert C. Lord.
Helena, Montana	25 80	655.3	30.23	767.8	29	— 1.7	88	nw.	5	2.2	.....	.....	10 n	.....	.....	80.	1.06	26.9	light rain	R. M. Crawford.
Henrietta, Texas	28.87	733 3	29.94	760.5	34	1.1	78	calm	0	0	.....	0	0	.....	.....	0.12	3.0	clear	N. C. Smith.
Huron, Dakota	28.79	731.3	30.33	770.4	—11	—23.9	50	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Indianapolis, Indiana	29.15	740.4	29.99	761.7	30	— 1.1	78	nw	8	3.6	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	S. W. Glenn.
Indianola, Texas	30.01	762 2	30.04	763 0	50.0	10.0	93	w.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	**J. F. Jirdinston.**
Jacksboro, Texas	28.74	730.0	29.98	761.5	46	7.8	61	s.	4	1.8	.....	0	3 k	.....	w.	inap.	inap.	clear	I. A. Reed.
Jacksonville, Florida	29.98	7 1.5	30.03	762 7	65	18.3	100	sw.	3	1.3	.....	0	0	.....	s.	0	0	clear	D. J. Carr.
Keogh, Fort, Montana	27 59	700 8	30.28	769.1	— 6	—21.1	64	w.	1	0.4	.....	.....	10 n	.....	.....	0.03	0.8	light rain	J. W. Smith.
Keokuk, Iowa	29.38	746.2	30.08	764.0	11.5	—11.4	68	nw.	6	2.7	.....	0	4 s	.....	.....	0.07	1.8	fair	A. Schneider.
												1 cs	0	.....	.....	0	0	clear	F. Z. Gosewisch.

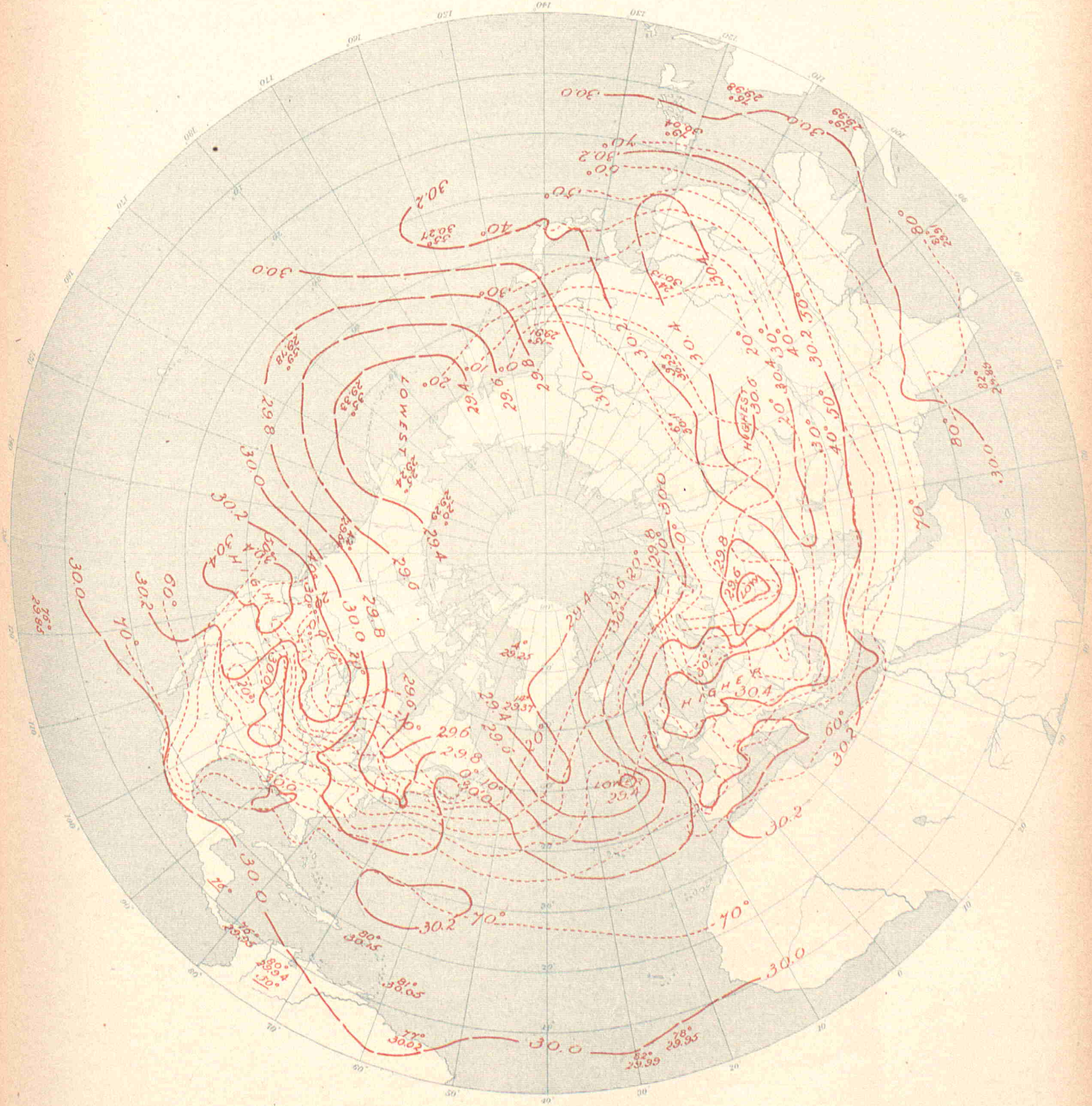
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.06	763.5	30.08	764.0	73.0	22.8	97	calm	0	0	.....	3 cs	fg.	w.	.....	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	29.95	760.7	29.97	761.2	41	5.0	100	n	5	2.2	.....	.....	10 s	.....	n.	0.82	20.8	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	28.95	735.3	30.03	762.7	47.3	8.5	100	w.	5	2.2	.....	.....	10 s	.....	w.	0.51	13.0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.25	742.9	30.09	764.3	— 4	—20.0	65	n.	8	3.6	.....	0	0	.....	.....	0.05	1.3	clear	S. C. Emery.
Leavenworth, Kansas	29.15	740.4	30.11	764.8	14	—10.0	80	n.	5	2.2	.....	.....	10 s	.....	nw.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.54	750.3	30.40	772.1	31.5	— 0.3	88	se.	2	0.9	.....	0	0	.....	.....	0.71	18.0	clear	W. Bell.
Little Rock, Arkansas	29.69	754.1	30.02	762.5	46	7.8	93	sw.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.80	756.9	30.20	767.1	45	7.2	68	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.43	747.5	30.02	762.5	43	6.1	74	w.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.15	740.4	29.87	758.7	39	3.9	86	w.	2	0.9	.....	.....	10 s	.....	.....	0.45	11.4	cloudy	Louis Duane.
Mackinaw City, Michigan	29.15	740.4	29.85	758.2	15.0	— 9.4	67	nw.	21	9.4	.....	.....	10 s	.....	nw.	0.34	8.6	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.01	762.2	30.02	762.5	48	8.9	100	w.	5	2.2	.....	.....	10 n	.....	w.	0.66	16.8	light rain	William Daly.
Madison, Wisconsin	28.94	735.1	30.03	762.7	4	—15.6	72	nw.	9	4.0	.....	0	0	.....	.....	0.03	0.8	clear	C. A. Shaw.
Macinnis, Fort, Montana	.....	.....	.....	.....	18	— 7.8	70	w.	16	7.2	.....	.....	10 k	.....	w.	0.10	2.5	cloudy	F. Burke.
McKavett, Fort, Texas	27.70	703.6	30.09	764.3	36	2.2	82	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.15	740.4	29.93	760.2	10	—12.2	80	nw.	15	6.7	.....	8 k	0	nw.	.....	inap.	inap.	cloudy	J. Gilligan.
Memphis, Tennessee	29.70	754.4	30.06	763.5	44	6.7	89	calm	0	0	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.20	741.7	30.00	762.0	9	—12.8	76	nw.	13	5.8	.....	0	2 s	.....	n.	inap.	inap.	clear	W. Line.
Missoula, Fort, Montana	26.85	682 0	30.31	769.9	22	— 5.6	88	calm	0	0	.....	.....	0 s	.....	.....	0.37	9.4	cloudy	I. H. Young.
Mobile, Alabama	29.97	761.2	30.01	762.2	60	15.6	93	n.	2	0.9	.....	.....	10 s	.....	n.	1.21	30.7	cloudy	C. A. Read.
Montgomery, Alabama	29.76	755.9	30.00	762.0	58	14.4	96	calm	0	0	.....	.....	10s;fg	.....	w.	0.99	25.1	threatening	J. B. McLaughlin
Moorhead, Minnesota	29.19	741 4	30.30	769.6	—25	—31.7	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.88	733.5	29.94	760.5	44.0	6.7	83	sw.	11	4.9	.....	.....	10 s	.....	sw.	inap	inap.	cloudy	J. O. Sprigg, jr.
Mt. Washington, N. H.	23.30	591.8	29.93	760.2	20.0	— 6.7	76	sw.	57	25.5	.....	.....	fg.	.....	sw.	0	0	dense fog	S. W. Beall.
Nashville, Tennessee	29.44	747.8	30.05	763.3	43.5	6.4	93	nw.	6	2.7	.....	.....	10 ks	.....	nw.	0.30	7.6	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.72	754.9	29.84	757.9	21	— 6.1	100	ne.	5	2.2	.....	.....	10 s	.....	.....	0.05	1.3	threatening	J. H. Sherman.
New London, Connecticut	29.78	756.4	29.84	757.9	23	— 5.0	73	ne.	6	2.7	.....	.....	10 s	.....	ne.	0.05	1.3	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.94	760.5	30.00	762.0	60.0	15.6	87	n.	3	1.3	.....	.....	10 s	.....	.....	0.68	17.3	cloudy	L. Dunne.
Newport, Rhode Island	29.70	755.9	29.81	757.2	23.0	— 5.0	94	n.	7	3.1	.....	.....	fg.	.....	.....	0.15	3.8	dense fog	W. McGillivray.
New York, New York	29.68	753.9	29.86	758.4	30	— 1.1	88	calm	0	0	.....	.....	10s;fg	.....	.....	0.06	1.5	cloudy	J. B. Merrill.
Norfolk, Virginia	29.89	759.2	29.92	760.0	40	4.4	100	s.	4	1.8	.....	.....	fg.	.....	.....	1.45	36.8	dense fog	Wm. Davis.
North Platte, Nebraska	26.90	684.8	30.08	764.0	11.6	—11.3	73	ne.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	E. F. Brady.
Olympia, Washington T'y.	30.32	770.1	30.36	771.1	36.0	2.2	89	s.	4	1.8	.....	0	0	.....	.....	0.08	2.0	clear	J. Dascomb.
Omaha, Nebraska	28.92	734.6	30.18	766 6	2.8	—16.2	69	n.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pollak.
Oswego, New York	29.32	744.7	29.97	753.6	33.0	0.6	78	s.	10	4.5	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	J. G. Linsley.
Palestine, Texas	29.46	748.3	30.04	763.0	33.0	0.6	88	n.	7	3.1	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	L. M. Pindell.
Pensacola, Florida	29.99	761.0	29.99	761.7	61.3	16.3	95	n.	4	1.8	.....	.....	10 s	.....	n.	0.44	11.2	cloudy	M. McGauran.
Philadelphia, Pa	29.76	755 9	29.87	758.7	31.5	— 0.3	94	n.	3	1.3	.....	.....	10s;fg	.....	n.	0.07	1.8	cloudy	T. T. Townsend.
Pike's Peak, Colorado	17.47	443.7	30.17	766.3	2	—16.7	83	w.	64	28.6	.....	0	2 ks	.....	.....	0	0	clear	H. Hall.
Ploche, Nevada	24.09	611.9	30.29	769.4	30	— 1.1	61	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.02	737.1	29.87	758.7	36.0	2.2	82	sw.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	W. A. Reid.
Poplar River, Montana	27.99	710.9	30.34	770 6	.....	.....	.....	nw.	.....	.....	I	0	5 s	.....	.....	0	0	fair	W. D. Maxwell.
Port Eads, Louisiana	30.00	762 0	30.00	762.0	60.0	15.6	96	n.	11	4.9	.....	.....	10 s	.....	n.	0.89	22.6	cloudy	H. B. Boyer.
Port Huron, Michigan	29.14	740 1	29.87	758.7	25.3	— 3.7	88	w.	19	8.5	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	W. O. Bailey.
Portland, Maine	29.79	756.7	29.84	757.9	12.0	—11.1	86	n.	12	5.4	.....	.....	10 n	.....	.....	2.73	69.3	light snow	W. W. Eichelberger.
Portland, Oregon	30.41	772.4	30.48	774.2	37.2	2.9	89	nw.	1	0.4	.....	5 c	0	.....	.....	0.84	21.3	fair	M. L. Bearne.
Portsmouth, N. C.	.....	.....	.....	.....	45	7.2	100	n.	.....	.....	I	.....	10 s	.....	nw.	0	0	cloudy	F. S Coburn.
Prescott, Arizona	24.83	630.7	30.21	767.3	22	— 5.6	87	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Provincetown, Mass.	29.75	755.6	29.78	759.4	36	2.2	89	se.	9	4.0	.....	.....	10 s	.....	.....	0.36	9.1	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.00	763.5	30.07	763.8	68	20.0	90	s.	8	3.6	.....	9 c	0	.....	.....	0	0	cloudy	W. J. Evans.
Red Bluff, California	30.05	763.3	30.42	772.7	41	5.0	100	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	29.02	737.1	29.72	754.9	31	— 0.6	92	w.	22	9.8	.....	.....	10 s	.....	sw.	inap.	inap.	threatening	E. W. McGann
Roseburg, Oregon	29.95	760.7	30.52	775.2	34	1.1	83	calm	0	0	.....	0	1 s	.....	nw.	0.42	10.7	clear	J. J. Nanry.
Sacramento, California	30.32	770.1	30.40	772.1	43.0	6.1	93	n	4	1.8	.....	.....	10 s	.....	nw.	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.41	747.0	30.05	763.3	28.4	— 2.0	92	nw.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.21	741.9	29.24	742 7	25	— 3.9	88	e.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.20	743.2	30.21	767.3	—11.0	—23.9	94	w.	2	0.9	.....	2 cs	0	.....	.....	0.04	1.0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.20	743.2	30.24	768.1	21	— 6.1	100	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	C. B Dilley.
Salt Lake City, Utah	25.09	652.5	30.20	768.0	33	0.6	62	sw.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.30	744.2	30.03	762.7	37.5	3.1	96	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	T. J. Kenan.
San Diego, California	30.09	764.3	30.10	766.1	45.0	7.2	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.18	741.2	29.90	759.4	30	— 1.1	81	nw.	25	11.2	.....	.....	10 s	.....	nw.	0.01	0.3	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.84	757.9	29.87	758.7	32.0	0.0	78	nw.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	B. A. Blundon.
San Francisco, California	30.31	769 9	30.38	771.6	49.5	9.7	96	n.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.10	586.7	30.10	766.1	16	— 8.9	64	ne.	15	6.7	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.94	760.5	30.04	763 0	62.5	16.9	79	s.	5	2.2	.....	.....	10 n	.....	s.	0.25	6.3	light rain	H. W. Ford.
Shaw, Fort, Montana	26.38	670.0	30.24	768.1	2	—16.7	75	w.	4	1.8	.....	1 cs	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.77	756.1	30.02	762.5	43	6.1	93	nw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.00	726.4	29.93	760.2	30.5	— 0.8	83	n.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.32	617 7	30.18	766.0	24.5	— 4.2	94	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	N. D. Lane.
Sitka, Alaska	29.57	751.1	29.94	752.8	41.7	5.4	58	e	24	10.7	.....	.....	10 s	.....	e.	0.04	1.0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.51	749 5	30.01	762.2	32.0	0.0	74	calm	0	0	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. B. Campbell.
Smithville, North Carolina	29.93	760 2	29.97	761.2	53	11.7	100	sw.	8	3.6	.....	.....	10 n	.....	w.	0.08	2.0	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.25	717.5	30.39	771.9	22.8	— 5.1	81	nw.	4	1.8	.....	0	0	.....	.....	0.02	0.5	clear	H. Clifford.
Springfield, Illinois	29.29	744.0	30.02	762.5	32	0.0	78	nw.	6	2.7	.....	.....	10 s	.....	nw.	0.01	0.3	cloudy	T. B. Jennings.
Springfield, Missouri	28.51	724.1	30.03	762.7	29	— 1.7	94	nw.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	J. H. Bryce.
Starkville, Miss.	29.54	750.3	30.04	763 0	47	8.3	93	nw.	4	1.8	.....	.....	10 s	.....	n.	1.14	29.0	cloudy	C. Dill.
Stevenson, Fort, Dakota	28.29	718.6	30.35	770.9	—11	—23.9	54	w.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	W. Burrows.
Stockton, Fort, Texas	26.94	684.3	30.08	764.0	41	5.0	52	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass.	29.78	756.4	29.84	757.9	37.4	3.0	89	s.	9	4.0	.....	.....	10 k	.....	sw.	0.04	1.0	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.34	694.4	30.17	766.3	30	— 1.1	84	sw.	.....	.....	I	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.18	741.2	29.92	760.0	31	— 0.6	78	w.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	A. Buell.
Tucson, Arizona	27.67	702 8	30.17	766 3	35	1.7	89	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.07	763.8	30.40	773.7	29	— 1.7	88	se.	3	1.3	.....	0	0	.....	.....	0.72	18.3	clear	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	26.5	— 3.1	67	n.	.....	.....	I	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.78	756.4	30.05	763.3	49.5	9.7	93	nw.	2	0.9	.....	.....	10 s	.....	.....	0.35	8.9	cloudy	James Kenealy.
Visalia, California	29.98	761.5	30.37	771.4	41.0	5.0	92	s.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	O. D. Stewart
Washakie, Fort, Wyoming	24.17	613.9	29.90	761.0	33.0	0.6	62	n	16	7.2	.....	.....	9 ks	.....	n.	0	0	cloudy	T. M. Ambler.
Washington, D. C.	29.70	755.9	29.88	758.9	33.5	0.8	100	calm	0	0	.....	.....	fg.	.....	.....	0.17	4.3	dense fog	B. M. Purssell.
West Las Animas, Colorado	25.74	653.8	29.88	758.9	28	— 2.2	67	nw.	5	2.2	.....	0	1 s	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.18	741.2	29.81	757.2	28	— 2.2	94	e.	1	0.4	.....	.....	10 s	.....	.....	0.01	0.3	threatening	B. F. Hough.
Wilmington, N. Carolina	29.90	759.4	29.90	761.0	58	14.4	93	sw.	10	4.5	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.81	655.6	30.35	770.9	32	0.0	66	sw.	14	6.3	.....	0	4 s	.....	sw.	0	0	fair	J. Grover.
Yankton, Dakota	28.82	732 0	30.24	768.1	— 4	—20.0	65	n.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Attfield.
Yuma, Arizona	30.01	762.2	30.10	766.1	45.9	7.7	66	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8	.....	.....	50.0	10.0	64	sw.	1	0.4	.....	7 k	2ks;8	nw.	nw.	0	0	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	74	23.3	82	n.	2	0.9	.....	0	1 s	.....	e.	0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	77	25.0	86	e.	.....	.....	2	4 c	0	e.	.....	0	0	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. Colombia	29.30	746.5	29.91	760.5	80	26.7	89	calm	.....	.....	0	8 ck	1 s	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75.5	24.2	94	se.	.....	.....	1	0	3 ks	.....	se.	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.31	744.5	29.30	745.7	25	— 3.9	88	calm	.....	.....	0	.....	4 k	.....	.....	0.04	1.0	fair	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Wallee.
York Factory B. A.	29.70	754.4	29.77	756.1	—27.0	—32.8	.....	nw.	24	10.7	.....	2 c	2 s	nw.	nw.	0.01	0.3	fair	Forrestine & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																	
H. M. S. Amethyst, Bohia Blanca, La Plata†	30.12	765.0	71.5	21.9	97	ese.			1–2		9	se.					misty
H. M. S. Audacious, N. 11° 02′, E. 118° 09′	29.87	758.7	81	27.2	91	ene.			2		4	ne.			5	nne.	squally.
H. M. S. Boadicea, Saldanha Bay, Cape Colony	29.98	761.5				s.			3		0						blue sky.
H. M. S. Carysfort, Suez Canal, Egypt	30.18	766.6	60	15.6	82	sw.			2		10	w.					showery.
H. M. S. Champion, Singapore, Malay Peninsula	29.99	761.7	79	26.1	86	ne.			1		9				1	ne.	d. clouds.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.44	773.2	37	2.8	54	n.			1		0						blue sky.
H. M. S. Comus, N. 29° 25′, W. 119° 48′	30.31	769.9	57	13.9	87	nnw.			4		2				3	n.	blue sky.
H. M. S. Condor, N. 34° 10′ E. 22° 14′	30.27	768.8	55.5	13.1	83	n.			4		4	nnw.			4	nnw.	d. clouds.
H. M. S. Constance, N. 16° 22, W. 25° 10′	30.10	764 5	72	22.2		ne.			3		4	nne.			3	nne.	d. clouds.
H. M. S. Curacoa, Yokohama, Japan	30.22	767.6	46.5	8.1	77	calm			0		10						overcast.
H. M. S. Crocodile N. 40° 50′ W. 9° 58′	30.03	762.7	60	15.6	76	sse.			4		10				2	ssw.	overcast.
H. M. S. Diamond, S. 38° 47′, E. 150° 12′	30.04	763.0	68	20.0	79	nne.			1–3		3	s.			2	ne.	d. clouds.
H. M. S. Dock-Yard, Bermuda, W. I.	30.09	764.3	67	19.4	92	ssw.			2–3		6	sw.					d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.95	760.7	80	26.7	87	ne.			1		1						blue sky.
H. M. S. Flying Fish, Nagasaki, Japan	30.28	769.1	49	9.4	93	calm			0		9						raining.
H. M. S. Fox Hound, Labuan Island, Borneo	29.88	758.9	75.5	24.2		sse.			4		9	se.			3	sse.	raining.
H. M. S. Gannet, S. 37° 06′, W. 73° 11′	29.86	758.4	57	13.9	81	calm			0		3						d. clouds.
H. M. S Heroine, N. 5° 14′, W. 25° 22′	29.95	760.7	78	25.6	82	e.			1		6				sm'h		d. clouds.
H. M. S. Himalaya, N. 36° 30′, W. 8° 10′	30.12	765.0	66	15.6	88	s.			1–2		9						d. clouds.
H. M. S. Iris, N. 40° 40′, E. 17° 59′	30.28	769.1	50	10.0	86	ese.			1		0				2	ese.	blue sky.
H. M. S. Iron Duke, N. 9° 40′, E. 70° 35′	29.89	759 2	82	27.8	74	n.			2		4	n.			1	n.	d. clouds.
H. M. S. Lark, S. 34° 20′, E. 105° 06′	30.06	763 5	67.3	19.6	87	e.			5		10				3	e.	overcast.
H. M. S. Magpie, N. 34° 41′ E. 135° 12′	30.27	768.8	43.7	6.5	75	calm			0		10						misty.
H. M. S. Monarch, Port Said, Egypt	30.10	764.5	59	15.0	81	sw.			3		7						d. clouds.
H. M. S. Mutine, S. 3° 37′, W. 109° 42′	29.97	761.2	72.5	22.5		ese.			2		2				1	ese.	blue sky.
H. M. S. Rocket, Lota Bay, Chili	29.90	759.4	62	16.7	94	s.			1		4						d. clouds.
H. M. S. Superb, N. 36° 45′, E. 35° 45′*	30.09	764.3	49	9.4	56	n.			5–6		8	nnw.			4	nnw.	squally.
H. M. S. Swiftsure, Callao Bay, Peru	30.00	762.0	67	19.4	94	s.			1–3		5				3	s.	d. clouds.
H. M. S. Sylvia, Cape Providence, Patagonia	29.67	753.6	47.7	8.7	88	nw.			4–5		10						raining.
H. M. S. Tourmaline, Bombay, India	29.97	761.2				nw.			3		1	wsw.					blue sky.
H. M. S. Zephyr, N. 37° 33′, E. 121° 25	30.37	771.4	28	— 2.2		wnw.			2		0				sm'h		misty.
Portuguese Naval.																	
Tamega, Macao, China	30.31	769.8	55.4	13.0	66	calm			0		0		0	0			blue sky
Swedish Naval.																	
Vanadis, N. 36° 37′, E. 21° 10′	30.30	769.6	51.8	11.0	86	ese.			3		10						raining.
United States Naval.																	
Navy Yard, Pensacola, Fla*	30.10	764.5	63	17.2	94	ne.	3	1.3			10	ne.	0	0			cloudy.
Navy Yard, Portsmouth, N. H*	29.85	758.2	13	—10.6	?	ne.	4	1.8			10	ne.					snowing.
Naval Hospital, Yokohama, Japan*	30.09	764.3	40	4.4	77	calm			0		10		0	0			overcast.
Adams, Sitka, Alaska†	29.65	753.1	39	3.9	63	ene.			4		1?	e.					snowing.
Alaska, Mare Island, Cal	30.30	769.6	49	9.4	92	calm			0		5		0	0			fair.
Alliance, N. 17° 10′, W. 73° 28′	30.02	762.5	78	25.6	95	e.			3–4		5		0	0	mod		fair.
Ashuelot, Shanghai, China	30.46	773.7	37	2.8	80	nnw.			1		0						clear.
Brooklyn, S. 43° 39′, W. 66° 26′*	30.01	762.2	59	15.0	100	ssw.	3	1.3			5	calm	0	0	sm'h		fair.
Colorado, New York, N. Y	29.99	761.7	32	0.0	100	ne.	1	0.4			10		0	0			cloudy.
Enterprise, N. 37° 21′, W. 65° 38′*	29.74	755.4	65	18.3	89	wnw.			5		10	calm			mod.	w.	cloudy.
Essex, Callao, Peru	29.90	759.4	67	19.4	90	se.			1		8	se.					fair.
Franklin, Norfolk, Va	29.91	759.7	42	5.6	91	ssw.	6	2.7			10		0.73	18.5			misty.
Galena, Montevideo, Uruguay*	29.96	761.0	73	22.8	90	e.			3		2				sm'h		fair.
Hartford, S. 26° 58′, W. 75° 13′*	30.00	762.0	66	18.9	90	s.			3		10	s.			sm'h	s.	cloudy.
Independence, Mare Island, Cal	30.37	771.4	47	8.3	100	se.			1		5		0	0			fair.
Iroquois, Callao, Peru	29.96	761.0	67	19.4	94	calm			0		8						cloudy.
Jamestown, Boston, Mass*†	29.90	759.4	14	—10.0	100	nw.			1		10						snowing.
Juniata, N. 37° 17′ W. 14° 05′*	29.94	760.5	60	15.6	100	s.			5		10	sw.	h'vy	h'vy	mod.	var.	raining.
Kearsarge, N. 11° 20′ W. 61° 29′	30.04	763.0	78	25.6	100	e.			3		8	se.			sm'h	se.	fair.
Lackawanna, N. 4° 45′ W. 123° 20′*	29.85	758.2	76	24.4	81	sw.			2		5	sw.			mod.	ne.	fair.
Lancaster, Genoa, Italy	30.17	766.3	39	3.9	100	n.			6		10	n.					squally.
Michigan, Erie, Pa	29.94	760.5	28	— 2.2	77	nw.			5		10	nw.					cloudy.
Minnesota, New York, N. Y	29.85	758.2	29	— 1.7	100	ne.	1	0.4			10	ne.					overcast.
Monocacy, Nagasaki, Japan	30.28	769.1	49	9.4	100	n.			1		5	nw.					raining.
New Hampshire, Newport, R. I	29.81	757.2	24	— 4.4	100	n.			2		10	calm			sm'h		snowing.
Nipsic, Lisbon, Portugal	30.17	766.3	55	12.8	73	ene.			2		10						cloudy.
Onward, Callao, Peru*†	30.03	762.7	66	18.9	93	e.			1		10	n.					cloudy.
Palos, Tientsin, China*	30.39	771.9	21	— 6.1	100	wsw.			1		0						clear.
Pensacola, Panama, U. S. C*	29.85	758.2	76	24.4	90	nw.	3	1.3			2		0	0	sm'h		clear.
Portsmouth, Boston, Mass	29.91	759 7	17	— 8.3	?	nw.			3		10						drizzling.
Powhatan, Boston, Mass	29.82	757.4	17	— 8.3	83	nw.			1		10						cloudy.
Quinnebaug, Genoa, Italy	30.19	766.8	39	3.9	39	nne.			5		10	calm					overcast
Ranger, N. 20° 09′, W. 114° 28′*	30.02	762.5	70	21.1	79	nw.			3		10	n.	0	0	mod.	nw.	cloudy.
Richmond, Hong-Kong, China*	30.21	767.3	59	15.0	59	calm			0		0		0	0			clear.
Saratoga, New York, N. Y	29.89	759.2	30	— 1.1	100	ne.			2		10	ne.	0	0			overcast.
St. Louis, League Island, Pa	29.88	758.9	29	— 1.7	100	wsw.			1		10		0.14	3.6			foggy.
Tennessee, St. Pierre, Martinique, W. I*	30.16	766.1	78	25.6	95	e.	5	2.2			5	e.	light	light	sm'h		clear.
Vandalia, San Juan, Porto Rico, W. I*	30.10	764.5	75	23.9	95	se.			1		5	e.					clear.
Wabash, Boston, Mass	29.83	757 7	15	— 9.4	83	nw.	6	2.7			10	nw.	0	0			cloudy.
Wachusetts, Mare Island, Cal	30.40	772.1	46	7.8	100	e.			1		8	calm					fair.
Wyandotte, Washington, D. C	29.97	761.2	37	2.8	80	ne.			1		10						misty.
Yantic, N. 13° 09′, W. 68° 25′	30.16	766.1	79	26.1	90	e.			5		2		0.1	3.	mod.	e.	fair.
Merchant Marine.																	
S. S. Polynesian, N. 45° 28′, W. 59° 28′*	30.07	763 8	20	— 6.7		ese.			2		8	wnw.	hail	hail	sm'h		fair.
S. S. Indiana, Mersey River, Eng			35	1.7		ese.			4		fg		0	0			foggy.
S. S. Lord Clive, N. 50° 51′, W. 23° 20′			52	11.1	86	sw.			4		10	e.			sm'h	sw.	
S. S. Lord Gough, N. 42° 33′, W. 60° 22′						wnw.			1		9	w.	3 h'r	3 h'r	slt	w.	overcast.
S. S. Ohio, N. 44° 14′, W. 55° 02′	30.02	762.5	32	0.0		e.			4		10	e.	0	0	mod.	e.	gloomy.
S. S. Pennsylvania, Liverpool, Eng†	30.00	762.0	27	— 2.8	100	var.			2		7				mod.	nw.	overcast.
S. S. Jason, N. 41° 01′, W. 67° 01′	30.44	773.2	35	1.7	100	sse.			1		10	s.	0	0			dense fog.
S. S. Stella, N. 50° 52′ W. 15° 07′			41.9	5.5		n.			4	4 c	0				4	nw.	clear.
S. S. Bolivia, N. 44° 38′, W. 50° 33′			54	12.2		se.			7		9	sse.	2 h'r	2 h'r	6	s.	squally.
S. S. Dorian, Castellamare, Sicily*	30.09	764.3	28	— 2.2	100	nne.			3		10		snow	snow	mod.	nnw	overcast.
S. S. Utopia, N. 33° 23′, W. 61° 37	30.09	764.3				var.							0	0			dull.
S. S. Antillas, Mayaguez, W. I	30.30	769.6	69	20.6	85	wsw.			4		9	wsw.	1 h'r	1 h'r	mod	w.	threatening.
S. S. Ambrose, Amazon River, Brazil†	30.27	768 8				nne.			2		2				sm'h	ne.	clear
S. S. Carroll, N. 42° 41′ W. 68° 35′	30.00	762.0	83	28.3		calm			0				2 h'r	2 h'r			fine.
S. S. Landaff City, N. 52° 10′, W. 15° 30′ *†			39	3.9		e.			5		10	e.	snow	snow	long	e.	squally.
S. S. Auckland, S. 56° 23′, W. 93° 19′	29.98	761.5				sse.			8		10	sw.	0	0	high	sse.	misty.
S. S. Caldew, S. 21° 25′, E. 75° 48′	29.20	741.7	43	6.1	83	wsw.			5		8						overcast.
S. S. City of Agra, S. 56° 34′, W. 83° 50′	30.08	764.0	76.3	24.6	86	ese.			5		8						d. clouds.
S. S. Gordon Castle, N. 33° 05′, E. 26° 50′	29.15	740.4	42.5	5.8	96	w.			5		8						d. clouds.
Inchkeith, N. 5° 47′, E. 88° 11′	30.18	766.6	55.0	12.8	80	wnw.			6		7				high	var.	d. clouds.
St. Kilda, N. 28° 23′ W. 62° 00′	29.91	759.7	80.8	27.1	78	ene.			4		4						d. clouds.
S. S. Scotia, Gibraltar, Mediterranean	30.28	769.1	72.5	22.5	80	se.			2		1						blue sky.
S. S. Lake Huron, N. 50° 33′, W. 22° 33′*	30.18	766.6	61.1	16.2	71	ese.			1		3						blue sky.
S. S. Mexico, N. 35° 28′ W. 121° 14′†	29.36	745 7	45	7.2		var.			1		8	sse.	0	0	long	w.	
	30.35	770.9	58	14.4	82	n.			3		0		0	0	long	w.	

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																	
S. S. Marathon, N. 50° 30′, W. 22° 40′	29.52	749.8	49	9.4		sSW.			3		10		sw.	10 h'r	10 h'r	r'gh	w.	cloudy.
S. S. Pavonia, N. 46° 06′ W. 41° 14′	29.67	753.6	36	2.2	80	WNW.			5		7		wnw.	sleet	sleet	mod.	nnw.	cloudy.
S. S. Colina, N 41° 50′, W. 54° 38′†	29.99	761.7				W.			1		8		s.	0	0	long	n.	cloudy.
S. S. Canada, N. 49° 53′, W. 11° 27′	30.31	769.9	50	10.0	50	sse.			4	ck	0	se.		0	0	sm'h	sw.	covered.
S. S. Labradore, N. 45° 12′, W. 52° 30′			23	—5.0		nnw.			5		6		nw.	snow	snow	sm'h	nnw.	fair.
S. S. Ville de Marseilles, Bordeaux, France*†	30.10	764.5	45	7.2		n.			2		0			0	0			clear.
S. S. Abyssinia, N. 49° 08′, W 33° 12′	29 46	748.3	42	5.6	83	nw.			3		8		nw.	1 h'r	1 h'r	mod.	nw.	snowy.
S. S. Wyoming, N. 47° 40′, W. 41° 17′			30	— 1.1		nw.			6		8		nw.	snow	snow	r'gh	nnw.	snowy.
S. S. Bohemia, Hamburg, Germany*†	30.39	771.9				se.			2		4							fair.
S. S. Rugia, N. 49° 49′, W. 9° 37′	30.34	770.6	52	11.1		sse.			6		5?		se.	0	0	high	var.	cloudy.?
S. S. Silesia, N. 42° 06′, W. 58° 32′†	30.26	768.6	37.3	2.9		e.			6		10		rain	rain	3	e.	rain & snow.
S. S. Vandalia, N. 50° 52′, E. 0° 58′	30.48	774.2	45.7	7.6		e.			6		8		e.			mod.	e.	cloudy.
S. S. Wieland, N. 48° 00′, W. 34° 38′	29.49	749.0				WNW.			6		8		nw.	hail	hail	high	nw.	clearing.
S. S. Mentmore, N. 48° 02′, W. 42° 06′ *	29.70	754.4				nw.			7		8		nw.	hail	hail	con.		clearing.
S. S. Archimedes, S. 5° 11′, W. 33° 10′	29.94	760.5				ese.			5		4		se.	0	0	mod.	ese.	fine.
S. S. Hevelius, Liverpool, Eng†	30.27	768.8	42	5.6		e.			4		10		e.	0	0			foggy.
S. S. Ptolemy, N 39° 52′, W. 12° 50′	29.95	760.7	59.8	15.4	90	sSW.			6	8	10 8		sSW.	1.70	43.2	con.	var.	threatening.
S. S. Sirius, S. 0° 30′, W. 39° 00′ *	29.89	759.2				e.			4		3		e.	0	0	mod.	ene.	clear.
S. S. Virginian, N 53° 30′ W. 3° 25′*	30.41	772.4	36	2.2		s.			1					0	0			foggy.
S. S. Colorado, N. 30° 41, W. 70° 30′ †	30.05	763.3	70	21.1		NNW.			4		8		n.	0	0	mod.	n.	cloudy.
S. S. San Marcos, N. 27° 00′, W. 89° 00′	29.95	760.7	68	20.0		sse.			4		10		s.	rain	rain	sm'h		raining.
S. S. Archimede, Marseilles, France†	30.08	764.0	52	11.1	60	nnw.			1		2		nnw.	0	0			clear.
S. S. Hernod, N. 48° 03′, W. 33° 50′†	29.42	747.3	39	3.9		nw.			4		0		nw.	snow	snow	long	nw.	squally.
S. S. Allegheny, Baltimore, Md			34	1.1		calm			0		0			0	0			foggy.
S. S. Glenfyne, N. 23° 48′, W. 61° 06′						ese.			3		0			0	0	mod.	ne.	clear.
S. S. Dominion, N. 51° 40′, W. 18° 18′ *†	29.05	753.1	54	12.2		sse.			6		10		s.	6 h'r	6 h'r	r'gh	s.	overcast.
S. S. Chalmette, Algiers, La†	30.00	762.0	64	17.8		nw.			2					0	0			foggy.
S. S. Denmark, New York, N. Y†	29.85	758.2	30	—1.1		calm			0		10		calm	0	0			overcast.
S. S. England, N. 49° 48′, W. 24° 30′	29.48	748.8				e.			2		0			sh'rs	sh'rs	mod.	w.	clear.
S. S. Erin, Liverpool, Eng*†	30.51	775.7	36	2.2		WNW.			4		fg.			0	0			
S. S. Greece, N. 49° 39°, W. 21° 00′	29.34	745.2	49	9.4		WSW.			3		10		sw.	10 h'r	10 h'r	mod.	w.	overcast.
S. S. Helvetia, N. 39° 31′, W. 70° 30′	29.74	755.4	45	7.2		e.			4		10		e.	3 h'r	3 h'r	short	ene.	hazy
S. S. Santiago, N 20° 15′, W. 74° 05′	30.05	763 3	80	26.7	90	e.			2		4		se.	1 h'r	1 h'r	sm'h		fine.
S. S. City of Alexandria, N. 20° 40′, W. 90° 54′†	30.01	762 2	70	21.4	95	ene.			3		3		se.	0	0			clear.
S. S. City of Merido, N. 30° 00′, W. 80° 01′†	30.03	762.7	71.0	22.0		se.			5		10		se.	3 h'r	3 h'r	mod.	se.	cloudy.
S. S. City of Washington, N. 19° 08′ W. 95° 18′ †	30.03	762.7	73	22.8		nw.			5		5		nw.	0	0	mod.	nw.	fine.
S. S. Alps, N. 43° 40′, W. 74° 12′	29.96	761.0	69	20.6		w.			4								WNW.	overcast.
S. S. Alpin, N. 27° 12′, W 80° 00′	30.06	763.5	70	21.1		w. to s.			4							sm'h		fair.
S. S. Braunschweig, Flores river, Argentina, S. A	29.94	760.5	77.0	25.0	77	e.			4		5		e	0	0	light	e.	fair.
S. S. Donau, N. 40° 46′, W. 67° 50′	29.84	757.9				e.			1		10		sw.	rain	rain	sm'h	ene.	cloudy.
S. S. Neckar, N. 49° 03′, W. 30° 25′	29.47	748.5	50.0	10.0	86	w.			2		4		w.	3 h'r	3 h'r	mod.	w.	fair.
S. S. Oder, N. 40° 30′, W. 70° 21′	29.81	757.2	41.9	5.5		calm			0		10			0	0	mod.	var.	foggy.
S. S. Salier, Browershaven, Netherlands*†	30.51	774 9				ene.			2		5		ene.	0	0			fair.
S. S. Strassburg, S. 16° 28′, W. 37° 26′	30.13	765.3	81.0	27.2	83	e.			3–4		8?		e.	0	0	mod.	e.	clear.?
S. S. Werra, N. 50° 06′, W. 4° 00′	30.34	770.6	44.6	7.0		e.			5–6		2		ese	0	0	high	ese.	clear.
S. S. Belgic, N. 34° 53′, W. 170° 37′*†	29.08	753.9	59	15.0	59	w.			6		3		w.	0	0	rg'h	sw.	fair.
S. S. Coptic, N. 28° 02′, E. 125° 32′	30.35	770.9	54.5	12.5	90	ne.			5		5?		ne.	0	0	sm'h	ne.	cloudy.?
S. S. Gaelic, N. 34° 40′, E. 157° 50′	30.27	768.8	55	12.8	100	var.			2		10			0	0	sm'h		cloudy.
S. S. Oceanic, N. 48° 30′, W. 171° 23′*	29.23	742.4	35	1.7	80	e.			2		4		s.			sm'h		fine.
S. S. City of Augusta, N. 33° 21′, W. 78° 13′ †	30.03	762.7				sse.			4		0		ne.	rain	rain	long	ne.	raining.
S. S. Mississippi, N. 47° 38′, W. 124° 50′			45	7.2		sW.			2		3		w.			h'vy	w.	fair.
S. S. Oregon, San Francisco, Cal†	30.35	770.9	51	10.6	86	calm			0		2		nw.					hazy.
S. S. Ancon, N. 33° 44′, W. 118° 27′†	30.13	765.3	52	11.1	79	e.			2		0					sm'h		clear.
S. S. City of Chester, off Point Reyes, Cal *†	30.48	774.2	38	3.3	90	se.			4		fg.			0	0	long	sw.	foggy.
S. S. G. W. Elder, Tacoma, Wash. Ter†	30.48	774.2	38	3.3	81	calm			0		0			0	0			clear
S. S. State of California, Astoria, Oregon †	30.50	774.7	39	3.9	82	e.			3		4		ne.	0	0			fair.
S. S. Victoria, Oakland, Cal*†	30.33	770.4	50	10.0		nnw.			2		2		nne.					fair.
S. S. City of New York, S. 15° 36′, W 170° 58′†	29.91	759.7	82	27.8	83	nnw.			2		5		n.	0	0	h'vy	n.	fair.
S. S. City of Sydney, S. 31° 15′, E. 179° 08′ †	30.11	764.8	69	20.6	80	se.			4		2		se.	0	0	mod.	sse.	fair
S. S. City of Tokei, Hong Kong, China †	30.37	771.4	52	11.1	66	n			1		2		nne.	0	0	small	nw.	clear.
S. S. Colima, Champerico, Mexico †	29.98	701.5	75	23.9	80	nne.			4		3		n.	0	0	mod.	sse.	clear.
S. S. Grenada, N. 20° 23′, W. 105° 51′†	29.98	701.5	75	23.9	77	ese.			1		0			0	0	sm'h	nw.	hazy.
S. S. San José, N. 8° 54′ W. 79° 30′*†	29.92	700.0				nnw.			2	2 c	0	nw.		0	0			
S. S. Zealandia, Sydney, N. S. W*	30.10	764.5	69	20.6	85	e.			4		1		sw.					fine.
S. S. Muriel, St. Kitts, W. I*	30.09	764.3	80	26.7		e.			4		0			0	0	r'gh	e.	fair.
S. S. Caracas, N. 26° 20′ W. 69° 05′ †	30.22	767.6	74.5	23.6	90	se.			4		8		se.	2 h'r	2 h'r	mod.	sse.	fair.
S. S. Valencia, N. 14° 33′, W. 68° 15′†	30.10	764.5	81	27.2	83	e.			4		2		e.	0	0	mod.	e.	fine.
S. S. Belgenland, Antwerp, Belgium			35	1.7	90	var.			2		10			0	0			overcast.
S. S. Pennland, N. 50° 17′, W. 3° 18′	30.40	772.1	44	6.7	92	e.			3		2		e.	0	0	small	e.	clear.
S. S. Rhynland, N. 48° 50′, W. 36° 40′	29.43	747.5	40	4.4	73	WNW.			5		3		nw.	0	0	mod.	nw.	squally.
S. S. Switzerland, N. 50° 07′, W. 23° 59′†	29.55	750.6				sse.			2		10		sse.	0	0	long	ssw.	cloudy.
S. S. Waesland, N. 40° 32′, W. 70° 46′	29.87	758.7	41	5.0		ne.			2		10		ene.	2 h'r	2 h'r	long	e.	dense fog.
S. S. Maas, N. 41° 26′ W. 53° 53′	30.10	766.1	46.6	8.1		ese.			3		10			rain	rain	3	nw.	
S. S. Schiedam, N. 48° 30′, W. 27° 40′	29.75	755.6	51.0	10.9	86	WSW.			4		5		WNW.	2 h'r	2 h'r	long	w.	cloudy.
S. S. W. A. Scholton, N. 45° 26′, W. 49° 08′	30.13	765.3	27.4	—2.6	98	W.			0		8		w.	snow	snow	mod.	w.	fair.
S. S. State of Florida, N. 55° 15′, W. 10° 19′	30.20	767.1	50	10.0		sse			6		1		sse.	0	0	h'vy	ssw.	clear.
S. S. State of Georgia, N. 55° 19′, W 12° 19′†	30.13	765.3	50	10.0		s.			8		10		s.	0	0	h'vy		raining.
S. S. State of Indiana, N. 42° 33′, W. 57° 36′†	30.04	763.0	36	2.2		ese.			3		10		se.	6 h'r	6 h'r	sm'h		rain & sleet.
S. S. Plantyn, N. 40° 16′, W. 70° 49′	29.86	758.4							2		2		n.	0	0	sm'h	se.	foggy.
S. S. Baltic, N. 51° 03′ W. 14° 42′*	29.83	757.7	51	10.6	86	s.			6		8		s.			r'gh	ssw.	d. clouds.
S. S. Britannic, N. 40° 33′, W. 69° 54′†	29.83	757.7	40	4.4	91	s.			3		10		ssw.	2 h'r	2 h'r	mod.	se.	overcast.
S. S. Germanic, N. 51° 34′, W. 22° 57′†	29.59	751.6	51	10.6		ese.			3		0		sw.	5 h'r	5 h'r	mod.	w.	drizzling.
S. S. Lepanto, N. 42° 30′, W. 70° 20′			20	—6.7		nw.			4		6		nnw.	snow	snow			overcast.
S. S. Romano, N. 48° 34′, W. 26° 53′*†	29.45	748.0	47	8.3		sW.			5		8		sw.	2 h'r	2 h'r	r'gh	wsw.	cloudy.
S. S. Salerno, N. 45° 19′, W. 47° 21′	29.99	701.7	28	—2.2		WNW.			5		10		wnw.	2 h'r	2 h'r	h'vy	nw.	snowing.
S. S. Aries, N. 41° 20′, W. 71° 30′*†	29.74	755.4				ne.			5		10			0	0	long	ese.	
S. S. Catherine Whiting, Fire Island, N. Y †	29.93	700.2				n.			5					rain	rain	long	e.	
S. S. Norman, N. 41° 35′, W. 69° 54′						WNW.			5		fg.			0	0	h'vy	ene.	dense fog.
S. S. Saxon, N. 42° 20′, W. 70° 45′†	29.83	757.7	17	— 8.3		nw.			3		10			0	0	short	ene.	foggy.
MISCELLANEOUS.																		
Schr. Abbie H. Gheen, N. 31° 40′, W. 80° 30′ †	30.06	763.5	64	17.8		ese.			2		2		se.	light	light		ese.	raining.
Bk. Adelaide, N 3° 10′, W. 29° 58′*†	29.99	761.7	82	27.8		se.			5		5		se.	7 h'r	7 h'r	mod.	se.	squally.
Bk. Alpha, N. 7° 59′ W. 49° 30′ *†	30.00	762 0	84	28.9		ene.			5		3		e	0	0	mod.	e.	fair.
Schr. Anna A. Holton, N. 22° 14′, W. 96° 37′†	30.09	764.3	75	23.9		NNW.			4		2		n.	1 h'r	1 h'r	r'gh	n.	clear.
Bk. Anna Thormann, S. 30° 45′, E. 11° 14′	30.11	764.8	66.9	19.4	72	sSW.			4		3 k		sw.	0	0	long	ssw.	fair.
S. S. Antonio Lopez, Cadiz, Spain	30.14	765.5	60.5	15.8	76	s.			3	7 c	0			0	0			hazy.
Bk. Aquidneck, N. 27° 50′, W. 67° 38′ *†	30.40	772.1	82	27.8		e. to se.			2		0			0	0			clear.
Bgt. Arthur, S. 1° 00′, W. 20° 53′*†	30.00	702.0				se.			4		1		se.	0	0	mod.	var.	
Bk. B. F. Watson, N 20° 10′, E. 126° 14′ †	30.07	763.8	80	26.7		e.			3		4			8 h'r	8 h'r	mod.		fair.
Bg. Belle of the Bay, Galveston, Texas †	30.03	762.7				nne.			3		2		ne.	0	0			clear.
Bk. Bremen, N. 49° 17′, W. 5° 20′*	30.28	709.1				e.			5		5		sse.	0	0	cross	var.	fair.
S. S. Buswell, N. 41° 23′, W. 44° 14′*†	29.92	760.0	50	10.0		nnw.			6		10		nw.	3 h'r	3 h'r	high	nnw.	squally.
Bk. Champion, Philadelphia, Pa			44	6.7		WSW.			3		10		sw.	rain	rain			fair.
Bk. Commerce, N. 37° 40′, W. 44° 21′ †	30.08	764.0	51	10.6		nw.			5		5		nw.	10 h'r	10 h'r	long	nw.	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Bk. E. D. Bigelow, N. 48° 14′ W. 14° 00′*†	29.75	755.6				se.			9		5		se.	0	0	cross	sse.	hazy.
Schr. Edith R. Seward, Wilmington, N. C†.	30.01	762.2	53	11.7		calm			0		5			8 h'r	8 h'r			hazy.
Bk. Edmund Phinney, N. 3° 05′, W. 31° 32′†	29.97	761.2	82	27.8		ese.			5		6		ese.	shr's	shr's	cross		fair.
S. E. J. Spicer, Liverpool, Eng.	30.36	771.1	49	9.4	?	se.			1		10			24 h'r	24 h'r			dense fog.
Bk. E. L. Pettingill, S. 26° 28′, W. 120° 01′ *†	30.20	767.1	74	23.3		se.			3		8		se.	sh'rs	sh'rs	mod	ssw.	cloudy.
Bk. Essex, Majambo, Madagascar*†	29.90	759.4	90	32.2		nnw.			5					sh'rs	sh'rs	mod	ssw.	
Schr. F. E. McDonald, N. 30° 34′, W. 81° 13′†	29.99	761.7	60	15.6		sse.			1		9			0	0	sm'h	se.	
U.S. F. C. S. S. Fish Hawk, Washington, D. C †.	29.95	760.7	40	4.4	82	calm			0		10							cloudy.
S. S. Foscolia, N. 51° 10′, E. 2° 10′.			73	22.8		calm			0		1		e.	0	0			fine.
Bk. Freya, Matanzas, Cuba, W. I.						nne.			4		10		ne.	0	0	sm'h		hazy.
Bg. George, Ponce, Porto Rico, W. I*†.	30.19	766.8				ne.			1		2		e.	light	light	mod.		clear.
S. Geo. Stetson, N. 13° —′, W. 32° —′ *†.	30.09	764.3	73	22.8	76	ene.			6		4?		ene.	0	0	chop	ene.	cloudy.?
Bk. Gronsvaer, Auckland, N. Z.	30.16	766.1	72.0	22.2		nne.			5		2		ne.	0	0			clear.
Bk. Hattie G. McFarland, Demerera, Brit. Guiana†*.	30.10	764.5	78	25.6		e.			4		6		e.	3 h'r	3 h'r			showery.
Schr Hattie Weston, N. 29° 00′, W. 60° 10′ *†.	30.33	770.4	69	20.6		sw.			3		2		sw.	0	0	mod.	nw.	clear.
S. Hedwig, N. 42° 48′. W. 38° 59′.	29.75	755.6	45.5	7.5		nw.			8–9		8		nw.	10 h'r	10 h'r	6	nw.	squally.
Schr. Isabel Alberto, Jersey City, N. J †.	29.25	742.9				wnw.			1		10		w.	light	light			cloudy.
Bk. Johanne, N. 50° 54′, W. 4° 18′*†.	30.47	773.9	50	10.0		e.			5		8		ene.	0	0	mod.	e.	hazy.
Schr. John L. Thomas, N. 28° 10′, W. 66° 18′ *†.	30.28	769.1				ssw.			1		2		s.	0	0	mod.	se.	fine.
Bkt. Josephine, S. 1° 43′, W. 28° 26′†.	29.96	761.0	83	28.3	75	se.			5		2		se.	0	0	mod.	se.	fair.
S. S. J. W. Wilson, Port Eads, La. *†.	29.93	760.2	60	15.6		nnw.			5		10			9 h'r	9 h'r			cloudy.
Light House Tender Laurel, Key West, Fla†.	30.08	764.0	74	23.3		ese.			1		6		ese.	0	0			fair.
Bg. Lilian, N. 9° 55′, W. 57° 35′†.	30.11	764.8	81	27.2		e.			5		5		var.	½ h'r	½ h'r	r'gh	ne.	squally.
Bk. Louise Adelaide, Vera Cruz, Mexico.						nnw.			4		5		n.	0	0	r'gh	n.	fine.
Bg. L. & W. Armstrong, N. 30° 47′, W. 71° 11′*†.	30.18	766.6				sw.			4		7		sw.	0	0	sm'h	s.	clearing.
S. S. Malabar, N. 39° 17′, E. 0° 36′ †.	30.07	763.8				w.			2				w.	0	0	sm'h		cloudy.
Schr. Minnie A. Bonsall, Jacksonville, Fla †.	30.08	764.0	70	21.1		sse.			1									light rain.
S. Minnie N. Gerow, N. 36° 40′, W. 70° 12′*†.	29.84	757.9				nw.			3		10					long	n.	squally.
S. M. P. Grace, S. 43° 10′, W. 39° 54′ *.	29.72	754.9	52	11.1		sw to e			4		6		wnw.	0	0	mod.	n.	fine.
Bg. Myrtle, N. 28° 00′, W. 58° 25′*†.	30.10	764.5				ssw.			1		0			0	0	sm'h		fair.
Bkt. Norena, N. 26° 40′, W. 76° 30′*†.	30.21	767.3				sse.			2		1		s.	0	0	sm'h		fine.
Bg. O. C. Clary, Miragoane, Hayti, W. I.*†.	30.06	763.5	82	27.8	91	calm			0		0							
Bk. Ottawa, N. 37° 14′, W. 0° 50′*.	30.07	763.8	60	15.6		calm			0		2		wsw.	0	0	sm'h		clear.
S. Paramita, San Francisco, Cal†.	30.27	768.8	48	8.9		ne.			3					0	0			clear.
Schr. Pearl Nelson, Hampton Roads, Va *†.	30.00	762.0	41	5.0		s.			6		10		s.					foggy.
S. S. Raleigh, Kingston, Jamaica, W. I*†.	29.99	761.7	80	26.7		calm			0		0			0	0			
Bk. Reindeer, N. 28° 05′, W. 61° 15′*.	30.18	766.6				ssw.			1		5		sw.	0	0	long	n.	
S. Rudolph, N. 51° 12′ E. 1° 38′.			40.5	4.7		nne.			5		3		s.	0	0	mod.	ne.	hazy.
Schr. S. B. Hubbard, Jacksonville, Fla*†.	30.21	767.3	69	20.6		calm			0		fg.			0	0			foggy.
Bk. Send, N. 30° 23′, W. 60° 35′ *†.	30.25	768.3	71	21.7		wsw.			5		5		w.	driz.	driz.	mod.	n.	
Bk. Southern Belle, N. 34° 21′, W. 23° 45′*†.	29.90	759.4	64	17.8		wsw.			3		10		sw.	½ h'r	½ h'r	long	wnw.	cloudy.
S. Sovereign of the Seas, N. 7° 02′, W. 115° 48′ *†.	30.01	762.2	76	24.4	95	sw.			4		10			18 h'r	18 h'r	cross	var.	light rain.
Bk. Sunbeam, N. 40° 55′, W. 14° 59′*†.	29.90	759.4	60	15.6	100	s.			6		10		s.	0	0	cross	var.	cloudy.
S. S. Sunbeam, N. 27° 25′, W. 86° 47′.	30.03	762.7	72	22.2	90	sw.			4		9		s.	11 h'r	11 h'r	3	s.	showery
S. Titan, N. 34° 56′, W. 52° 26′*†.	30.18	766.6	64	17.8	89	ese.			2		10		s.	3 h'r	3 h'r	r'gh	var.	cloudy.
Bk. Vincenzo Accame, N. 36° 50′. W. 75° 45′.			50	10.0		nw.			3		10		wnw.	15¾	hours			rainy.
Bk. Wandering Jew, Montevideo, Uruguay †.	30.00	762 0	73	22.8		e.			3		3		e.	0	0			clear.
Schr. Wm. Wiler, St. Johh's River, Fla†.	30.11	764 8				sw.			1		2		sw.	2 h'r	2 h'r			hazy.
Bk. Xenia, N. 35° 20′, W. 59° 27′*†.	30.09	764.3	69	20.6		w.			7		7		w.	10 h'r	10 h'r	cross	var.	cloudy.

International Chart I. January 7, 1883. Isobars and Isotherms.



By Order of the Secretary of War.
W.B.Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 8, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.13	765.2	61.9	16.6	87	ne.	.....	.....	6	.....	3	.....	.....	0	0	pretty fair...	Malaterre.
Algiers	.....	.....	30.15	765.7	56.5	13.6	80	calm	.....	.....	0	.....	8	.....	.....	0	0	very cloudy	Thève.
La Calle	.....	.....	30.16	766.0	57.2	14.0	78	wnw.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair..	Fonfréde.
Tunis	.....	.....	30.17	766.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.20	767.1	63.3	17.4	68	w.	.....	.....	3	.....	5	.....	.....	0	0	cloudy..	Pérès.
Tebessa	.....	.....	30.22	767.6	54.7	12.6	87	w.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Dognon.
Geriville	.....	.....	.....	.....	57.2	14.0	69	sw.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair...	Louchamp.
Laghouat	.....	.....	30.30	769.7	59.0	15.0	39	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Abraham.
Biskra	.....	.....	30.26	768.6	56.8	13.8	55	calm	.....	.....	0	.....	5	.....	.....	0	0	cloudy.....	Malau.
Australian.																			
Melbourne, Victoria	29.88	758.9	29.97	761.2	56.4	13.6	78	s.	5	2.2	.....	.....	2	.....	.....	0.07	1.8	fine.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.71	754.5	30.30	769.6	22.3	— 5.4	90	ne.	.....	.....	1	.....	10	.....	.....	0	0	.....	Prof. Ivan Stozir.
Oracow, I. R Observatory	29.49	749.1	30.32	770.0	23.7	— 4.6	68	wnw.	6.3	2.8	.....	.....	10	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.39	746.4	30.35	771.0	14.0	—10.0	67	calm	.....	.....	0	0	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.97	735.8	30.32	770.0	22.5	— 5.3	68	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.80	731.6	30.39	771.9	10.4	—12.0	93	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.78	731.1	30.24	768.0	19.8	— 6.8	73	ene.	.....	.....	3	c	3 k	.....	.....	0	0	slightly cl'dy	The Staff.
Lemberg	29.15	740.3	30.21	767.4	20.7	— 6.3	69	nw.	.....	.....	3	.....	10	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.69	678.0	30.28	769.2	22.6	— 5.2	85	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	29.84	758.0	29.96	761.0	32.7	0.4	70	ene.	.....	.....	3	.....	10	.....	.....	0.087	2.2	snowing.....	I. R.Hydrographic Office.
Szathmar	.....	.....	.....	.....	18.0	— 7.8	66	e.	.....	.....	2	.....	.....	.....	.....	inap.	inap.	.....	Joseph Midlinszky, S. J.
Szegedin	30.02	762 4	30.32	770.1	21.9	— 5.6	60	n.	.....	.....	3	.....	3	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.93	760.1	30.02	762.6	30.6	— 0.8	85	ne.	.....	.....	7	.....	7	.....	.....	0	0	.....	Royal Academy.
Vienna	29.58	751.4	30.36	771.2	20.8	— 6.2	69	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Central Met, Obs'
British.																			
Aberdeen	30.22	767.6	30.32	770.1	37.6	3.1	85	s.	8	3.6	.....	.....	9	.....	.....	0	0	misty.....	W. Boswell
Armagh, Observatory	29.94	760.5	30.18	766.6	38.4	3.6	80	e.	14	6.3	.....	.....	0	.....	.....	.....	.....	blue sky.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.24	768.1	33.0	1.1	80	ese.	18	8.0	.....	.....	7	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.68	753.9	30.24	768.1	33.7	0.9	89	ese.	6	2.7	.....	.....	0	.....	.....	.....	.....	blue sky.....	Thomas Mackereth.
Bradford, Yorkshire	29.87	758.7	30.27	768.8	34.9	1.6	89	ne.	.....	.....	2	.....	8	.....	.....	0.01	0.3	d. clouds	Mcl.andsborough&Preston'
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	80.0	26.7	69	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Corpl.J.Surgenor, A. H.C.
Cardington	.....	.....	.....	.....	37.0	2.8	80	e	.....	.....	0.6	.....	4	.....	.....	.....	.....	d. clouds....	John McLaren.
Chatham, School M. E	30.09	764.3	30.22	767.6	40.4	4.7	74	e.	.....	.....	2	.....	1	.....	.....	.....	.....	misty.....	Corpl. G. A. Pickles.
Falmouth, Observatory	29.78	756.4	30.01	762.2	44.8	7.1	62	e.	.....	.....	6	.....	5	.....	.....	.....	.....	squally.....	The Staff.
Fort Napier, Natal	27.65	702.3	29.87	758.7	83.0	28.3	49	e.	.....	.....	1	.....	4	.....	.....	.....	.....	blue sky.....	Corpl. F. Milner, A. H. C.
Galway	29.96	761.0	30.00	762.0	40	4.4	73	e.	.....	.....	4	.....	4	.....	.....	0	0	gloomy.....	Wm. Ryan.
Gibraltar, Mediterranean	29.84	757.9	29.90	759.4	64.0	17.8	94	.....	.....	.....	.....	.....	7	.....	.....	.....	.....	gloomy.....	Sgt. J. Norris, A. H C.
Glasgow, Observatory	30.06	763.5	30.27	768.8	35.2	1.8	88	ene.	.....	.....	3	.....	10	.....	.....	.....	.....	d. clouds....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.03	762.7	30.21	767.3	40.2	4.6	77	ene.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky.....	The Staff.
Guernsey	29.64	752.8	29.95	760.7	41.5	5.3	61	ese.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky.....	A. Collenette, F. M. S.
Kew, Observatory	30.17	766.3	30.20	767.1	39.1	3.9	71	ene.	23	10.3	.....	.....	0	.....	.....	.....	.....	misty.....	The Staff.
Leicester, Museum	29.98	761.5	30.25	768.3	38.3	3.5	86	ne.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.93	760 2	30.09	764.3	58.4	14.7	93	sw.	.....	.....	2	.....	9	.....	.....	0.17	4.3	overcast.....	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.05	763.3	30.10	764.5	71.0	21.7	95	sw.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	C. S. Duncombe
Oscott, St. Mary's College	29.69	754.1	30.23	767.8	34.8	1.6	81	e.	.....	.....	4	.....	7	.....	.....	.....	.....	d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.98	761.5	30.21	767.3	37.8	3.2	79	ene.	.....	.....	3	.....	1	.....	.....	.....	.....	blue sky.....	The Staff.
Plymouth	29.98	761.5	30.05	763.3	41.4	5.2	81	e.	.....	.....	6	.....	1	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.16	766.1	30.26	768.6	39.8	4.3	88	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	misty.....	Rev. C. Clouston, L.L D.
Scutari Cemetery, Turkey	30.20	767.1	30.27	768.8	35.6	2.0	61	sse.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky.....	W. H. Lyne.
Sheffield	29.99	761.7	30.28	769.1	36.8	2.7	80	ese.	.....	.....	1	.....	10	.....	.....	0.01	0.3	overcast.....	W. F. Cooper.
Silloth Rectory	30.22	767.6	30.25	768.3	33.5	0.8	84	e.	.....	.....	4	.....	0	.....	.....	0	0	blue sky.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.27	768.8	34.7	1.5	75	e.	14	6.3	.....	.....	5	.....	.....	.....	.....	d. clouds....	Rev. S. J. Perry.
Stratfield Turgiss	29.99	761.7	30.22	767.6	34.4	1.3	90	ne.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky.....	Rev.C.H.Griffiths, F.M.S.
Truro, Royal Institution	29.95	760.7	30.00	762.0	47	8.3	62	e.	.....	.....	7	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.88	758.9	29.90	759.4	45.5	7.5	60	e.	38	17.0	.....	.....	6	.....	.....	.....	.....	gloomy.....	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.87	758.7	29.92	760.0	8	—13.3	80	w.	8	3.6	.....	2 cs	2 s	calm	calm	0.335	8.5	fair.....	H. J. Cundall, C E
Chatham, N. B*	29.90	759.4	29.97	761.2	3	—16.1	91	w.	5	2.2	.....	0	0	.....	.....	0.52	13.2	clear.....	G. A. Blair.
Cornwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Dalhousie	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Father Point, Quebec*	30.02	762 5	30.04	763.0	0	—17.8	83	nw.	8	3.6	.....	0	5 8	.....	calm	0.20	5.1	clear.....	J. McWilliams.
Fort Garry, Manitoba*	29.44	747.8	30.44	773.2	—26	—32.2	100	w.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	James Stewart.
Halifax, N. S*	29.85	758 2	29.99	761.7	17	— 8.3	83	w.	8	3.6	.....	0	0	.....	.....	0.440	11.2	clear.....	A. Allison.
Kingston, Ontario*	29.78	756.4	30.14	765.5	14	—10.0	87	e.	4	1.8	.....	.....	10 8	.....	.....	0.08	2.0	cloudy.....	A. P. Knight, M. A.
Montreal, Quebec*	29.94	760.5	30.17	766.3	10	—12.2	66	s.	9	4.0	.....	.....	10 8	.....	.....	0.14	3.6	cloudy.....	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.34	745.2	30.09	764.3	14	—10.0	83	e.	4	1.8	.....	.....	10 n	.....	e.	0	0	cloudy.....	Rev. R. Mosley.
Port Dover, Ontario	29.39	746.5	30.14	765.5	15	— 9.4	100	n.	5	2.2	.....	.....	10 n	.....	.....	inap.	inap.	threatening.	H. Morgan.
Port Stanley, Ontario	29.44	747.8	30.13	765.3	17	— 8.3	87	n.	2	0.9	.....	.....	10 n	.....	n.	0.02	0.5	light snow..	M. Payne.
Quebec, Quebec*	29.78	756.4	30.14	765.5	2	—16.7	87	nw.	.....	.....	3	.....	8 k	.....	.....	0.50	12.7	cloudy.....	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.53	750.0	30.05	763.3	— 1	—18.3	91	sw.	1	0.4	.....	.....	10 8	.....	sw.	0	0	cloudy.....	W. H. McIntyre.
Saugeen, Ontario*	29.34	745.2	30.10	764.5	22	— 5.6	92	nw.	13	5.8	.....	.....	10 ks	.....	.....	0.15	3.8	cloudy	
St. Andrews, N. B	30.10	764.5	30.15	765.8	14	—10.0	81	nw.	2	0.9	.....	0	0	.....	.....	0.18	4.6	clear.....	
Sydney, C. B*	29.66	753.4	29.73	755.1	21	— 6.1	87	sw.	12	5.4	.....	2 c	5 ks	.....	w.	0.52	13.2	fair.....	T. C. Hill, C. E
Toronto, Ontario*	29.73	755.1	30.15	765.8	17	— 8.3	73	nw.	6	2.7	.....	.....	10 n	.....	.....	0.02	0.5	cloudy.....	Magnetic Observatory.
Yarmouth, N. S*	30.04	763.0	30.11	764.8	25	— 3.9	84	nw.	4	1.8	.....	3 cs	0	w.	.....	0.22	5.6	fair.....	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	29.94	760.5	29.97	761.2	74.0	23.3	79	sw.	9.3	4.2	.....	0	0	.....	.....	0	0	clear.....	John Duthie.
Springbolt Fontein	27.85	707 4	.....	.....	81	27.2	35	ssw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
Chinese (Sub-series).																			
Sung-shu-chwang	24.71	627.6	.....	.....	19.0	— 7.2	.....	calm	.....	.....	0	.....	5	.....	.....	.....	.....	cloudy	
Tchang-kia-tchouang	30.23	767.8	30.34	770.6	28.4	— 2.0	48	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	**Mission, S. J.**
Zi-Ka-Wei, near Shanghai	30.47	773.8	30.49	774.4	30.0	— 1.1	86	ese.	3.4	1.5	.....	.....	2	.....	.....	0	0	clear	**M. Marc Dechevrens, S.J**
Danish.																			
Copenhagen	30.29	769.3	30.34	770.5	34.0	1.1	90	s.	7	3	.....	.....	10	.....	.....	.....	.....	rain & haze	**Oversergent Fischer.**
Fanoe	30.32	770.1	30.34	770.6	33.3	0.7	92	e.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	29.50	749.3	29.54	750.4	16.0	— 8.9	88	nne.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Ivigtut, Greenland	29.41	747.0	29.43	747.5	11.8	—11.2	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	**S. Kleinschmidt.**
Jacobshavn, Greenland	29.77	756.1	29.82	757.3	4.3	—15.4	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.43	747.6	29.48	748.7	40.3	4.6	89	s.	.....	.....	8	.....	4	.....	.....	.....	.....	.....	
Thorshavn	30.20	767.1	30.24	768.0	43.5	6.4	81	s.	7	3	.....	.....	2	.....	.....	.....	.....	raining	**A. O. Thorlacius.**
Vestervig	30.28	769.1	30.37	771.4	32.4	0.2	96	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Upernavik, Greenland	29.86	758.4	29.91	759.6	1.9	—16.7	.....	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	**Loerer Oesterbol.**
French.													4						
Agen, Normal School	29.26	743 3	29.93	760.3	38.1	3.4	80	calm	.....	.....	0	ck	n	.....	.....	.....	.....	.....	
Alençon, Normal School	29.51	749.6	30.09	763.6	32.4	0.2	96	ene.	.....	.....	1	.....	.....	.....	.....	0	0	.....	**M. Labroue, Director.**
Arras, Engineer School	29.91	759.8	30.19	766.7	32.9	0.5	100	.....	.....	.....	1	.....	10	.....	.....	0	0	.....	**M. Nicot, Director.**
Avignon, Normal School	29.88	753.9	29.96	760.9	40.6	4.8	66	n.	.....	.....	1	.....	5	.....	.....	0.020	0.5	covered	**M. Fénéon, Command't.**
Bar-sur-Seine	29.51	749.5	30.10	764.5	30.7	— 0.7	93	e.	.....	.....	1	o	5 k	.....	s.	0	0	cloudy	**M. Giraud, Director.**
Beauvais, Normal School	29.88	758 9	30.12	765 1	32.4	0.2	74	ene.	.....	.....	2	.....	0	.....	e.	0	0	cloudy	**M. Saillard, Director.**
Besançon, Normal School	29.09	738.9	30.03	762.7	35.6	2	64	nne.	.....	.....	1	.....	10 n	.....	.....	0	0	clear	**M. Frère Eugène Marie.**
Bordeaux, Observatory	29.60	751.8	29.87	758.7	37.4	3.0	86	ese.	.....	.....	1	.....	8	.....	sw.	.....	.....	raining	**M. Gobin, Director.**
Bourges, Normal School	29.45	748.0	30.03	762.7	36.7	2.6	72	nne.	.....	.....	1	.....	1	.....	.....	0.004	0.1	very cloudy	**M. Rayet, Director.**
Brest, Naval Observatory	29.72	754.8	29.96	761.0	41.4	5.2	69	e.	.....	.....	2	.....	0	.....	nne.	0	0	clear	**M. Malet, Director.**
Caen, Normal School	29.97	761.3	30.05	763 2	31.6	— 0.2	81	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. de Kermaree, Dir.**
Châlons-sur-Marne, N.Sch'l	29.77	756.1	30.11	764 7	26.6	— 3.0	.....	e.	.....	.....	2	.....	0	.....	.....	0	0	clear	**M. Berson, Director.**
Charleville, Normal School	29.61	752.0	30.01	762.3	34.2	1.2	82	nne.	.....	.....	2	.....	2	.....	ne.	0	0	slightly cl'dy	**M. Jadot, Director.**
Clermont-Ferrand Obs'y	.....	.....	.....	.....	30.2	— 1.0	90	n.	.....	.....	1	.....	5	.....	.....	0	0	½ covered	**M. Grimard, Director.**
Cluny, Normal School	29.16	740 7	30.03	762.8	27.7	— 2.4	93	n.	.....	.....	1	.....	10	.....	.....	0.004	0.1	covered	**M. Allnard, Director.**
Commercy, Normal School	29.23	742.5	30.14	765.5	29.1	— 1.6	84	e.	.....	.....	1	.....	.....	.....	n.	0	0	.....	**M. de Villemontée, Dir.**
Gap, Normal School	27.40	695 9	30.03	762.8	32.0	0	81	.....	.....	.....	3	.....	2 k	e.	e.	0	0	slightly cl'dy	**Dr. Coulet, Director.**
Gréasque, du Rhone	28.79	731.3	29.97	761.1	37.6	3.1	97	n.	.....	.....	1	o	2 n	.....	sw.	0	0	.....	**M. Jeanginard, Director.**
Grenoble, Normal School	29.21	741.8	30.01	762.3	33.4	0.8	92	e.	.....	.....	1	.....	10	.....	n.	0.012	0.3	.....	**M. Kint, Director.**
Guéret	28.32	719.3	29.93	760.3	33.1	0.6	88	e.	.....	.....	1	2 ck	0	s.	.....	0	0	slightly cl'dy	**M. Abbard, Director.**
Lamballe, Normal School	29.70	754.4	29.99	761.7	35.6	2	64	e.	.....	.....	1	2 c	0	e.	.....	0	0	slightly cl'dy	**M. Delorme, Dir.**
Lescar, Normal School	29.17	740 8	29.74	755.3	45.0	7.2	71	e.	.....	.....	2	.....	1	.....	e.	0	0	clear	**M. Olhtrault, Director.**
Lorient, Naval Observatory	29.86	758.4	29.99	761.0	40.3	4.6	65	ene.	.....	.....	1	o	5 8	.....	.....	0	0	cloudy	**M. Chauvin, Director.**
Lyon, St. Genis-Laval	28.94	735.0	30.05	763.2	29.8	— 1.2	99	nnw.	.....	.....	2	.....	0	.....	.....	0	0	clear	**Lt. T. Carré, Director.**
Mans, Normal School	29.76	755.8	30.08	761.0	31.1	— 0.5	71	se.	.....	.....	1	ck	n	sse.	nnw.	0	0	.....	**M. André, Director.**
Marseille, Observatory	29.99	754.0	29.96	761.0	44.6	7.0	94	ene.	.....	.....	3	.....	0	.....	.....	0	0	clear	**M. Piboëu, Director.**
Montlouis	24.61	625.0	29.45	748.0	33.8	1.0	46	sw.	16.8	7.5	1	.....	10	.....	s.	0.299	7.6	raining	**M. Stephan, Director.**
Montpellier, Normal School	29.81	757.1	29.94	760.4	44.2	6.8	74	ne.	.....	.....	.....	.....	0	.....	.....	0	0	.....	**M. Carré for Dr. Finas.**
Nancy, Normal School	29.26	743.2	30.10	764.5	27.0	— 2.8	92	n.	.....	.....	3	.....	0	.....	.....	0	0	clear	**M. Gulzin, Director.**
Nantes, Observatory	29.83	757.6	29.99	761.7	37.9	3.3	99	ene.	.....	.....	1	.....	.....	.....	.....	0	0	.....	**M. Hasse, Director.**
Perpignan, Observatory	29.82	757.5	29.94	760.4	44.2	6.8	84	e.	5.6	2.5	1–2	.....	0	.....	.....	0	0	clear	**M. Larocque, Director.**
Pic-du-Midi, Summit	20.94	532.0	.....	.....	23.0	— 5.0	.....	w.	.....	.....	1	.....	10	.....	se.	0	0	.....	**Dr. Finas, Director.**
Privas, Normal School	28.84	732.5	29.95	760.6	37.4	3	86	n.	.....	.....	1	.....	5	.....	w	0	0	cloudy	**M. Vaussenat.**
Puy de Dôme Obs'y, Summit	24.89	632.3	.....	.....	24.6	— 4.1	100	ese.	.....	.....	1	10	n.	n.	o	0	0	covered	**M. Tailleu.**
Rochefort, Naval Obs'y	29.87	758.8	29.91	759.6	40.6	4.8	71	ene.	.....	.....	3	.....	0	.....	.....	0.075	1.9	.....	**M. Allnard, Director.**
Roche-sur-Yon, N. School	29.68	753.9	29.99	759.5	38.5	3.6	67	e.	.....	.....	3	.....	0	.....	.....	0.28	7.	clear	**Lt. E. Decante, Director.**
Rodez, Normal School	27.70	703.6	29.88	759.0	43.2	6.2	82	sw.	.....	.....	3	.....	0	.....	.....	0	0	clear	**M. Brotier, Director.**
Rouen, Normal School	30.10	764.6	30.15	765.8	36.0	2.2	88	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. Seger, Director.**
Saint Lô	.....	.....	.....	.....	35.6	2	55	.....	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. Moullot.**
Saint Maur, Observatory	29.94	760.5	30.11	764.7	32.5	0.3	69	ene.	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. Delaplanche, Dir.**
Toulouse, Observatory	29.20	741.6	29.92	759.9	41.0	5.0	92	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	**M. Renou, Director.**
Tours	29.85	758.2	30.03	762.8	34.9	1.6	74	ene.	.....	.....	1	.....	2	w.	.....	0	0	slightly cl'dy	**M. Baillaud, Director.**
Versailles, Observatory	29.58	751.4	30.08	763.9	32.0	0.0	.....	e.	.....	.....	2	.....	0	.....	.....	0	0	clear	**M. de Tastes.**
Sub-series.																			
St. Martin du Hinx	29.66	753.4	29.81	757.2	40.1	4.5	77	e.	7.8	3.5	.....	o	9 k	.....	w.	0	0	.....	**Dr. A. Bérigny, Director.**
German.																			
Ansbach	28.69	728.7	30.24	768.2	22.3	— 5.4	65	e.	.....	.....	4	.....	0	.....	.....	0	0	.....	**M. Cartier, Director.**
Bamberg	29.32	744.8	30.05	763.3	26.6	— 3.0	70	calm	.....	.....	0	o	3 8	.....	.....	0	0	.....	**Prof. Jnedt.**
Berlin	30.16	766.1	30.32	770.0	28.8	— 1.8	74	e.	.....	.....	2	.....	10	.....	.....	0	0	.....	**Prof. Dr. Hoh.**
Breslau	29.78	756.4	30.32	770.0	25.7	— 3.5	86	wnw.	.....	.....	1	.....	0	.....	.....	0	0	foggy	**Dr. Lensch.**
Carlsruhe	29.71	754.5	30.17	766.3	28.0	— 2.2	87	ne.	.....	.....	5	.....	0	.....	.....	0	0	.....	**Royal University Obs'y.**
Cassel	29.47	748.6	30.18	766.7	28.8	— 1.8	88	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	**Albert Senz.**
Frankfort-on-the-Main	29.82	757.5	30.21	767.4	29.3	— 1.5	58	ne.	.....	.....	1	.....	4	.....	.....	0.012	0.3	.....	**Dr. H. Möhl.**
Friedrichshafen	28.60	726.4	30.13	765.2	24.8	— 4.0	68	ne.	.....	.....	6	.....	10	ne.	.....	0	0	.....	**Physical Society.**
Hamburg	30.21	767.4	30.30	769.7	32.0	0	92	e.	.....	.....	3	.....	10	.....	.....	0.063	1.6	light fog	**Wilhelm, Chief Tel.**
Kiel	30.29	769 4	30.31	769.8	33.4	0.8	88	ese.	.....	.....	2	.....	10	.....	.....	0 020	0.5	snowing	**E. Preller.**
Leipsic, Astron'l Obs'y	29.85	758 3	30.30	769.7	26.9	— 3.0	63	e.	.....	.....	2	.....	6	.....	.....	0	0	.....	**Prof. Dr. G. Karsten.**
Magdeburg	30.08	763.9	30.28	769.1	29.3	— 1.5	82	e.	.....	.....	1	o	9 ks	.....	ne.	0.016	0.4	.....	**H. Leppig, Asst.**
Memel	30.16	766.1	30.21	767.3	32.9	0	98	nw.	.....	.....	3	.....	10	.....	.....	.....	.....	snow & fog	**Weather Observatory.**
Munich	28.24	717.2	30.10	764.6	21.4	— 5.9	74	ne.	.....	.....	2	.....	4	e.	.....	0	0	.....	**Issermann.**
Neufahrwasser	.....	.....	.....	.....	34.2	1.2	78	w.	.....	.....	2	.....	9	.....	.....	0.012	0.3	.....	**Central Station.**
Neustadt, Palatinate	29.62	752.4	30.15	765.8	28.4	— 2.0	80	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	**A. Lothes.**
Stuttgart	29.16	740.7	30.11	764.9	25.7	— 3.5	67	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	**Dicknether.**
Wustrow	30.33	770.3	30.35	770.9	32.4	0.2	92	e.	.....	.....	2	.....	10	.....	.....	0.091	2.3	foggy	**Prof. Dr. Schoder.**
Greek.																			
Athens	29.85	758.1	30.24	768.2	47.1	8.4	.....	n.	.....	.....	1.0	o	6 k	.....	.....	0	0	.....	**Profs. Brandes & Reimer.**
Indian.																			
Kurrachee	30.08	763.9	30.13	765.2	76.9	24.9	49	wsw.	12.0	5.4	.....	.....	7	sw.	.....	0	0	d. clouds	**Schmidt & Wourlisch.**
Deesa	29.54	750.4	30.02	762.6	77.6	25.3	30	calm	2.0	0.9	.....	.....	8	wsw.	.....	0	0	d. clouds	
Bombay	29.97	761.1	30.00	762.1	80.4	26.9	56	wnw.	10.0	4.5	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.12	714.1	29.97	761.2	81.8	27.7	25	ese.	5.0	2.2	.....	.....	3	w.	.....	0	0	d. clouds	
Belgaum	27.43	696.8	29.97	761.3	77.8	25.4	35	ese.	8.0	3.6	.....	.....	4	w.	.....	0	0	d. clouds	
Lahore	29.36	745.8	30.14	765.6	66.6	15.9	66	calm	0	0	.....	.....	10	.....	.....	0	0	gloomy	
Roorkee	29.18	741.2	30.12	765.0	64.8	18.2	60	calm	0	0	.....	.....	4	w.	.....	0	0	.....	
Agra	29.54	750.4	30.13	765.2	70.2	21.2	49	e.	2.0	0.9	.....	.....	6	.....	e.	0	0	d. clouds	
Nagpur	28.98	736.2	30.04	762.9	77.9	25.5	43	ssw.	3.0	1.3	.....	.....	2	w.	.....	0	0	d. clouds	
Jubbulpore	28.68	728.3	30.06	763.5	71.9	22.2	59	calm	2.0	0.9	.....	.....	6	.....	s.	0	0	d. clouds	
Lucknow	29.71	754.6	30.10	764.5	68.3	20.2	72	calm	0	0	.....	.....	3	.....	.....	0	0	d. clouds	
Allahabad	29.76	755.9	30.09	764.2	66.5	19.2	79	calm	0	0	.....	.....	10	w.	.....	0	0	overcast	
Patna	29.94	760.4	30.13	765.3	67.4	19.7	74	e.	2.9	1.3	.....	.....	4	e.	e.	0	0	d. clouds	
Hazaribagh	28.95	712.6	30.13	765.2	66.6	19.2	47	wsw.	2.9	1.3	.....	.....	7	.....	.....	0	0	d. clouds	
Cuttack	30.01	762.1	30.09	764.2	75.6	24.2	65	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	30.09	764.2	30.11	764.8	68.5	20.3	70	wnw.	0.5	0.2	.....	.....	2	.....	.....	0	0	d. clouds	
Dhubri	30.02	762.5	30.14	765.7	67.4	19.7	77	calm	1.9	0.8	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	30.04	762.9	30.13	765.2	68.1	20.1	78	nw.	2.1	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.82	757.4	30.18	766.5	59.9	15.5	88	e.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar	29.86	758.4	29.88	758.9	86.3	30.2	61	ne.	8.1	3.6	.....	.....	0	.....	.....	0.10	2.5	blue sky	
Jeypore	28.61	726.7	30.10	764.6	66.1	18.9	.....	.....	.....	.....	.....	.....	4	.....	ne.	0	0	d. clouds	
Bellary	28.50	723.9	.....	.....	78.2	25.7	54	ese.	3.5	1.6	.....	.....	4	.....	ese.	0	0	d. clouds	
Trichinopoly	29.75	755.6	.....	.....	80.2	26.8	44	se.	4	1.8	.....	.....	0	.....	.....	0	0	blue sky	
							57	ese.	1	0.4	.....	.....	4	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.																			
Udine	29.65	753 0	30.08	763.9	33.3	0.7	43	se.	13.6	6.1	.....	.....	8	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.56	750.8	30.10	764.6	32.0	0.0	78	nw.	3.8	1.7	.....	.....	8	wnw.	.....	0.020	0.5	.....	Prof. Schiapparelli.
Padua	29.95	760.6	30.06	763.5	33.8	1.0	87	nne.	0.3	2.8	.....	.....	9	e.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.15	740.5	30.10	764.5	33.3	0.7	90	ene.	0	0	.....	.....	10	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.79	756.7	29.99	761.7	34.7	1.5	66	ne.	11.9	5.3	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.10	713.7	30.10	764.5	24.3	— 4.3	81	w.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.94	760.4	29.99	761.7	30.6	— 0.8	88	nw.	0.7	0.3	.....	.....	10	.....	.....	0.291	7.4	.....	Prof. Luigi Guidi.
Florence	29.67	753.7	29.94	760.4	37.6	3.1	53	ne.	.....	.....	6	.....	2	.....	.....	0.118	3.0	.....	Prof. Costantino Pittei.
Leghorn	29.80	756.9	29.80	759.1	41.0	5.0	66	e.	10.5	4.7	.....	.....	2	.....	.....	0.071	1.8	.....	Prof. P. Monte.
Rome	29.60	751.8	29.78	756.3	41.9	5.5	86	nne.	0	0	.....	.....	10	.....	.....	1.587	40.3	.....	Prof. P. Tachini.
Lecce	29.65	753.1	29.91	759.7	48.0	8.9	89	ssw.	21.7	9.7	.....	.....	10	s.	.....	0.846	21.5	.....	Prof. C. de Giorgi.
Cosenza	29.02	737.1	29.03	760.3	51.1	10.6	75	sw.	4.3	1.9	.....	.....	9	w.	.....	0.472	12.0	.....	Prof. D. Conti.
Cagliari	29.71	754.7	29.91	759.7	52.3	11.3	85	nw.	.....	.....	4	.....	6	nw.	.....	0.118	3.0	.....	Prof. A. Pacinotti.
Palermo	29.67	753.7	29.93	760.1	55.0	13.1	58	wsw.	10.1	7.2	.....	.....	5	.....	.....	0.003	1.6	.....	Prof. G. Cacciatore.
Syracuse	29.93	760.1	29.97	761.2	58.8	14.9	68	sw.	9.4	4.2	.....	.....	10	wsw.	.....	0.071	1.8	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.21	742.0	29.74	755.4	51.8	11.0	73	wnw.	7.4	3.3	.....	.....	7	w.	.....	0.831	21.1	.....	Prof. F. Brioschi.
Stelvio	21.87	555.6	.....	.....	10.6	—11.9	92	ene.	.....	.....	2	.....	0	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	21.89	555.9	.....	.....	13.6	—10.2	67	nw.	.....	.....	2	.....	10	.....	.....	0.591	15.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.87	758.8	29.90	759.6	26.9	— 2.8	100	nw.	.....	.....	6	.....	10 n	.....	w.	0.260	6.6	snowing	Hattori.
Awomori	29.75	755.7	29.79	756.7	23.0	— 5.0	97	w.	28.7	12.8	.....	.....	9 n	.....	.....	0.237	6.0	snowing	K. Ogawa.
Hakodate	29.70	754.4	29.71	754.7	24.8	— 4.0	91	nw.	21.0	9.4	.....	0	5	.....	.....	0.032	0.8	fair	
Hamamatsu	30.11	764.8	30.14	765.5	39.9	4.4	64	w.	.....	.....	4	1 ck	0	wnw.	.....	0	0	clear	
Kagoshima	30.44	773.2	30.45	773.5	34.8	1.6	82	n.	.....	.....	2	0	0	.....	.....	0	0	clear	G. Miyanohaza.
Kioto	30.05	763.3	30.24	768.0	34.7	1.5	79	w.	2.7	1.2	.....	0	3 s;ck	.....	w.	inap.	inap.	fair	M. Tojima.
Kochi	30.28	769.1	30.30	769.6	30.0	2.2	76	nw.	1.6	0.7	.....	0	0	.....	.....	0	0	clear	K. Kusunose.
Miasaki	30.28	769.2	30.31	769.9	39.9	4.4	67	w.	.....	.....	2	0	0	.....	.....	0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.20	767.0	30.42	772.5	34.4	1.3	85	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Takehayashi.
Niigata	29.99	761.7	30.02	762 5	33.3	0.7	88	w.	15.5	6.9	.....	.....	10 n	.....	.....	0.275	7.0	light snow	M. Morita.
Nobiru	29.80	758.5	29.88	758.9	30.4	— 0.9	76	nw.	19.2	8.6	.....	.....	10 n	.....	.....	0.185	4.7	snowy	H. Midzushima.
Numazu	29.94	760.3	29.97	761.2	46.9	8.3	47	ssw.	.....	.....	6	0	0	.....	.....	0	0	clear	R. Kaneda.
Sakai	30.27	768.7	30.28	769.0	40.0	4.4	63	ssw.	.....	.....	4	0	0	.....	.....	0.008	0.2	clear	K. Yamawchi.
Sapporo	.....	.....	.....	.....	26.5	— 3.1	87	w.	12.4	5.5	.....	.....	10	.....	.....	.....	.....	snowing	
Tokei Obs'y, Yeddo	29.87	758.6	29.94	760.6	38.5	3.6	67	nnw.	5.4	2.4	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	30.21	767.3	30.27	768.7	39.9	4.4	64	nw.	3.0	1.3	.....	0	0	.....	.....	0.027	0.7	clear	Y. Kuwamnea.
Osaka	30.23	767.9	30.25	768.3	38.7	3.7	64	w.	14.0	6.3	.....	0	0	.....	.....	0	0	clear	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.83	757.7	30.02	762.5	82.7	28.2	53	ene.	12.0	5.4	.....	3 cs	2 k	wsw.	.....	0	0	fair	Oliver & Figon.
MEXICAN.																			
Alzata	.....	.....	.....	.....	55	12.8	84	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. Diaz Pena.
Guanajuato	23.68	601.6	29.90	759.0	50.2	10.1	95	calm	0	0	.....	2 c	1 k	.....	w.	0	0	fair	Prof. Vicente Fernandez.
Leon	24.36	618.7	30.19	766.8	47.1	8.4	85	nnw.	.....	.....	1	.....	10 ck	.....	w.	0	0	foggy	Prof. M. Leal.
Mazatlan	29.76	756.0	30.02	762.7	61.8	16.6	91	nw.	5.2	2.3	.....	2 cs	0	.....	.....	0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.10	586.7	30.26	768.5	47.7	8.7	80	calm	0	0	.....	1 c	1 ks	.....	.....	0	0	clear	The Staff.
Morelia	24.45	621.0	30.38	771.5	40.9	8.3	61	s.	.....	.....	3	3 c	3 k	e.	e.	0	0	½ cloudy	M. Tena, M. D.
Puebla, Catholic Institute	23.38	593.9	30.26	768.6	45.5	7.5	.....	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
Zacatecas	22.56	573.0	30.31	769.8	45.87	6.92	68	sw.	2.5	1.1	.....	2 ck	1 ks	w.	sw.	c	0	½ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.24	768.1	30.24	768.1	33.6	0.9	.....	ene.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Groningen	30.19	766.7	30.24	768.1	36.5	2.5	.....	ne.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Hellevoetsluis	30.25	768.3	30.25	768.3	32.2	0.1	90	e.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Utrecht	30.21	767.2	30.25	768.4	32.2	0.1	88	ne.	.....	.....	2	.....	10	.....	.....	0.004	0.1	dull	H. van der Brink.
Sub-series.																			
Batavia, Java	29.93	760 3	.....	.....	79.2	26.2	86	nne.	0	0	.....	.....	6	.....	.....	2.87	73.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.35	770.9	30.41	772.5	30.6	— 0.8	96	calm	0	0	.....	.....	10	.....	.....	0	0	foggy	
Brono	30.00	763.5	30.10	764.5	41.0	5.0	94	sw.	18	8	.....	.....	10	.....	.....	0.394	10.0	raining	
Christiania	30.22	767.7	30.38	771.7	25.7	— 3.5	93	e.	4	2	.....	.....	7	.....	.....	0	0	foggy	
Gjesvær	29.44	747.8	29.47	748.4	34.3	1.3	.....	wnw.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.80	750.8	29.84	758.0	40.1	4.5	83	wnw.	.....	.....	4–0	.....	9	.....	.....	0.118	3.0	.....	
PORTUGUESE.																			
Angra, Azores	29.61	752.1	29.77	756.2	49.3	9.6	70	nnw.	18.6	8.3	.....	.....	7	.....	.....	0.354	9.0	.....	Dr. J. A. Sampaio.
Campo Major	28.74	729.9	29.74	755.4	54.0	12.2	95	ssw.	13.0	5.8	.....	.....	10	.....	.....	0.370	9.4	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	29.07	753.7	29.70	755.9	65.3	18.5	59	wsw.	10.5	4.7	.....	.....	10	.....	.....	0.295	7.5	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.22	742.2	29.58	751.2	56.8	13.8	94	s.	22.4	10.0	.....	.....	10	.....	.....	0.543	13.8	.....	The Staff.
Ponta Delgada, Azores	29.69	754.1	29.70	755.9	54.7	12.6	61	nw.	15.4	6.9	.....	.....	3	.....	.....	0.701	17.8	.....	
Saint Paul de Loando	29.71	754.7	29.91	759.8	79.0	26.1	82	w.	1.8	0.8	.....	.....	0	se.	.....	0	0	.....	
Serra da Estrella	24.90	632.4	29.68	753 9	37.0	2.8	100	se.	24.2	10.8	.....	.....	10	.....	.....	0.799	20.3	rain & fog	
RUSSIAN.																			
Akmolinski	29.16	740.7	30.37	771.3	3.0	—16.1	87	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Major K. Lasarew.
Archangel	29.94	760.5	29.90	761.0	9.7	—12.4	77	sse.	4	2	.....	.....	10	.....	.....	0.098	2.5	.....	Capt. Sseliwerstow.
Ashurada	30.40	772.1	30.30	769.7	50.2	10.1	84	wnw.	2	1	.....	.....	9 ks	.....	.....	0	0	.....	
Astrakhan	30.55	776.0	30.47	773.9	22.0	— 5.2	50	sse.	7	3	.....	0	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.40	772.1	30.35	770.9	32.7	0.4	94	n.	13	6	.....	.....	10 kn	.....	.....	0.012	0.3	.....	
Barnaul	29.97	761.2	30.54	775.6	0.5	—17.5	76	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Bielosersk	29.09	754.0	30.23	767.8	—15.2	—26.2	86	ese.	4	2	.....	0	0	.....	.....	0	0	.....	
Dorpat	29.82	757.3	30.08	763.9	20.3	— 0.5	100	ene.	2	1	.....	.....	10 n	.....	.....	0.157	4.0	.....	Observatory.
Ekaterinburg	29.28	743.6	30.33	770.3	14.7	— 9.6	84	calm	0	0	.....	.....	10	.....	.....	0.071	1.8	.....	Meteorological Obs'y.
Elissawetgrad	29.48	748.8	29.97	761.1	19.2	— 7.1	93	wsw.	18	8	.....	.....	10 n	.....	.....	0	0	.....	
Irkutsk	28.78	730.9	30.60	777.2	7.3	—13.7	84	nw.	.....	.....	1	.....	1	.....	.....	0	0	.....	
Kasan	30.09	764.3	30.40	772.2	—11.0	—23.9	78	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Observatory.
Kem	29.80	756.9	29.85	758.2	11.5	—11.4	93	calm	0	0	.....	0	2 ks	.....	.....	0	0	.....	
Kertch	30.21	767.3	30.23	767.8	29.5	— 1.4	72	calm	0	0	.....	0	3 s	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.23	742.4	29.91	759.8	13.8	—10.1	94	nw.	18	8	.....	cs;cs	10 ks	.....	.....	0.043	1.1	.....	Observatory.
Koslov	29.22	742.3	29.80	757.0	4.8	—15.1	89	se.	20	9	.....	.....	10 s	.....	.....	0.050	1.5	.....	
Libau	30.15	765.8	30.17	766.4	32.5	0.3	95	nw.	9	4	.....	.....	10	.....	.....	0	0	.....	E. Quass.
Lugan	29.73	755.1	29.93	760.2	18.0	— 7.8	66	ssw.	34	15	.....	.....	10	.....	.....	0.008	0.2	light clouds	Meteorological Obs'y.
Moscow	29.48	748 7	30.04	763 0	—14.8	—26.0	79	ne.	4.5	2.0	.....	0	0	.....	.....	blank	blank	.....	
Nikolaiev	30.00	763.0	30.14	765.5	23.0	— 5.0	79	sw.	45	20	.....	8 cs	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.07	753.6	29.76	755.8	—10.8	—23.8	77	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Iwanow.
Pekin, China	29.14	765.5	30.28	769.1	25.7	— 3.5	40	calm	0	0	.....	2 cs	0	.....	.....	0	0	.....	Physical Observatory.
Petrozavodsk	29.84	757.9	30.06	763.5	2.1	—16.6	85	ssw.	9	4	.....	.....	10	.....	.....	0.118	3.0	light clouds	Dr. Bergmann.
Pinsk	29.52	749.9	30.05	763.3	25.2	— 3.8	89	nw.	13	6	.....	.....	10	.....	.....	0.008	0.2	snowing	
Poti	30.28	769.1	30.30	769.6	36.5	2.5	85	e.	4	2	.....	0	2 k	.....	.....	0.358	0.1	.....	
St. Petersburg	30.00	763.4	30.07	763.8	9.3	—12.6	96	ese.	2	1	.....	.....	10 n	.....	.....	0.004	0.1	.....	Central Physical Obs'y.
Samarkand	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Sevastopol	30.00	762.1	30.17	766.3	28.8	— 1.8	52	w.	40	18	.....	.....	10 n	.....	.....	0.122	3.1	.....	
Semipalatinsk	29.85	758.2	30.59	776.9	0.7	—17.4	89	e.	9	4	.....	.....	1	.....	.....	0	0	.....	Major Lasarew.
Staroi Bykhov	29.52	749.9	30.04	762 9	2.3	—16.5	65	nne.	9	4	.....	.....	10 k	.....	.....	0.043	1.1	.....	
Tiflis	28.87	733.2	30.35	770.9	37.0	3.1	38	n.	9	4	.....	0	0	.....	.....	inap.	inap.	.....	Physical Observatory.
Tomsk	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Viatka	29.70	754 3	30.43	773.0	—15.9	—26.6	.....	se.	2	1	.....	.....	1	.....	.....	0	0	.....	
Warsaw	29.80	756.9	30.25	768.3	20.2	— 3.2	82	nw.	13	6	.....	.....	0	.....	.....	0	0	heavy cl'ds	Astronomical Obs'y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Wilna	29.65	753.1	30.10	764.5	21.6	— 5.8	95	nw.	4	2			10			0	0	heavy clouds	Berg, Assistant.
Yeniseisk	29.97	761.2	30.29	769.4	— 4.9	—20.5	87	calm	0	0			0			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt.			30.19	766.8	44	6.7	92	s.			4	5	5	s.		0	0	d. clouds	J. Youngclause.
North Unst			30.41	772.4				sw.			3		10					hazy	Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.83	757.7	29.94	760.4	47.7	8.7	77	n.	0.2	0.1			10			0.181	4.6	foggy	Antonio Rzve, Director.
Bilbao, Met. Obs'y	29.77	756.1	29.83	757.6	46.4	8.0	67	se.	6.0	2.7			10			0	0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.84	681.7	29.89	759.2	38.7	3.7	87	n.	2.0	0.9			10			0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.60	701.1	29.90	759.5	39.6	4.2	97	ne.	4.9	2.2			10			0.063	1.6	rainy	The Staff.
Murcia, Met. Obs'y	29.82	757.3	29.96	760.9	55.0	12.8	84	ese.	2.0	1.0		3	6	e.		0.020	0.5	raining	Olayo Diaz, Director.
Oviedo	28.87	733.2	29.74	755.3	42.8	6.0	86	se.	12.5	5.6		4 n	6 n			0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.60	726.5	29.49	749.1	50.9	10.5	86	se.	15.0	6.7			10			0.433	11.0	covered	R. Gil Villanueva, Dir.
SPANISH.—(*Sub-series.*)																			
Manilla, Philippine Islands	30.01	762.2	30.06	763.6	78.0	25.6	81	ne.	4.9	2.2		0	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.75	755 7	29.85	758.2	59.7	15.4	55	s.	16.2	7.2			10		s.	0.311	7.9		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.05	763.3	30.14	765.6	75.9	24.4	90	calm	0	0		3 cs	2 k	se.	se.	0.402	10.2		Manuel Maese.
SWEDISH.																			
Haparanda	29.93	760.2	29.97	761.2	2.8	—16.2	100	calm			0		2			0	0		
Umea	30.03	762.8	30.08	764.1	33.8	1.0	81	nw.			2		9			0	0		
Hernosand	30.15	765.9	30.21	767.2	37.4	3.0	87	calm			0		3			0	0		
Stockholm	30.04	763.0	30.22	767.5	32.4	0.2	96	nw.			2		6			0.012	0.3		
Wisby	30.15	765.9	30.21	767.4	35.2	1.8	96	n.			2		10			0	0		
Sub-series.																			
Upsala	30.12	765.0	30.21	767.2	30.4	— 0.9	100	nw.	6.3	2.8			3	nw.		0.031	0.8		S. G. Fineman.
SWISS.																			
Geneva	28 52	724.4	30.02	762.5	30.2	— 1.0	82	n.			4		10			0	0	covered	The Observatory.
TURKISH.																			
Constantinople			30.30	769.6	34.2	1.2	79	ese.	7	3.0			0			0	0		The Observatory.
Valona			30.01	762.3	54.0	12.2		se.			1		10			0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.09	763.4	59.9	15.5	74	sw.			1		10 n		sw.	0.22	5.6		Prof. C. V. A. van Dyck.
Samokov, Bulgaria	27.82	706.6			29	— 1.7	70	ne.			1	0	2 c		ne.	0	0	clear	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.09	764.3	30.18	766.6	20	— 6.7	64	n.	5	2.2		0	7 s		nw.	0	0	fair	J. O. Barnes.
Alpena, Michigan	29.45	748.0	30.16	766.1	11	—11.7	80	w.	6	2.7			10 s			0.02	0.5	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.15	638.8	30.27	768.8	19	— 7.2	73	ne.	15	6.7		0	0			0	0	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	27 20	690.9	30.24	768.1	20	— 3.3	67	sw.	28	12.5			10 s		sw.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.81	731.8	30.04	763.0	48.5	9.2	96	se.	4	1.8			fg.			0	0	dense fog	H. C. Smith.
Atlantic City, New Jersey	30.11	764.8	30.12	765.0	29	— 1.7	77	ne.	5	2.2		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.83	757.7	30.03	762.7	54	12.2	93	calm	0	0			10 k		sw.	0.01	0.3	cloudy	John Henly.
Baltimore, Maryland	30.12	765.0	30.16	766.1	35	1.7	69	se.	1	0.4			10s,fg		w.	0	0	cloudy	Geo W Felger.
Barnegat, New Jersey	30.10	764.5	30.12	765.0	29.0	— 1.7	88	ne.	13	5.8		0	0			0	0	clear	G. A. Hill.
Behring Id., Behring Sea	29.34	745.2	29.36	745.7	10.3	—12.1		ne.	3	1.3		0	2 s			0.02	0.5	clear	Leonard Steineger.
Bennett, Fort, Dakota	28.87	733 3	30.01	777.5	— 8	—22.2	78	sw.	1	0.4		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.31	693.7	30.29	769.4	30	— 1.1	70	sw.	22	9.8			10 s		sw.	0	0	cloudy	S. Wheaton.
Billings, Montana	27.00	685.8			17	— 8.3		sw.	16	7.2			10 s			0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.53	724.6	30.52	775.2	—15	—25.1	100	calm	0	0		0	0			inap.	inap.	clear	Cyrus Cramer.
Block Island, Rhode Island	30.13	765.3	30.16	766.1	27	— 2.8	77	n.	12	5.4		1 c	0	n.		0.10	2.5	clear	J. T. Elker.
Boise City, Idaho	27.73	704.3	30.66	778.7	20	— 6.7	91	n.	2	0.9		0	6 s			0	0	fair	B. E. Light.
Boston, Massachusetts	30.01	762.2	30.18	766.6	23.0	— 5.0	73	nw.	6	2.7		6 cs	fg.	nw.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.90	759.4	29.95	760.7	56.0	13.3	100	calm	0	0			fg.			0	0	dense fog	M. McCarty.
Buffalo, New York	29.31	744.5	30.11	764.8	20.4	— 6.4	81	ne.	4	1.8			10 n		sw.	inap.	inap.	light snow	W. Finn.
Buford, Fort, Dakota	28.28	718.3	30.48	774.2	—11	—23.9	54	s.	4	1.8		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.88	758.9	30.19	766.8	12.0	—11.1	80	e.	1	0.4			10 s		w.	0.01	0.3	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.74	755.4	30.16	766.1	27.0	— 2.8	94	n.	20	8.9			10 n		n.	0.02	0.5	light snow	W. H. Ray.
Cape Henry, Virginia	30.05	763.3	30.07	763.8	39	3.9	89	n.	14	6.3			10 s			0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.09	764.3	30.12	765.0	39.0	3.9	46	n.	8	3.6		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California																			J. J. McLean.
Cedar Keys, Florida	29.98	761.5	30.00	762.0	63	17.2	90	s.	12	5.4			10 s		s.	1.18	30.0	cloudy	F. W. Mixer.
Champaign, Illinois	29.33	745.0	30.20	767.1	11.4	—11.4	68	nw.	27	12.1			10 s		nw.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.91	759.7	29.97	761.2	60	15.6	93	sw.	8	3.6			fg.			0.15	3.8	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.12	739.0	30.02	762 5	45.0	7.2	100	e.	2	0.9			fg.			0	0	dense fog	D. O'Donoghue.
Chattanooga, Tennessee	29.17	740.9	30.03	762.7	48.5	9.2	82	w.	4	1.8			10 ks		w.	0	0	threatening	B. L. Goulding.
Cheyenne, Wyoming	24.20	614 7	30.45	773.4	10.9	—11.7	66	nw.	8	3.6		0	0			0.03	0.8	clear	E. McGovern.
Chincoteague, Virginia	30.08	764.0	30.22	767.0	10.5	—11.9	89	nw.	12	5.4			10 n			0.08	2.0	light snow	J. Mitchell.
Cincinnati, Ohio	29.37	746.0	30.10	764.5	30	— 1.1	88	ne.	13	5.8			fg.			0	0	dense fog	C. F. Dickens.
Cleveland, Ohio	29.37	746.0	30.06	763.5	31	— 0.6	88	n.	6	2.7			10 n			0.01	0.3	sleeting	R. B. Watkins.
Coleman City, Texas	29.32	744.7	30.10	764 5	23.6	— 4.7	93	e.	4	1 8			10s;fg			inap.	inap.	cloudy	J. B Newlin.
Columbus, Ohio	28.46	722.9	30.34	770.6	20	— 6.7	73	n.	32	14.3			10 s		n.	0	0	cloudy	L. Dorman.
Concho, Fort, Texas	29.14	740.1	30.04	763.0	28	— 2.2	64	n.	9	4.0			10 s		n.	0	0	cloudy	D. Cuthbertson.
Davenport, Iowa	28.42	721.9	30.44	773.2	22.0	— 5.6	61	n.	20	8.9			10 s			0	0	cloudy	J. McGlone.
Davis, Fort, Texas	29.66	753.4	30.37	771.4	3	—10.1	72	n.	9	4.0		0	1 s		nw.	0.18	4.6	clear	W. B. Lamar.
Dayton, Washington T'y	25.44	646.2	30.42	772.7	20	— 6.7	87	n.	16	7.2			10 n		n.	inap	inap.	light snow	J. Williams.
Deadwood, Dakota	28.66	728.0	30.46	773.7	30	— 1.1	80	ne.	2	0.9			10 s			0	0	cloudy	D. Moore.
Delaware Breakwater, Del	25.46	646.7	30.40	772.1	18	— 7.8	73	ne.	4	1.8		0	0			0.03	0.8	clear	F. Wilson.
Denison, Texas	30.12	765.0	30.14	765.5	32	0.0	88	n.	15	6.7			10 s		n.	inap	inap.	cloudy	T. S. Townsend.
Denver, Colorado	29.47	748.5	30.31	769.9	18.0	— 7.8	83	n.	12	5.4			10 s			0.03	0.8	cloudy	J. W. Byram.
Des Moines, Iowa	24.99	634.7	30.51	774.9	17.0	— 8.3	73	s.	6	2.7		0	0			0.03	0.8	clear	F. M. Neal.
Detroit, Michigan	29.50	749.3	30.47	773.9	— 1	—18.3	68	n.	6	2.7			10 s		n.	0.38	9.7	cloudy	F. W. Conrad.
Dodge City, Kansas	29.40	746.7	30.16	766.1	19.0	— 7.2	84	nw.	10	4.5			10 n			0.05	1.3	light snow	C. F. R. Wappenhans.
Dubuque, Iowa	27.75	704.8	30.50	774.7	7.5	—13.6	58	nw.	6	2.7		0	0			inap.	inap.	clear	V. P. Temple.
Duluth, Minnesota	29.61	752.1	30.38	771.6	— 1	—18.3	39	nw.	1	0.4		0	2 s		n.	0	0	clear	J. Harvey Smith.
Eagle Pass, Texas	29.49	749.0	30.33	770.4	—16	—26.7	100	sw.	6	2.7		0	0			0	0	clear	N. B. Conger.
Eagle Rock, Idaho	25.71	653.0	30.67	779.0	12	—11.1	83	n.	20	8.9			10 n			inap.	inap.	light rain	F. Belford.
Eastport, Maine	30.03	762.7	30.10	764.5	16.0	— 8.9	74	w.	10	4.5		0	0			0	0	clear	J. M. Clifford.
Elliott, Fort, Texas	27.64	702.0	30.57	776.5	11	—11.7	24	nw.	10	4.5		4 cs	0	w		0.18	4.6	fair	D. C. Murphy.
El Paso, Texas	26.58	675.1	30.46	773.7	30.5	— 0.8	60	ne.	20	8.9		0	0			0	0	clear	W. J. Gundall.
Erie, Pennsylvania	29.35	745.5	30.12	765.0	25	— 3.9	88	calm	16	7.2		0	0			0	0	clear	J. O'Dowd.
Escanaba, Michigan	29.54	750.3	30.26	768.6	— 2.0	—18.9	68	w.	0	0			0			0	0	clear	
Fredericksburg, Texas	28.42	721.9	30.24	768.1	26	— 3.3	88	n.	8	3.6		0	0			0.02	0.5	cloudy	Peter Wood.
Galveston, Texas	29.98	761.5	30.03	762.7	53	11.7	100	n.	25	11.2			10 s			0	0	clear	George Heathcote.
Grand Haven, Michigan	29.51	749.5	30.22	767.6	17.0	— 8.3	83	ne.	20	8.9			10 s			0	0	cloudy	Frank Halwegler.
Grant, Fort, Arizona	25.51	647.9	30.41	772.4	31	— 0.6	65	nw.	3	1.3			10 s		n.	0	0	cloudy	E. O'C. MacInerney.
Hatteras, North Carolina	29.99	761.7	30.01	762.2	46	7.8	93	n.	12	5.4		9 k	0	ne.		0.01	0.3	cloudy	J. E. Mueller.
Helena, Montana	26.03	661.2	30.46	773.7	25	— 3.9	76	calm	12	5.4		0	0			0	0	clear	Robert C. Lord.
Henrietta, Texas	29.39	746.5	30.46	773 7	14	—10.0	80	n.	0	0			10 s		calm	0.09	2.3	cloudy	R. M. Crawford.
Huron, Dakota	29.09	738.1	30.60	777 2	— 3.8	—19.9	62	nw.	24	10.7		0	0			0	0	cloudy	N. C. Smith.
Indianapolis, Indiana	29.26	743.2	30.10	764.5	25	— 3.9	73	ne.	6	2.7		0	0			0	0	clear	J. P. Sherry.
Indianola, Texas	29.99	761.7	30.02	762.5	53.0	11.7	93	n.	6	2.7			10s;fg			0	0	clear	S. W. Glenn.
Jacksboro, Texas	29.18	741.2	30.42	772.7	15	— 9.4	67	n.	20	8.9			10 s		ne.	0	0	cloudy	J. F. Jirdinston.
Jacksonville, Florida	29.99	761.0	30.01	762 2	64	17.8	93	s.	12	5.4		0	0		n.	0	0	cloudy	I. A. Reed.
Keogh, Fort, Montana	27.78	705.6	30.46	773.7	—12	—24.4	54	s.	2	0.9			10 s			0	0	clear	D. J. Carr.
Keokuk, Iowa	29.04	752.8	30.34	770.6	3.5	—15.8	72	w.	1	0.4		5 cs	0	nw.		1.35	34.3	cloudy	J. W. Smith.
								nw.	9	4.0		0	0			0.05	1.3	clear	A. Schneider.
																			F. Z. Gosewisch.

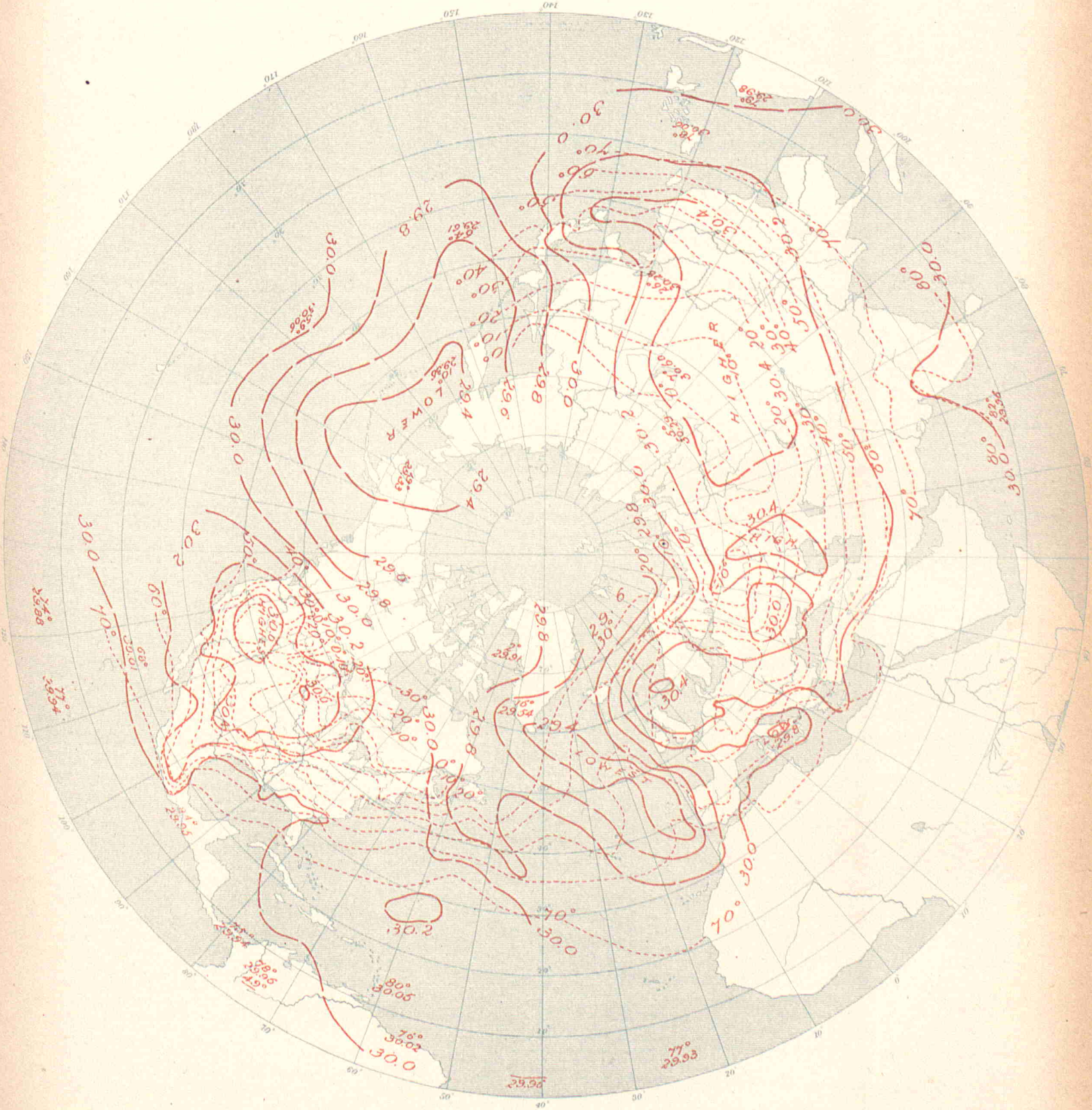
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.00	762.0	30.02	762.5	74.0	23.3	90	s.	7	3.1			10 s		s.	0	0	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.03	762.7	30.05	763.3	42.5	5.8	100	ne.	12	5.4		10 cs	fg.		sw.	0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	28.95	735.3	29.03	762.7	35	1.7	100	se.	4	1.8			fg.			inap.	inap.	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.57	751.1	30.41	772.4	—10	—23.3	100	n.	2	0.9		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.55	750.0	30.51	774.9	4	—15.6	72	nw.	6	2.7			10 s		nw.	0.02	0.5	cloudy	A. W. Browns.
Lewiston, Idaho	29.72	754.9	30.59	777.0	25.5	— 3.6	88	s.	2	0.9			10 s			0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.77	756.1	30.10	764.5	35	1.7	89	nw.	24	10.7			10 n			inap.	inap.	light rain	W. U. Simons.
Los Angeles, California	29.96	761.0	30.36	771.1	57	13.9	25	n.	8	3.6		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.42	747.3	30.01	762.2	32	0.0	94	n.	10	4.5			10 s			0.03	0.8	cloudy	L. M Dey.
Lynchburg, Virginia	29.38	746.2	30.10	764.5	35.2	1.8	78	ne.	6	2.7			10 s			0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.49	749.0	30.19	766.8	15.0	— 9.4	67	nw.	16	7.2			10 s		nw.	inap.	inap.	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.02	762 5	30.03	762.7	48.0	8.9	93	ne.	6	2.7			10 s		ne.	0.02	0.5	cloudy	William Daly.
Madison, Wisconsin	29.24	742.7	30.33	770.4	— 4	—20.0	65	n.	8	3.6			10 s			0	0	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.65	651.5	30.20	767.1	20	— 6.7	58	nw.	12	5.4		0	0			0	0	clear	F. Burke.
McKavett, Fort, Texas	28.15	715.0	30.54	775.7	21	— 6.1	87	n.	20	8.9		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.43	747.5	30.21	767.3	4	—15.6	72	w.	6	2.7		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.07	753.6	30.03	762.7	43	6.1	100	calm	0	0			10 n			inap.	inap.	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.48	748.8	30.28	769.1	3	—16.1	72	nw.	10	4.5		0	5 s			0	0	fair	W. Linn.
Missoula, Fort, Montana	27.08	687.8	30.54	775.7	18	— 7.8	70	nw.	5	2.2		0	5 s			0	0	fair	I. H. Young.
Mobile, Alabama	29.96	761.0	30.00	762.0	54.8	12.7	92	w.	2	0.9		1 c	1 ks			0	0	clear	C. A. Read.
Montgomery, Alabama	29.76	755.9	30.00	762.0	52.6	11.4	98	calm	0	0			fg.			inap.	inap.	dense fog	J. B. McLaughlin
Moorhead, Minnesota	29.40	746.7	30.51	774.9	—17	—27.2	100	w.	6	2.7		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.94	735.1	30.00	762.0	31.5	— 0.3	87	ne.	2	0.9		0	8 s		sw.	0	0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H	23.41	594.6	30.04	763.0	— 5.0	—20 6	68	nw.	82	36.6		5 cs	0			0.11	2.8	fair	S. W. Beall.
Nashville, Tennessee	29.40	746.7	30.00	762.0	42.0	5.6	92	se.	6	2.7			10 ks		w.	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.02	762.5	30.14	765.5	20	— 6.7	70	n.	7	3.1		2 cs	sk.			0	0	clear	J. H. Sherman.
New London, Connecticut	30.12	765 0	30.18	766.6	24	— 4.4	61	calm	0	0		2 c	0		sw.	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.94	760 5	30.00	762.0	57.5	14.2	76	e.	1	0.4		1 c	0			0	0	clear	L. Dunne.
Newport, Rhode Island	30.10	764 5	30.15	765.8	23.8	— 4.6	77	n.	4	1.8		4 c	1 s		w.	0	0	fair	W. McGillivray.
New York, New York	29.98	761.5	30.17	766.3	29	— 1.7	77	calm	0	0		0	fg.			0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.04	763.0	30.07	763.8	40	4.4	89	ne.	7	3.1			10s;fg			0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.42	696.5	30.54	775.7	0.6	—17.4	81	w.	6	2.7		0	0			0.08	2.0	clear	E. F. Brady.
Olympia, Washington T'y	30.36	771.1	30.40	772.1	37.0	2.8	82	sw.	8	3.6			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	29.20	743 2	30.54	775.7	2.0	—16.7	69	nw.	5	2.2		0	0			0.21	5.3	clear	A. Pollak.
Ooglaamie, Alaska	29.30	745 7	29.38	746.2	—18.0	—27.8	94	wnw.	11	4.9		hz.	7 s			inap.	inap.	fair	P. H. Ray.
Oswego, New York	29.77	756.1	30.12	765 0	23.0	— 5.0	73	s.	6	2.7			10 s			0.01	0.3	cloudy	J. G. Linsley.
Palestine, Texas	29.05	753.1	30.23	767.8	29.0	— 1.7	77	nw.	26	11.6		10 cs	0			0	0	cloudy	L. M. Pindell.
Pensacola, Florida	29.97	761.2	30.00	762.0	55.0	12.8	96	n.	5	2.2		0	4 s		nw.	0	0	fair	M. McGauran.
Philadelphia, Pa	30.06	763.5	30.17	766.3	30.5	— 0.8	68	n.	8	3.6		0	0			0	0	clear	T. T. Townsend.
Pike's Peak, Colorado	17.57	446.3	30.27	768.8	—17	—27.2	100	ne.	16	7.2		0	0			0.05	1.3	clear	H. Hall.
Ploche, Nevada	24.41	620.0	30.61	777.5	18	— 7.8	73	nw.	2	0.9		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.16	740.7	30.01	762.2	29.4	— 1.4	77	ne.	5	2.2			10 s		ne.	0	0	cloudy	W. A. Reid.
Poplar River, Montana	27.94	709.7	30.30	769.6				nw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.00	762.0	30.01	762.2	55.2	12.9	96	n	6	2.7		0	7 s		n.	0.01	0.3	fair	H. B. Boyer.
Port Huron, Michigan	29.43	747.5	30.16	766.1	15.6	— 9.4	87	nw.	7	3.1			10 s			0.00	1.5	cloudy	W. O. Bailey.
Portland, Maine	30.11	764.8	30.16	766.1	19.5	— 6.9	62	w.	5	2.2		hz.	0			0.01	0.3	dense haze	W. W. Elchelberger.
Portland, Oregon	30.45	773.4	30.52	775.2	32.2	0.1	100	se.	4	1.8			fg.			0	0	dense fog	M. L. Hearne.
Portsmouth, N. C.					46	7.8	93	ne.			2		10 s		se.	0.11	2.8	cloudy	F. S Coburn.
Prescott, Arizona	25.03	635.8	30.41	772.4	23.2	— 4.9	76	e.	1	0.4		0	0			0	0	clear	W. H. Clendenon.
Provincetown, Mass	30.12	765.0	30.15	765.8	28	— 2.2	77	n.	10	4.5		2 c	2 s		w.	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.01	762.2	30.02	762.5	70	21.1	92	se.	6	2.7		0 cs	4 ks		sw.	inap.	inap.	cloudy	W. J. Evans.
Red Bluff, California	30.15	765.8	30.52	775.2	40	4.4	65	n.	3	1.3		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.38	740.2	30.09	764.3	19	— 7.2	84	sw.	3	1.3			10s;sk			0.01	0.3	cloudy	E. W. McGann
Roseburg, Oregon	30.00	762.0	30.58	776.7	28	— 2.2	88	w.	1	0.4		0	fg.			0	0	light fog	J. J. Nanry.
Sacramento, California	30.44	773.2	30.52	775.2	39.8	4.3	89	calm	0	0			8 s		nw.	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.05	753.1	30.29	769.4	13.9	—10.1	87	nw	15	6.7			10 n		nw.	inap.	inap.	light snow	J. H. Weber.
St. Michael, Fort, Alaska	29.29	744.0	29.33	745.0	19	— 7.2	100	se.	17	7.6			10 s			inap.	inap.	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.51	749.5	30.40	773.7	—17.0	—27.2	100	sw.	2	0.9		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.45	748.0	30.43	772.9	—25	—31.7	100	sw.	4	1.8		0	0			0	0	clear	C. B Dilley.
Salt Lake City, Utah	26.15	664.2	30.72	780.3	20	— 6 7	58	calm	0	0		0	0			0.03	0.8	clear	J. Craig.
San Antonio, Texas	29.44	747.8	30.17	766.3	34.5	1.4	79	nw.	21	9.4			10 s		nw.	0	0	cloudy	T. J. Kenan.
San Diego, California	30.22	767.6	30.29	769.4	47.5	8.6	51	n	2	0.9		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.38	746.2	30.10	764.5	25	— 3.9	88	e.	15	6.7			10 n			0.01	0.3	light snow	M. H. Perry.
Sandy Hook, New Jersey	30.14	765.5	30.16	766.1	30.0	— 1.1	78	ne.	11	4.9		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	30.40	772.1	30.47	773.9	45	7.2	83	nw.	7	3.1		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.38	593.8	30.43	772.9	18	— 7.8	61	ne.	1	0.4		0	0			0.02	0.5	clear	H. U. Jones.
Savannah, Georgia	29.89	759.2	29.99	761.7	62	16.7	87	s.	6	2.7			10 n		s.	0.02	15.7	light rain	H. W. Ford.
Shaw, Fort, Montana	26.40	672.1	30.32	770.1	32	0.0	62	sw.	28	12.5			10 s			c	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.80	756.9	30.05	763.3	41	5.0	92	nw.	12	5.4			10 s		nw.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	29.14	740.1	30.47	773.9	13.5	—10.3	72	n.	32	14.3		0	0			0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.43	620.5	30.29	769.4	28.0	— 2.2	70	nw.	13	5.8		0	0			0	0	clear	N. D. Lane.
Sitka, Alaska	29.42	747.3	29.50	749 3	37.4	2.8	82	e.	8	3.6			8 ks		e.	1.12	28.4	cloudy	F. W. Fickett.
Smith, Fort, Arkansas																			J. B. Campbell.
Smithville, North Carolina	29.90	761.0	30.00	762.0	50	10.0	100	ne.	8	3.6			10 n		ne.	0.52	13.2	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.38	720.8	30.52	775.2	27.8	— 2.3	89	calm	0	0			10 s			0	0	cloudy	H. Clifford.
Springfield, Illinois	29.56	750.8	30.29	769.4	12	—11.1	80	n.	18	8.0			10 n			0.05	1.3	light snow	T. B. Jennings.
Springfield, Missouri	28.82	732.0	30.34	770.6	8	—13.3	76	n.	10	7.2		0	0 ks		n.	0.02	0.5	fair	J. H. Bryce.
Starkville, Miss	29.51	749.5	30.01	762.2	49	9.4	80	s.	4	1.8			10 s		s.	0.01	0.3	cloudy	C. Dill.
Stevenson, Fort, Dakota	28.46	722.9	30.52	775 2	—21	—29.4	100	calm	0	0		0	0			inap.	inap.	clear	W. Burrows.
Stockton, Fort, Texas	27.34	694.4	30.48	774.2	25	— 3.9	88	nw.	20	8.9		0	8 s		nw.	0	0	cloudy	A. J. Warren.
Thatcher's Island, Mass	30.12	765.0	30.18	766.6	26.0	— 3.3	77	nw.	10	7.2		5 k	0		W.	0	0	fair	G. Liebmann.
Thomas, Camp, Arizona	27.59	700.8	30.42	772.7	34.5	1.4	90	se.			1	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.39	746.5	30.13	765.3	21	— 6.1	70	n.	0	2.7			10 s			0.10	2.5	cloudy	A. Buell.
Tucson, Arizona	27.88	708.1	30.38	771.6	33	0.6	88	s.	0	2.7		0	0			0	0	clear	J. L. Whiteside
Umatilla, Oregon	30.19	766.8	30.58	776.7	25	— 3.9	88	e.	0	2 7			10 s			0	0	cloudy	J. Daly.
Verde, Fort, Arizona					33.8	1.0	55	n.			2	0	0			0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.74	755.4	30.02	762.5	51.0	10.6	82	sw.	4	1.8			10 k		sw.	inap.	inap.	cloudy	James Kenealy.
Visalia, California	30.13	765.3	30.52	775.2	39.2	— 1.0	92	calm	0	0		0	0			0	0	clear	O. D. Stewart
Washakie, Fort, Wyoming	24.70	627.4	30.49	774.4	7.5	—13.6	68	sw.	5	2.2		0	2 s			0.13	3.3	clear	T. M. Ambler.
Washington, D. C	30.04	763.0	30.10	766.1	29.8	— 1.2	84	calm	0	0			10 s		ne.	0.21	5.3	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.38	670.0	30.52	775.2	6.5	—14.2	74	w.	12	5.4		0	0			inap.	inap.	clear	F. H. Brandenburg.
Williamsport, Pa	29.31	744.5	30.14	765.5	24.2	— 4.3	88	calm	0	0			10 ks		nw.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.94	760.5	30.00	762.0	51	10.6	93	e.	7	3.1			10 n			0.72	18.3	light rain	Samuel A. Haney.
Winnemucca, Nevada	26.15	664.2	30.69	779.5	10	— 8.9	70	ne.	12	5.4		0	0			0	0	clear	J. Grover.
Yankton, Dakota	29.10	739.1	30.52	775.2	4	—15.6	72	n.	4	1.8			10 n			0.75	19.0	light snow	J. H. Atfield.
Yuma, Arizona	30.27	768.8	30.42	772.7	51.1	10.6	40	n.	7	3.1		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			49.0	9.4	64	s.	1	0.4		0	1ks;s		ne.	0	0	clear	Joaquin Gomez.
Kingston, Jamaica, W. I	30.05	763.3	30.09	763 5	73	22.8	81	calm	0	0		0 cs	4 s	s.	e.	0	0	cloudy	Robert Johnston.
Paramaribo, S. A	30.02	762.5	30.02	762.5	76	24.4	91	se.			2		8 ks	e.		0.250	6.3	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.40	746.7	29.90	760.0	78	25.6	84	calm			0	3 ck	7 ks	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A																			Earl Flint.
St. Paul, Kodiak Id., Alaska																0	0		W. J. Fisher.
St. Thomas, W. I																			Aug. Walloe.
York Factory, B. A	30.05	763.3	30.12	765 0	—33.0	—36.1		nw.	13	5.8		0	0			0	0	clear	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																	
H. M. S. Amethyst, Bahai Blanca, La Plata†	30.12	765.0	71.2	21.8	94	ese.			1	9							misty.
H. M. S. Audacious, N. 13° 00′, E. 119° 30′	29.91	759.7	81	27.2	91	nne.			4	4	ne.				4	nne.	d. clouds.
H. M. S. Boadicea, Saldanna Bay, Cape Colony	29.94	760.5				sw.			1-2	3							d. clouds.
H. M. S. Carysfort, N. 31° 23′, E. 32° 14′	30.14	765.5	57	13.9	87	wnw.			3-5	8	w.				2	nw.	squally.
H. M. S. Champion, Singapore, Malay peninsula	30.02	702.5	80	26.7	86	ne.			2	8					1	ne.	d. clouds.
H. M. S. Cleopatra, N. 31° 15′ E. 121° 29′	30.47	773.9	33	0.6	89	calm			0	0							blue sky.
H. M. S. Cornus, N. 27° 22′, W. 118° 15′	30.19	766.8	58	14.4	93	ne.			3	2							blue sky.
H. M. S. Candor, N. 34° 55′, E. 19° 30′	30.16	766.1	61	16.1	85	sse.			5-7	6	s.				3	ne.	blue sky.
H. M. S. Constance, N. 14° 08′ W. 25° 39′	30.00	762.0	73	22.8		nne.			3	0					5	sse.	showery.
H. M. S. Curacoa, Yokohama, Japan	29.79	756.7	51.5	10.8	48	nw.			2-3	7	nw.				2	nne.	blue sky.
H. M. S. Crocodile, N. 36° 53′, W. 8° 40′	29.04	752.8	59	15.0	81	s.			7	10							d. clouds.
H. M. S. Diamond, S. 39° 39′, E. 149° 38′	29.96	761.0	63	17.2	71	sse.			4-6	4	e.				4	ssw.	raining.
H. M. Dock Yard, Bermuda, W. I.	30.09	764.3	68	20.0	94	wsw.			1-2	9	wsw.				3	ne.	squally.
H. M. S. Flying Fish, Nagasaki, Japan	30.39	771.9	40	4.4	91	ne.			0-1	8							raining.
H. M. S. Fox Hound, Labuan Island, Borneo	29.88	758.9	78.5	25.8		calm			0	9							d. clouds.
H. M. S. Gannet, S. 37° 06′, W. 73° 11′	29.90	759.4	56	13.3	80	sw.			2	6							showery.
H. M. S. Heroine, N. 3° 23′ W. 24° 58′	29.93	760.2	77	25.0	86	ene.			1-2	6							blue sky.
H. M. S. Himalaya, N. 36° 14′, W. 3° 10′	29.92	760.0	58.5	14.7	84	ene.			1-2	7					2	ese.	showery.
H. M. S. Iris, N. 40° 40′, E. 17° 59′	29.89	759.2	54	12.2	86	se.			6-7	7							d. clouds.
H. M. S. Iron Duke, N. 10° 23′, E. 67° 58′	29.96	761.0	82	27.8	82	n.			3-4	6	nne.				3	ese.	d. clouds.
H. M. S. Lark, S. 35° 10′, E. 165° 33′	30.06	763.5	65.3	18.5	87	ene.			4	10					3	nne.	d. clouds.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.25	768 3	40.7	4.8	55	wnw.			2-5	0					3	e.	overcast.
H. M. S. Monarch, Port Said, Egypt	30.10	764.5	64	17.8	67	wsw.			3	5							misty.
H. M. S. Mutine, S. 3° 23′, W. 110° 42′	30.00	762.0	73.5	23.1		calm			0	0							d. clouds.
H. M. S. Rocket, Lota Bay, Chili.	29.95	760.7	67	19.4	74	calm			0	2					1	ese.	blue sky.
H. M. S. Serapis, N. 17° 25′, E. 66° 15′	30.06	763.5	76	24.4	70	ne.			1	4							blue sky.
H. M. S. Superb N. 36° 45′, E. 35° 45 *	30.13	765.3	65	18.3	57	ene.			1						1	e.	d. clouds.
H. M. S. Swiftsure, Callao, Peru	29.99	761.7	66	18.9	94	s.			1	10					4	s.	d. clouds.
H. M. S. Sylvia, Cape Providence, Patagonia	29.13	739.9	45.7	7.6	92	calm			0	8							showery.
H. M. S. Tourmaline, Bombay, India	30.02	762.5				w.			2	3	n.						d. clouds.
H. M. S. Zephyr, N. 37° 33′, E. 121° 25′	30.21	767.3	33	0.6	89	calm			0	0					sm'l		misty.
Portuguese Naval.																	
Tamega, Macao, China	30.30	769.6	61.7	16.5	74	e.			1	0			0	0			blue sky.
Swedish Naval																	
Vanadis, N. 36° 29′, E. 20° 16′	30.05	763.2	55.9	13.3	88	se.			4	10							squally.
United States Naval.																	
Navy Yard, Pensacola, Fla*	29.97	761.2	57	13.9	94	nw.	11	4.9		8		nw.	0	0			fair.
Navy Yard, Portsmouth, N. H*	30.16	766.1	19	— 7.2	?	nw.	9	4.0		5		nw.	0	0			fair.
Naval Hospital, Yokohama, Japan*	29.79	756.7	42.5	5.8	45	calm			0	0			0	0			clear.
Adams, Sitka, Alaska†	29.41	747.0	35	1.7	90	ene.			1	10							cloudy.
Alaska, Mare Island, Cal	30.40	772.1	43	6.1	91	calm			0	0			0	0			clear.
Alliance, N. 18° 30′ W. 75° 15′	30.07	763.8	79	26.1	100	ne.			1-2	2?			light	light	sm'h		cloudy.?
Ashuelot, Shanghai, China	30.54	775.7	33	0.6	79	e.			1	2		calm					clear.
Brooklyn, S. 46° 23′ W. 62° 54′*	29.39	746.5	60	15.6	87	wsw.	15	6.7		10		sw.	0	0	r'gh	sw.	cloudy.
Colorado, New York, N. Y.	30.23	767.8	28	— 2.2	100	ne.	2	0.9		0			0	0			clear.
Enterprise, N. 37° 42′, W. 63° 50′*	30.04	763.0	61	16.1	94	n.			3	10		calm			mod.	ne.	cloudy.
Essex, Callao, Peru	29.96	761.0	66	18.9	90	calm			0	10		se.					overcast.
Franklin, Norfolk, Va.	30.06	763.5	41	5.0	83	ne.	6	2.7		10			0	0			cloudy.
Galena, Montevideo, Uruguay*	29.89	759.2	73	22.8	95	e.			3	8		se.			sm'h		fair.
Hartford, S. 25° 34′, W. 75° 37′ *	29.98	761.5	66	18.9	90	sse.			1	10		se.			sm'h	s.	cloudy.
Independence, Mare Island, Cal	30.47	773.9	39	3.9	100	calm			0	8			0	0			cloudy.
Iroquois, Callao, Peru	29.98	761.5	66	18.9	94	sse.			1	10							overcast
Jamestown, Boston, Mass*†	30.16	766.1	20	— 6.7	100	nw.			1	5							fair.
Juniata, N. 36° 50′, W. 11° 25′*	29.28	743.7	62	16.7	94	s.			8	10		calm	hv'y	hv'y	r'gh	var.	squally.
Kearsarge, Port of Spain, Trinidad, W. I.	30.05	763.3	75	23.9	100	calm			0	8		se.					fair.
Lackawanna, N. 6° 18′, W. 124° 34′*	29.88	758.9	74	23.3	95	sw.			3	10					mod.	ne.	cloudy.
Lancaster, Genoa, Italy	29.99	761.7	36	2.2	80	n.			8	2		n.					squally.
Michigan, Erie, Pennsylvania	29.97	761.2	23	— 5.0	72	n.			4	10		w.					snowing.
Minnesota, New York, N. Y.	30.16	766.1	27	— 2.8	77	nne.	3	1.3		2							hazy.
Monocacy, Nagasaki, Japan	30.39	771.9	44	6.7	84	n.			2	0							clear.
New Hampshire, Newport, R. I.	30.08	764 0	28	— 2.2	88	nne.			4	2		calm			sm'h		fair.
Nipsic, Lisbon, Portugal.	29.57	751.2	50	10.0	?	sew.			4	10		sew.					showery.
Onward, Callao, Peru*†	30.06	763.5	65	18.3	100	s.			2	10		n.					cloudy.
Palos, Tientsin, China*	30.23	767.8	28	— 2.2	77	wsw.			1	0							clear.
Pensacola, Panama, U. S. C*	29.84	757.9	75	23.9	90	nw.	5	2.2		1		nw.	0	0	sm'h		fair.
Portsmouth, Boston, Mass.	30.13	765.3	24	— 4.4	?	nnw.			1	5							clear.
Powhatan, Boston, Mass	30.15	765.8	18	— 7.8	100	nnw.			1	2							fair.
Quinnebaug, Genoa, Italy.	29.99	761.7	36	2.2	70	n.			6	2		calm					clear.
Ranger, N. 20° 05′, W. 115° 36′ *	30.01	762.2	68	20.0	79	nnw.			3	5?		calm	0	0	mod.	nw.	cloudy.?
Richmond, Hong-Kong, China*	30.21	767.3	61	16.1	70	ene.			3	0			0	0			clear.
Saratoga, New York, N. Y.	30.16	766.1	29	— 1.7	78	nw.			1	0			0	0			clear.
St. Louis, League Island, Pa.	30.16	766.1	25	— 3.9	88	nne.			2	2			0	0			clear.
Tennessee, St. Pierre, Matinique, W. I.*	30.06	763.5	80	26.7	86	e.	5	2.2		5			0.02	0.5			fair.
Vandalia, N. 18° 33′, W. 66° 11′*	30.10	764.5	76	24.4	90	wsw.			1	2		calm					fair.
Wabash, Boston, Mass.	30.17	766.3	18	— 7.8	67	nnw.	2	0.9		2		nw.	0	0			fair.
Wachusetts, Mare Island, Cal	30.38	771.6	40	4.4	81	calm			0	0							clear.
Wyandotte, Washington, D C	30.09	764.3	36	2.2	70	se.			2	10		calm	0	0			cloudy.
Yantic, N. 13° 28′, W. 71° 32′	30.07	763.8	79	26.1	90	e.			4	0					sm'h		clear.
Merchant Marine.																	
S. S. Grecian, Glasgow, Scotland*	30.26	768.6	40	4.4	91	e.			1	10			0	0			dense fog.
S. S. Polynesian, Halifax, N. S*	29.86	758.4	21	— 6.1		nw.			4	3		nw.	rain	rain			fair.
S. S. British Crown, Liverpool, Eng.			35	1.7		se.			2	7		se.	0	0			hazy.
S. S. Indiana, Liverpool, England			45	7.2	92	se.			3	10		e.					hazy.
S. S. Lord Clive, N. 50° 16′ W. 29° 17′	29.52	749.8				nnw.			9	10		nnw.	7 h'r	7 h'r	high	nnw.	raining.
S. S. Lord Gough, N. 44° 32′, W. 53° 58′	29.61	752.1	40	4.4		w.			6	10		w.	o	o	cross	sw.	cloudy.
S. S. Ohio, N. 42° 27′ W. 61° 33′†	29.86	758.4	34	1.1	90	nnw.			5	3		wnw.			r'gh	wnw.	fair.
S. S. Pennsylvania, St. George Channel†	30.04	763.0	41	5.0	91	sse.			3	4?		se.	o	o	mod	s.	cloudy.?
S. S. Jason, N. 41° 25′, W. 62° 30′			41.0	5.0		wnw.			6	8 n							
S. S. Stella, N. 51° 11′ W. 20° 56′	29.24	742.7	52	11.1		sw.			2	8		sw.	16 h'r	16 h'r	3	ssw.	raining.
S. S. Bolivia, N. 46° 36′, W. 45° 13′	29.94	760.5	32	0.0	100	e.			1			nw.	o	o	hv'y	n.	squally.
S. S. Dorian, Castellamare, Sicily *	29.62	752.3				sw.			6	10		sw.	8 h'r	8 h'r			cloudy.
S. S. Utopia, N. 34° 20′, W. 65° 18′†	30.28	709.1	64	17.8	94	calm			0	10		w.	3 h'r	3 h'r	sm'h	w.	overcast.
S. S. Antillas, Mayaguez, W. I†	30.26	768.6				ne.									sm'h		
S. S. Ambrose, Amazon River, Brazil	30.00	702.0	80	26.7		e.			2				4 h'r	4 h'r			cloudy.
S. S. Carroll, N. 44° 10′, W. 64° 11′*†	30.12	765.0	22	— 5.6		nw.			6	8?		nw.	rain	rain	short	nw.	clear.?
S. S. Auckland, S. 56° 19′, W. 86° 33′	29.94	760.5				e.			8	6		ene.	o	o	h'vy	e.	cloudy.
S. S. Caldew, S. 22° 31′, E. 73° 49′	29.20	741.7	43	6.1	83	wsw.			5	6							showery.
S. S. City of Agra, S. 56° 31′, W. 76° 45′	30.12	765.0	76.5	24.7	82	e.			4	3							d. clouds.
S. S. Gordon Castle, N. 34° 09′, E. 22° 48′	29.97	761.2	42	5.6	83	wsw.			5	7							d. clouds.
S. S. Scotia, N. 36° 44′ E. 6° 17′	30.22	767.6	59.5	15.3	71	s.			1	2							d. clouds.
S. S. Lake Huron, N. 50° 52′, W. 17° 04′*	29.97	761.2	59	15.0	76	sw.			1-5	10							overcast.
S. S. Mexico, N. 32° 29′, W. 117° 32′†	29.22	742.2	48	8.9		ese.			8	8		se.	1 h'r	1 h'r	r'gh	se.	
S. S. Marathon, N. 49° 50′, W. 28° 00′	30.36	771 1	45	7.2	?	ne.			4	0					mod.	w.	
	29.42	747.3	40	4.4		nw.			7	10		nw.	4 h'r	4 h'r	high	nw.	stormy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
MERCHANT MARINE.—Continued.																	
S. S. Pavonia, N. 43° 48′, W. 47° 21′	29.84	757.9	46	7.8	92	sse.			4		10	ssw.	sleet	sleet	mod.	w.	fair.
S. S. Colina, N. 41° 05′, W. 58° 32′†	29.85	758.2				wnw.			5		8	nnw.	0	0	cross	nw.	cloudy.
S. S. Canada, N. 49° 59′, W. 19° 40′	29.48	748.8	50	10.0		se.			6		K	se.	rain	rain	h'vy	se.	rainy.
S. S. Labradore, N. 47° 10′, W. 46° 01′			28.4	—2.0		ne.			1		2	sw.	0	0	h'vy	nnw.	clear.
S. S. Abyssinia, N. 47° 03′, W. 39° 17′	29.85	758.2	43	6.1	83	nw.			6		10	hw.	snow	snow	r'gh	nw.	snowy.
S. S. Wisconsin, English Channel	29.95	760.7	41	5.0		se.			6		5?	se.	0	0	mod.	se.	cloudy.†
S. S. Wyoming, N. 49° 44′, W. 33° 44′			40	4.4		nnw.			6		7	n.	hail	hail	r'gh	n.	hailing.
S. S. Bohemia, Hamburg, Germany*†	30.26	768.6				ne.			3		8		snow	snow			fair.
S. S. Rugia, N. 50° 02′, W. 17° 55′	29.48	748.8	52	11.1		se.			6–7		10	se.	1 h'r	1 h'r	0	se.	rainy.
S. S. Silesia, N. 43° 27′, W. 52° 27′†	29.65	753.1	40.0	4.4		e.			7		8	se.			7	ese.	rainy.
S. S. Vandalia, N. 53° 42′, E. 5° 53′	30.31	799.9	38.8	3.8		ene.			6		8	ene.			mod.	e.	hazy
S. S. Wieland, N. 46° 48′, W. 40° 14′	29.90	759.4				nw.			4		5	nw.	hail	hail	mod.	nw.	fine.
S. S. Mentmore, N. 46° 40′, W. 46° 28′						sse.			6		8	nw.	hail	hail	con.		threatening.
S. S. Archimedes, S. 8° 42′, W. 34° 10′	29.89	759.2				e.			4		3	se.	0	0	light	e.	clear.
S. S. Hevelius, Liverpool, Eng †	30.22	767.6	34	1.1		ese			4		8	s.	0	0			hazy.
S. S. Ptolemy, N. 36° 49′, W. 14° 34′	29.43	747.5	59.6	15.3	85	w.			6	cs	4 8	s.	1.17	29.7	con.	var.	d. clouds.
S. S. Sirius, N. 2° 30′, W. 41° 40′*	29.86	758.4				ne.			5		10	ne.	2 h'r	2 h'r	long	ene.	raining.
S. S. Colorado, N. 34° 51′ W. 75° 06′ †	30.00	702.0	64	17.8		e.			2		10	e.	22 h'r	22 h'r	long	ene.	cloudy.
S. S. San Marcos, N. 25° 10′ W. 84° 15′	29.97	761.2	76	24.4		s.			4		5	ssw.	0	0	sm'h		fine.
S. S. Archimede, Marseilles, France †	29.85	758.2	48	8.9	93	e.			1		8	w.	3 h'r	3 h'r			cloudy.
S. S. Hermod, N. 47° 13′, W. 37° 10′†	29.74	755.4	41	5.0		w.			9		6	wsw.	snow	snow	high	wnw.	squally.
S. S. Alleghany, Baltimore, Md †	30.18	766.6	38	3.3		e.			2		10		0	0			cloudy.
S. S. Glenfyne, N. 26° 48′, W. 63° 18′						se.			2		1	se.	0	0	sm'h	se.	fair.
S. S. Dominion, N. 51° 40′, W. 24° 48′*†	29.26	743.2	53	11.7		ese.			4		8	ese.	0	0	light	e.	cloudy.
S. S. Chalmette, Algiers, La †	29.95	760.7	58	14.4		n.			1		1		0	0			clear.
S. S. Denmark, New York, N. Y †	30.09	764.3	26	— 3.3		calm			0		10?	n.	0	0			clear?
S. S. England, N. 50° 31′, W. 17° 55′	29.36	745.7				e.			6		10	e.	6 h'r	6 h'r	high	e.	raining.
S. S. Erin, Liverpool, Eng *†	30.12	765.0	46	7.8		sw.			3		2	w.	6 h'r	6 h'r			
S. S. Greece, N. 49° 40′, W. 27° 30′	29.32	744.7	42	5.6		sw.			5		10	nw.	8 h'r	8 h'r	h'vy	nw.	threatening.
S. S. Helvetia, N. 39° 36′ W. 65° 00′	30.04	763.0	44	6.7		nnw.			5		2	n.	0	0	short	nnw.	fine.
S. S. Santiago, St. Jago, W. I.	30.26	768.6	72	22.2	95	n.			3		4	n.	0	0	sm'h		fine.
S. S. City of Alexandria, Progresso roads, C. A†	29.96	761.0	72	22.2	95	se.			2		2	se.	0	0			clear.
S. S. City of Merida, S. 28° 58′, W. 80° 07′†	30.05	763.3	77.0	25.0		ssw.			5		10	ssw.	11 h'r	11 h'r	mod.	se.	rainy.
S. S. City of Washington, Vera Cruz, Mexico †	29.98	761.5	76	24.4		se.			2		5	e.	0	0	sm'h		fine.
S. S. Alps, N. 37° 30′, W. 74° 00′	30.05	763.3	67	19.4		ene.			3						sm'h		overcast.
S. S. Alpin, N. 24° 24′, W. 81° 54′	30.03	762.7	71	21.7		se.			4						sm'h		fair.
S. S. Neckar, N. 47° 25′, W. 36° 53′	29.84	757.9	40.5	4.7	?	nnw.			6		5	nnw.	snow	snow	cross	n.	squally.
S. S. Oder, N. 41° 16′, W. 63° 56′	30.08	764.0	42.8	6.0		nw.			4		8	nw.	2 h'r	2 h'r	long	nw.	cloudy.
S. S. Sailer, Brouwershaven, Netherlands*†	30.37	771.4				e.			4		10	e.	0	0			cloudy.
S. S. Strassburg, S. 12° 45′, W. 35° 05′	30.02	762.5	80.0	26.7	87	e.			3		3	e.	0	0	mod.	e.	clear.
S. S. Werra, N. 52° 12′, E. 3° 15′	30.26	768.6	39.2	4.0		ne.			5–6		3	ene.	0	0	mod.	ene.	clear.
S. S. Belgic, N. 34° 51′, W. 174° 26′ *†	29.96	761.0	59	15.0	59	w.			0		5	w.	0	0	r'gh	w.	fair.
S. S. Coptic, N. 30° 05′, E. 131° 20′	30.29	769.4	56.5	13.6	75	nnw.			6		3	nw.	0	0	slight	nne.	clear.
S. S. Gaelic, N. 34° 30′, E. 153° 17′	29.61	752.1	64	17.8	100	sSW.			7		10	w.	2 h'r	2 h'r		sw.	cloudy
S. S. Oceanic, N. 48° 15′, W. 164° 40′ *	29.26	743.2	38	3.3	90	nne.			7		10	ne.			mod.	nne.	overcast.
S. S. City of Augusta, N. 36° 39′, W. 74° 04′ †	29.99	761.7				nne.			5		10	ne.	0	0			cloudy.
S. S. Mississippi, N. 44° 00′, W. 124° 40′*†	30.55	776.0	48	8.9		s.			2		0				mod.	wnw.	clear.
S. S. Oregon, N. 40° 21′, W. 124° 38′†	30.49	774.4	49	9.4	85	n.			2		0				light	wnw.	clear.
S. S. Ancon, N. 32° 38′ W. 117° 14′†	30.29	769.4	57	13.9	99	ene.			1		0				sm'h		clear.
S. S. City of Chester, San Francisco, Cal*†	30.42	772.7	46	7.8	84	nw.			2		0						clear.
S. S. G. W. Elder, Seattle, Wash. Ter †	30.47	773.9	39	3.9	82	se.			1		2	sw.					rainy.
S. S. State of California, N. 42° 20′, W. 124° 40′†	30.58	776.7	46	7.8	92	ese.			2		0		0	0	long	w.	clear.
S. S. Victoria, San Francisco, Cal *†	30.46	773.7	45	7.2		nnw.			3		2	nw.					fair.
S. S. City of New York, S. 11° 28′, W. 169° 25′†	29.04	760.5	83	28.3	79	n.			2		0		0	0	mod.	n.	clear.
S. S. City of Sydney, S. 35° 40′, E. 175° 34′†	30.25	768.3	67	19.4	74	e.			3		8	ne.	0	0	mod.	ne.	cloudy.
S. S. City of Toked, Hong Kong, China†	30.33	770.4	58	14.4	70	ne.			1				0	0	small	nw.	clear.
S. S. Colima, N. 16° 04′, W. 94° 18′†	29.95	760.7	84	28.9	53	n			3		2	n.	0	0	mod.		clear.
S. S. Grenada, N. 17° 54′, W. 102° 37′†	30.03	762.7	75	23.9	81	e.			1		2	e.	0	0	sm'h	nw.	clear.
S. S. San José, N. 8° 54′, W. 79° 30′*†	29.88	758.9				nnw.			2	2 c	0	wnw.	0	0	light	nw.	
S. S. Zealandia, Sydney, N. S. W*.	29.87	758.7	68	20.0	84	s.			3		5?	se.					cloudy?
S. S. Muriel, St. Kitts, W. I*	30.08	764.0	80	26.7		e.			4		0		0	0	sm'h		fair.
S. S. Caracas, N. 22° 23′, W. 68° 23′†	30.22	767.6	78.5	25.8	82	ese.			6		2	se.	½h'r	½h'r	mod.	se.	fine.
S. S. Oladius, N. 37° 10′, W. 75° 00′†	30.14	765.5				ne.			3		3	e.	0	0	short	e.	fair
S. S. Valencia, N. 19° 13′, W. 68° 00′†	30.19	766.8	79	26.1	86	ese.			5		6	ese.	5 h'r	5 h'r	mod.	ese.	rainy.
S. S. Belgenland, Antwerp, Belgium			32	0.0	90	ne.			2		7	e.	0	0			cloudy.
S. S. Pennland, N. 50° 24′, W. 11° 14′	29.86	758.4	48	8.9	85	ese.			0		9	sse.	0	0	mod.	se.	cloudy.
S. S. Rhynland, N. 48° 00′, W. 41° 40′	29.85	758.2	32	0.0	100	wnw.			3		5	wnw.	0	0	long	nw.	fair.
S. S. Switzerland, N. 50° 08′ W. 17° 42′†	29.40	749.7				se.			6		10	se.	3 h'r	3 h'r	h'vy	e.	cloudy.
S. S. Waesland, N. 41° 09′, W. 64° 40′	30.13	765.3	42	5.6		nw.			5		7	ne.	3 h'r	3 h'r	mod.	nw.	fair.
S. S. Maas, N. 41° 49′, W. 49° 14	29.70	750.7	44.4	6.9		wsw.			4		1		12 h'r	12 h'r	4	nw.	fair.
S. S. Schiedam, N 47° 38′ W. 31° 32′	29.82	757.4	45.7	7.6	64	nw.			8		5	wnw.	0	0	h'vy	nw.	cloudy.
S. S. W. A. Scholten, N. 44° 49′, W. 54° 44′	29.77	756.1	37.4	3.0	98	wnw.			7		8	wnw.	0	0	cross	w.	fair.
S. S. State of Florida, N. 54° 37′, W. 17° 13′	29.61	752.1	53	11.7		sse.			7		10	se.	0	0	h'vy	sse.	overcast.
S. S. State of Georgia, Mull of Cantyre, Scotland†	30.25	768.3	41	5.0		se.			9		9	e.	0	0	sm'h		hazy.
S. S. State of Indiana, N. 44° 30′, W. 52° 56′†	29.64	752.8	36	2.2		nw.			7		7		wnw.	8 h'r	8 h'r	mod.	nw.	cloudy.
S. S. Iowa, N. 42° 32′, W. 65° 50′*†	30.20	767.1	35	1.7		nnw.			4		5	nw.	0	0	con.		fair.
S. S. Plantyn, N. 39° 24′, W. 65° 52′	30.15	765.8							5		4	nne.	0	0	sm'h	n.	clear.
S. S. Baltic, off Roche Point, Eng *	29.97	761.2	44	6.7	84	sse.			6		8	sse.	0	0	r'gh	se.	d. clouds.
S. S. Britannic, N. 41° 00′, W. 62° 40′†	30.03	762.7	41	5.0	91	n.			4		4	nw.	0	0	mod.	con	fair.
S. S. Germanic, N. 50° 24′, W. 31° 50′†	29.54	750.3	45	7.2		nnw			6		2	nw.	shr's	shr's	r'gh	nnw.	d clouds.
S. S. Lepanto, N. 42° 35′, W. 66° 47′*	30.24	768.1	32	0.0		n.			6		2	n.	0	0			clear.
S. S. Romano, N. 47° 30′, W. 31° 23′ *†	29.51	749.5	42	5.6		nnw			7		7	nw.	hail	hail	h'vy	nw.	squally.
S. S. Salerno, N. 43° 55′, W. 50° 55′	29.70	754.4	30	—1.1		wsw.			7		10	wnw.	2 h'r	2 h'r	mod	w.	raining.
S. S. Catherine Whiting, Delaware River†	30.15	765.8				nw.			1				0	0			hazy.
S. S. Norman, N. 42° 23′, W. 71° 07′ †	30.19	766.8				nw.			5				0	0			clear.
S. S. Saxon, N. 40° 25′, W. 73° —′†	30.08	764.0	31	—0.6		nne.			3		2	nw.	0	0	sm'h		fine.
MISCELLANEOUS																	
Schr. Abbie H. Gheen, N. 32° 00′, W. 79° 30′†	30.01	762.2	60	15.6		s.			1				0	0			
Bk. Adelaide, N. 1° 22′, W. 30° 32′*†	29.93	760.2	83	28.3		se.			5			ese.	3 h'r	3 h'r	mod	se.	clear.
Bk. Alpha, N. 7° 23′, W. 53° 01′*†	29.90	761.0	82	27.5		ene.			0		5	ene.	1 h'r	1 h'r	mod	ne.	cloudy.
Schr. Anna A. Holton, N. 22° 17′, W. 97° 37′†	29.97	761.2	75	23.9		ssw.			2		5	s.	0	0	sm'h	n.	hazy.
Bk. Anna Thormann, S. 29° 48′, E. 9° 55′	30.10	764.5	70.0	21.1	73	sSW.			2		1 k	sw.	0	0	long	ssw.	clear.
S. S. Antonio Lopez, Cadiz, Spain	29.80	759.9	59	15.0	59	s.			5		10		1 h'r	1 h'r			cloudy.
Bk. Aquidneck, N. 29° 18′, W. 68° 43′ *†	30.30	769.0	79	26.1		var.			3		0		0	0			clear.
Bgt. Arthur, S. 2° 32′, W. 22° 50′ *†	29.98	761.5				se.			4		2	se.	0	0	mod.	var.	
Bk. B. F. Watson, N. 20° 28′, E. 122° 55′ †	30.19	766.8	74	23.3		ene.			4		2		14 h'r	14 h'r	r'gh	ne.	clear.
Bg. Belle of the Bay, Galveston, Texas†	29.93	760.2				w.			7		3	wnw.	0	0			clear.
Bk. Bremen, N. 47° 25′, W. 9° 55′*	29.47	748.5				ese.			0		10	sse.	2 h'r	2 h'r	cross	var.	cloudy.
S. S. Burswell, N. 42° 27′, W. 39° 54′*†	29.94	760.5	51	10.0		ene.			1		9	ne.	2 h'r	2 h'r	high	nnw.	cloudy.
Bk. Champion, Philadelphia, Pa									3		8	nw.	0	0			fair.
Bk. Commerce, N. 36° 43′ W. 43° 36′ †.	29.68	753.9	40	4.4		n.			0		10	w.	14 h'r	14 h'r	cross	var.	threatening.
Bk. E. D. Bigelow, N. 46° 14′, W. 15° 00′*†	29.30	744.2	56	13.3		ese.			9		10	ese.	sh'rs	sh'rs	long	se.	gloomy.
Schr. Edith R. Seward, Wilmington, N. C†	29.99	761.7	53	11.7		e.			1		8		18 h'r	18 h'r			rainy.
Bk. Edmund Phinney, N. 1° 35′, W. 31° 21′†	29.94	760.5	83	28.3		sse.			4		6		0	0	r'gh		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
S. E. J. Spicer, Liverpool, Eng	30.27	768.8	46	7.8	92	se.	.....	.....	2	.....	10	.....	se.	.....	.....	.....	.....	hazy.
Bk. E. L. Pettingill, S. 28° 39′, W. 120° 00′*†	30.20	767.1	72	22.2	.....	ese.	.....	.....	4	.....	10	.....	e.	mod.	mod.	r'gh	ssw.	
Bk. Essex, Majambo, Madagascar*†	29.90	759.4	90	32.2	.....	nw.	.....	.....	6	.....	.....	.....	.....	sq'll	sq'll	light	nw.	clear.
Schr. F. E. McDonald, St. John's Bar, Fla†	29.97	761.2	60	15.6	.....	s.	.....	.....	1	.....	10	.....	.....	6 h'r	6 h'r	sm'h	.....	foggy.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†	30.16	766.1	36	2.2	80	calm	.....	.....	0	.....	10	.....	calm	.....	.....	.....	.....	cloudy.
S. S. Foscolia, N. 51° 02′, E. 2° 23′	.....	.....	.....	.....	.....	ese.	.....	.....	4	.....	5	.....	ese.	0	0	.....	.....	fair.
Bk. Freya, Matanzas, Cuba, W. I.	.....	.....	73	22.8	.....	calm	.....	.....	0	.....	1	.....	se.	0	0	.....	.....	fair
Bg. George, Ponce, Porto Rico, W. I.*†	30.20	767.1	.....	.....	.....	ne.	.....	.....	1	.....	2	.....	.....	light	light	mod.	.....	fair.
S. George Stetson, N. 10° —′, W. 30° —′*†	30.08	764.0	74	23.3	81	ene.	.....	.....	6	.....	17	.....	ne.	light	light	chop	ne.	cloudy?
Bk. Gronsvaer, Auckland, N. Z	30.22	767.6	69.6	20.9	.....	n.	.....	.....	4	.....	3	.....	nne.	0	0	.....	.....	fair.
Bk Hattie G. McFarland, Demerara, Brit. Guiana*†	30.03	762.7	77	25.0	.....	e.	.....	.....	5	.....	6	.....	e.	2 h'r	2 h'r	.....	.....	
Schr. Hattie Weston, N. 28° 15′, W. 60° 00′*†	30.34	770.6	72	22.2	.....	s.	.....	.....	1	.....	2	.....	sw.	0	0	mod.	ne.	clear
S. Hedwig, N. 43° 17′, W. 56° 12′	29.88	758.9	46.4	8.0	.....	nnw.	.....	.....	6	.....	7	.....	nnw.	snow	snow	4	nw.	clearing.
Bk. Heinrich & Tonio, N. 50° 23′, W. 1° 30′	.....	.....	51.5	10.8	.....	ene.	.....	.....	6	.....	0	.....	.....	0	0	light	e.	hazy.
Schr. Isabel Alberto, Jersey City, N. J.†	29.20	741.7	.....	.....	.....	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Schr. James Slater, N. 40° 41′, W. 74° 01††	30.16	766.1	28	—2.2	.....	wnw.	.....	.....	2	.....	2	.....	w.	0	0	.....	.....	hazy.
Bk. Johanne, N. 47° 44′, W. 11° 00′ *†	29.55	750.6	51	10.6	.....	ese.	.....	.....	6	.....	8	.....	se.	2 h'r	2 h'r	h'vy	ne.	misty.
Schr. John L. Thomas, N. 27° 50′, W. 65° 56′*†	30.26	768.6	.....	.....	.....	s.	.....	.....	1	.....	1	.....	s.	0	0	mod.	se.	fine.
Bkt. Josephine, S. 4° 22′, W. 29° 45′†	29.93	760.2	84	28.9	71	ese.	.....	.....	4	.....	0	.....	.....	0	0	mod.	ese.	clear.
S. S. J. W. Wilson, Port Eads, La*†	29.93	760.2	58	14.4	.....	nw.	.....	.....	2	.....	2	.....	nw.	10 h'r	10 h'r	.....	.....	foggy.
Light House Tender Laurel, Key West, Fla†	30.02	762.5	76	24.4	.....	s.	.....	.....	1	.....	7	.....	ssw.	0	0	sm'h	.....	fair.
Bg. Lillan, Georgetown, British Guiana	30.09	764.3	81	27.2	.....	ne.	.....	.....	4	.....	7	.....	e.	0	0	.....	.....	cloudy.
Bk. Louise Adelaide, Vera Cruz, Mexico.	.....	.....	.....	.....	.....	sw.	.....	.....	1	.....	4	.....	sw.	0	0	long	n.	fine.
Bg. L. & W. Armstrong, N. 32° 27′, W. 71° 45′*†	30.12	765.0	.....	.....	.....	nne.	.....	.....	2	.....	7	.....	var.	1 h'r	1 h'r	sm'h	nne.	overcast.
S. S. Malabar, Valencia, Spain *†	29.85	758.2	.....	.....	.....	wnw.	.....	.....	7	.....	.....	.....	wnw.	0	0	sm'h	.....	cloudy.
Schr. Minnie A. Bonsall, Jacksonville, Fla †	30.04	763.0	68	20.0	.....	w.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
S. Minnie N. Gerow, N. 37° 40′, W. 70° 45′*†	30.06	763.5	.....	.....	.....	ne.	.....	.....	3	.....	7	.....	ne.	.....	.....	sm'h	w.	fair.
S. M. P. Grace, S. 42° 33′, W. 40° 07′ *—	29.90	759.4	50	10.0	.....	e.	.....	.....	1	.....	1	.....	nw.	0	0	sm'h	sw.	fine.
Bg. Myrtle, N. 27° 42′, W. 58° 00′*†	30.10	704.5	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	sm'h	.....	fair.
Bkt. Norena, N. 26° 26′, W. 76° 40′*†	30.16	766.1	.....	.....	.....	sw.	.....	.....	3	.....	2	.....	sw.	0	0	sm'h	.....	fine.
Bg. O. C. Clary, Miragoane, Hayti, W. I.*†	30.00	762.0	80	26.7	91	n.	.....	.....	2	.....	1	.....	ne.	.....	.....	.....	.....	
Bk. Ottawa, N. 37° 26′, W. 0° 33′*	29.96	761.0	58	14.4	.....	sw.	.....	.....	1	.....	7	.....	wsw.	0	0	sm'h	ne.	cloudy.
S. Paramita, San Francisco, Cal	30.35	770.9	48	8.9	.....	e.	.....	.....	2	.....	.....	.....	.....	0	0	.....	.....	clear.
Schr. Pearl Nelson, Hampton Roads, Va*†	30.10	764.5	56	13.3	.....	ene.	.....	.....	6	.....	5	.....	ne.	.....	.....	.....	ne.	
S. S. Raleigh, Kingston, Jamaica, W. I*†	29.97	761.2	81	27.2	.....	se.	.....	.....	2	.....	4	.....	se.	0	0	.....	.....	
Bk. Reindeer, N. 27° 31′, W. 61° 53′*	30.22	767 6	.....	.....	.....	sse.	.....	.....	.....	.....	2	.....	se.	0	0	long	e.	
S. Rudolph, N. 50° 23′, W. 1° 54′	.....	.....	36.3	2.4	.....	ene.	.....	.....	6	.....	1	.....	ene.	0	0	mod.	ene.	hazy.
Schr. S. B. Hubbard, Jacksonville, Fla *†	30.05	763.3	68	20.0	.....	calm	.....	.....	0	.....	fg.	.....	.....	12 h'r	12 h'r	.....	.....	foggy.
Bk. Scud, N. 29° 11′, W. 59° 30′*†	30.29	769.4	72	22.2	.....	var.	.....	.....	1	.....	5	.....	.....	driz.	driz.	sm'h	.....	
Bk. Southern Belle, N. 32° 53′, W. 23° —′*†	29.80	756.9	63	17.2	.....	nw.	.....	.....	5	.....	5?	.....	w.	3 h'r	3 h'r	hv'y	nw.	clear?
S. Sovereinn of the Seas, N. 5° 30′, W. 113° 52′*†	30.04	763.0	77	25.0	100	ssw.	.....	.....	5	.....	10	.....	sw.	1 h'r	1 h'r	long	ene.	cloudy.
Bk. Sunbeam, N. 40° 45′, W. 14° 01′*†	29.20	741.7	60	15.6	100	s.	.....	.....	8	.....	10	.....	s.	8 h'r	8 h'r	r'gh	s.	rainy.
S. S. Sunbeam, N. 24° 53′, W. 83° 31′	30.03	762.7	75	23.9	90	se.	.....	.....	2	.....	8	.....	se.	8 h'r	8 h'r	.....	.....	d. clouds.
S. Titan, N. 33° 49′, W. 46° 00′ *†	30.08	764.0	67	19.4	89	w.	.....	.....	5	.....	1	.....	w.	0	0	r'gh	var.	fair.
Bk. Wandering Jew, Montevideo, Uruguay †	29.92	760.0	73	22.8	.....	ne.	.....	.....	3	.....	8	.....	ne.	0	0	.....	.....	fair.
Schr. Wm. Wiler St. John's River, Fla†	30.06	763.5	.....	.....	.....	calm	.....	.....	0	.....	2	.....	sw.	6 h'r	6 h'r	.....	.....	fine.
Bk. Xenia, N. 34° 18′ W. 55° 13′*†	30.14	765.5	71	21.7	.....	w.	.....	.....	5	.....	8	.....	w.	4 h'r	4 h'r	mod.	w.	cloudy.

International Chart I. January 8, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B.Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 9, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.94	760.4	61.5	16.4	87	ne.	.....	.....	0	.....	3	.....	.....	0	0	pretty fair..	Malaterre.
Algiers	.....	.....	29.90	760.9	64.0	17.8	53	s.	.....	.....	2	.....	8	.....	.....	0	0	very cloudy	Thève.
La Calle	.....	.....	30.02	762.6	72.3	22.4	31	sw.	.....	.....	2	.....	3	.....	.....	0	0	pretty fair..	Fonfréde.
Tunis	.....	.....	30.01	762.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.05	763.3	57.6	14.2	80	s.	.....	.....	2	.....	10	.....	.....	0	0	covered.....	Pérès.
Tebessa	.....	.....	30.11	764.8	62.2	16.8	83	w.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Dognon.
Geriville	.....	.....	.....	.....	56.8	13.8	69	sw.	.....	.....	5	.....	3	.....	.....	0	0	pretty fair...	Louchamp.
Laghouat	.....	.....	30.18	766.6	57.2	14.0	47	ssw.	.....	.....	3	.....	2	.....	.....	0	0	fair.....	Abraham.
Biskra	.....	.....	30.15	765.9	58.3	14.6	35	se.	.....	.....	5	.....	6	.....	.....	0	0	cloudy.....	Malau.
Australian.																			
Melbourne, Victoria	29.84	757 9	29.93	760.2	61.4	16.3	73	ssw.	13	5.8	.....	.....	10	.....	.....	0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.67	753.5	30.26	768.6	23.4	— 4.8	73	w.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.36	745.7	30.17	766.4	26.2	— 3.2	96	wsw.	6.9	3.1	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.25	743 0	30.19	766.9	25.5	— 3.6	78	calm	.....	.....	0	0	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.93	734.8	30.27	768.8	24.1	— 4.4	60	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.67	728.1	30.22	767.7	15.3	— 9.3	91	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.63	727.3	30.07	763.7	23.2	— 4.9	83	ne.	.....	.....	2	.....	2 k	.....	.....	0	0	slightly cl'dy	The Staff.
Lemberg	28.99	736.4	30.03	762.7	29.5	— 1.4	78	nw	.....	.....	5	.....	10	.....	.....	0.012	0.3	.....	Dr. T. Stanecki.
Neu Schmecks	26.62	676.1	30.10	764.6	33.8	1.0	85	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.03	762.8	30.15	765.8	35.4	1.9	71	ene.	.....	.....	1	.....	10	.....	.....	0	0	.....	I. R Hydrographic Office.
Szathmar	29.71	754.5	30.17	766.4	23.0	— 5.0	62	e.	.....	.....	2	.....	.....	.....	.....	0	0	.....	Joseph Midlluszay, S J.
Szegedin	29.92	760.0	30.22	767.7	24.4	— 4.2	68	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.06	763.5	30.16	766.0	35.2	1.8	64	ne.	.....	.....	3	.....	0	.....	.....	0	0	.....	Royal Academy.
Vienna	29.48	748.7	30.25	768.3	23.7	— 4.6	58	ese.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'
British.																			
Aberdeen	30.05	763.3	30.15	765.8	40.4	4.7	73	se.	21	9.4	.....	.....	9	.....	.....	0	0	overcast.....	W. Boswell
Armagh, Observatory	29.61	752.1	29.85	758.2	39.2	4.0	67	e.	22	9.8	.....	.....	2	.....	.....	.....	.....	squally.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.79	756.7	38.5	3.6	67	ene.	37	16.5	.....	0	0	.....	.....	.....	.....	misty.....	John Hartnup.
Bolton, Sharples	29.26	743.2	29.80	756.9	37.2	2.9	89	e.	27	12.1	.....	.....	1	.....	.....	.....	.....	squally.....	Thomas Mackereth.
Bradford, Yorkshire	29.48	748.8	29.88	758.9	38.1	3.4	79	ne.	.....	.....	3	.....	5	.....	.....	0.29	7.4	d. clouds	McLandsborough & Preston'
Bridgetown, Barbadoes	30.00	762.0	30.03	762.7	80.0	26.7	74	ne.	.....	.....	2	c	3	.....	.....	.....	.....	d. clouds....	Corpl. J. Surgenor, A. H. C.
Cardington	.....	.....	.....	.....	37.0	2.8	71	e.	.....	.....	1.0	.....	4	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E.	29.02	752.3	29.75	755.6	36.4	2.4	70	e.	.....	.....	3	.....	6	.....	.....	blank	blank	d. clouds....	Corpl. G. A. Pickles.
Falmouth, Observatory	29.22	742.2	29.45	748 0	40.9	4.9	95	e.	.....	.....	7	.....	7	.....	.....	.....	.....	squally.....	The Staff.
Fort Napier, Natal	27.53	699.2	29.76	755.9	82.0	27.8	67	e.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky.....	Corpl. F. Milner, A. H. C.
Galway	29.04	752.8	29.68	753.9	40	4.4	73	e.	.....	.....	4	.....	0	.....	.....	0	0	blue sky.....	Wm. Ryan.
Gibraltar, Mediterranean	29.74	755.4	29.80	756.9	50.0	13.3	93	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	raining	Sgt. J. Norris, A. H C.
Glasgow, Observatory	29.81	757.2	30.02	762.5	38.6	3.7	79	ene.	.....	.....	4	.....	6	.....	.....	.....	.....	d. clouds....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.55	750.6	29.73	755.1	34.4	1.3	69	e.	.....	.....	5	.....	0	.....	.....	.....	.....	overcast.....	The Staff.
Guernsey	29.20	741.7	29.50	749.3	34.0	1.1	80	e.	.....	.....	4	.....	9	.....	.....	blank	blank	overcast.....	A. Collenette, F. M. S.
Kew, Observatory	29.69	754.1	29.73	755.1	34.4	1.3	69	e.	32	14.3	.....	.....	0	.....	.....	.....	.....	blue sky.....	The Staff.
Leicester, Museum	29.52	749.8	29.78	756.4	38.6	3.7	71	ne.	.....	.....	3	.....	2	.....	.....	.....	.....	d. clouds....	J. C. Smith.
Malta, Mediterranean	29.03	760.2	29.99	761.7	62.8	17.1	64	sw.	.....	.....	3	.....	6	.....	.....	0	0	d. clouds....	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.94	760.5	29.90	761.7	75.0	23.9	100	s.	.....	.....	3	.....	7	.....	.....	.....	.....	d. clouds....	C. S. Duncombe
Oscott, St. Mary's College	29.22	742.2	29.76	755.9	36.0	2.2	79	ene.	.....	.....	0	.....	7	.....	.....	.....	.....	threatening.	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.48	748.8	29.71	754.6	35.0	1.7	71	e.	.....	.....	0	.....	7	.....	.....	.....	.....	d. clouds....	The Staff.
Plymouth	29.43	747.5	29.50	749.3	37.7	3.2	75	ene.	.....	.....	6	.....	8	.....	.....	.....	.....	d. clouds....	John Merrifield.
Sandwick Manse, Orkneys	30.06	763.5	30.16	766.1	40.5	4.7	81	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	misty.....	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.08	764.0	30.15	765.8	33.0	0.6	95	ne.	.....	.....	1	.....	10	.....	.....	.....	.....	snowing.....	W. H. Lyne.
Sheffield	29.56	750.8	29.85	758.2	39.0	3.9	83	ne.	.....	.....	2	.....	5	.....	.....	0.10	4.1	d. clouds....	W. F. Cooper.
Silloth Rectory	29.91	759.7	29.94	760 5	40.5	4.7	75	ese.	.....	.....	5	.....	5	.....	.....	0	0	d. clouds....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.84	757.9	38.0	3.3	71	e.	33	14.8	.....	.....	5	.....	.....	.....	.....	d. clouds....	Rev. S. J. Perry.
Stratfield Turgiss	29.47	748.5	29.70	754.4	34.5	1.4	65	se.	.....	.....	3	.....	0	.....	.....	.....	.....	squally.....	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	29.37	746.0	29.42	747.3	41	5.0	73	e.	.....	.....	8	.....	10	.....	.....	.....	.....	gloomy.....	W. Newcombe.
Valencia, Observatory	29.46	748.3	29.49	749 0	42.0	5.6	65	e.	39	17.4	.....	.....	8	.....	.....	.....	.....	misty.....	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.93	760.2	29.97	761.2	10	—12.2	98	nw.	4	1.8	.....	.....	10 n	.....	w.	0.030	0.8	cloudy.....	H. J. Cundall, C E
Chatham, N. B*	29.97	761.2	30.04	763.0	4	—15.6	100	ne.	5	2.2	.....	.....	10 n	.....	ne.	0.01	0 3	light snow...	G. A. Blair.
Cornwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dalhousie	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Father Point, Quebec*	30.08	764 0	30.10	764.5	—21	—29.4	100	nw.	3	1.3	.....	0	2 8	.....	calm	0	0	clear.....	J. McWilliams.
Fort Garry, Manitoba*	28.59	726.2	29.50	749.3	1	—17.2	72	s.	20	11.6	.....	.....	10 n	.....	.....	0	0	cloudy	James Stewart.
Halifax, N. S*	29.80	756.9	29.94	760.5	15	— 9.4	96	n.	7	3.1	.....	.....	10 n	.....	.....	0.300	7.6	heavy snow	A. Allison.
Kingston, Ontario*	29.82	757.4	30.20	767.1	— 5	—20.6	91	n.	2	0.9	.....	0	2 8	.....	calm	0.31	7.9	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.88	758.9	30.11	764.8	— 1	—18.3	68	n.	1	0.4	.....	.....	10 n	.....	.....	0.03	0.8	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.39	746.5	30.16	766.1	2	—16.7	72	e.	4	1.8	.....	2 k	8 ks	w.	w.	0	0	cloudy.....	Rev. R. Mosley.
Port Dover, Ontario	29.40	746.7	30.15	765.8	13	—10.6	100	calm	0	0	.....	.....	10 n	.....	.....	0.15	3.8	cloudy	H. Morgan.
Port Stanley, Ontario	29.44	747.8	30.14	765.5	14	—10.0	83	n.	3	1.3	.....	.....	8 n	.....	n.	0.10	2.5	cloudy.....	M. Payne.
Quebec, Quebec*	29.09	754.1	30.05	763.3	2	—16.7	87	ne.	.....	.....	5	.....	10 n	.....	.....	0	0	cloudy.....	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.67	753.6	30.22	767.0	—29	—33.9	94	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	W. H. McIntyre.
Sangeen, Ontario*	29.32	744.7	30.10	764.5	11	—11.7	80	e.	6	2.7	.....	.....	10 s	.....	.....	0.00	1.5	cloudy.....	
St. Andrews, N. B	29.89	759.2	29.94	760.5	13	—10.6	90	n.	3	1.3	.....	0	hz.	.....	.....	0.07	1.8	clear.....	
Sydney, C. B*	29.92	760.0	29.99	761.7	15	— 9.4	96	ne.	2	0.9	.....	.....	10 n	.....	.....	0.05	1.3	light sn -w...	T. C. Hill, C. E
Toronto, Ontario*	29.75	755.6	30.17	766.3	10	—12.2	87	ne.	6	2.7	.....	.....	10 n	.....	.....	0.01	0.3	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.82	757.4	29.85	758.2	19	— 7.2	73	ne.	2	0.9	.....	.....	10 k	.....	ne.	0.05	1.3	cloudy	Lt. F. E. Wilmot, R N.
Cape Colony.																			
Cape St. Francis Lt. House	29.94	760.5	29.97	761.2	73.0	22.8	84	sw.	10.2	4.5	.....	0	8 k	.....	.....	0	0	hazy	John Duthie.
Springbok Fontein	27.88	708.1	.....	.....	81	27.2	33	s.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mili.	Weather.	OBSERVERS
Chinese (Sub-series).																			
Sung-shu-chwang	24.78	629.5	.....	.....	18.7	— 7.4	.....	ene.	.....	.....	1	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.27	768.8	30.38	771.6	28.2	— 2.1	66	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	**Mission, S. J.**
Zi-Ka-Wei, near Shanghai	30.21	767.2	30.23	767.8	39.2	4.0	89	sw.	2.9	1.3	.....	0	0	.....	.....	0	0	clear	M. Marc Dechevrens, S.J
Danish.																			
Copenhagen	30.12	765.1	30.17	766.3	31.1	— 0.5	96	nw.	7	3	.....	.....	10	.....	.....	.....	.....	hazy	**Oversergent Fischer.**
Fanoe	30.19	766.9	30.21	767.4	29.3	— 1.5	100	ene.	.....	.....	2	.....	10	.....	.....	.....	.....	hazy	**Overloerer Lauridsen.**
Godthaab, Greenland	29.61	752.2	29.66	753.3	15.4	— 9.2	91	ene.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	**S. Kleinschmidt.**
Ivigtut, Greenland	29.63	752.6	29.65	753.1	7.7	—13.5	.....	calm	.....	.....	0	.....	6	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.78	756.3	29.82	757 5	4.3	—15.4	.....	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.78	756.3	29.82	757.4	43.2	6.2	81	s.	.....	.....	7	.....	10	.....	.....	.....	.....	raining	**A. O. Thorlacius.**
Thorshavn	30.12	765.1	30.16	766.0	43.5	6.4	93	s.	16	7	.....	.....	10	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Vestervig	30.11	764.8	30.20	767.1	34.0	1.1	98	calm	.....	.....	0	.....	1	.....	.....	.....	.....	.....	**Loerer Oesterbol.**
Upernavik, Greenland	29.67	753.5	29.71	754.7	— 8.9	—22.7	.....	n.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	28.96	735.6	29.61	752.1	47.1	8.4	94	calm	.....	.....	0	.....	10	.....	.....	0	0	covered	**M. Labroue, Director.**
Alençon, Normal School	28.98	736.2	29.54	750.2	30.2	— 1.0	96	ne.	.....	.....	2	.....	10 n	.....	.....	.....	.....	snowing	**M. Nicot, Director.**
Arras, Engineer School	29.48	748.9	29.75	755.7	32.7	0.4	73	.....	.....	.....	2	.....	10	.....	.....	0	0	covered	**M. Fénéon, Command't.**
Avignon, Normal School	29.71	754.7	29.79	756.7	47.8	8.8	58	e.	.....	.....	4	.....	10	.....	s.	0	0	covered	**M. Giraud, Director.**
Bar-sur-Seine	29.18	741.2	29.76	755.9	32.5	0.3	95	sse.	.....	.....	3	.....	10	.....	ssw.	.....	.....	snowing	**M. Saillard, Director.**
Beauvais, Normal School	29.43	747.6	29.71	754.7	32.9	0.5	68	e.	.....	.....	2	.....	8	.....	s.	0	0	very cloudy	**M. Frère Eugène Marié.**
Besançon, Normal School	28.88	733.5	29.82	757.4	34.7	1.5	93	ne.	.....	.....	1	.....	n	.....	.....	0.04	1.	.....	**M. Gobin, Director.**
Bordeaux, Observatory	29.21	741.8	29.46	748.3	54.1	12.3	63	se.	.....	.....	2	.....	5	.....	.....	0.079	2.0	cloudy	**M. Rayet, Director.**
Bourges, Normal School	29.11	739.4	29.67	753.7	38.3	3.5	90	s.	.....	.....	1	.....	kn	.....	s.	0	0	.....	**M. Malet, Director.**
Brest, Naval Observatory	29.16	740.7	29.41	746.9	33.4	0.8	85	e.	.....	.....	3	.....	10	.....	e.	.....	.....	raining	**M. de Kermaréc, Dir.**
Caen, Normal School	29.44	747.7	29.52	749.7	29.1	— 1.6	100	n.	.....	.....	2	.....	10	.....	n.	0	0	covered	**M. Berson, Director.**
Châlons-sur-Marne, N.Sch'l	29.41	746.9	29.73	755.2	31.3	— 0.4	.....	se.	.....	.....	4	.....	5	s.	se.	0	0	cloudy	**M. Jadot, Director.**
Charleville, Normal School	29.29	743.9	29.69	754.1	33.1	0.6	96	ese.	.....	.....	1	.....	8	.....	.....	0	0	¾ covered	**M. Grimard, Director.**
Clermont-Ferrand Obs'y	28.24	717 3	29.60	751.7	48.6	9.2	48	s.	.....	.....	4	.....	10	.....	.....	0	0	covered	**M. Allnard, Director.**
Cluny, Normal School	28.89	733.8	29.76	755.8	33.4	0.8	95	ne.	.....	.....	1	.....	10	.....	ne.	.....	.....	light snow	**M. de Villemontée, Dir.**
Commercy, Normal School	28.98	736.1	29.88	759.0	28.8	— 1.8	92	e.	.....	.....	3	.....	5 n	e.	e.	0	0	cloudy	**Dr. Coulet, Director.**
Gap, Normal School	27.14	689.4	29.76	755.9	33.8	1	48	e.	.....	.....	3	.....	10 n	.....	.....	0.138	3.5	.....	**M. Jeangirard, Director.**
Grésque, du Rhone	28.72	729.6	29.89	759.1	39.9	4.4	81	se.	.....	.....	4	.....	10	.....	se.	0.205	5.2	.....	**M. Kinn, Director.**
Grenoble, Normal School	29.02	737.1	29.82	757.5	33.8	1	85	ese.	.....	.....	1	.....	kn	.....	s.	0.016	0.4	.....	**M. Ablard, Director.**
Guéret	27.97	710.5	29.55	750.5	48.6	9.2	58	s.	.....	.....	2	c	0	ssw.	.....	0.016	0.4	.....	**M. Delorme, Dir.**
Lamballe, Normal School	29.18	741.2	29.48	748.9	33.1	0.6	96	ese.	.....	.....	3	.....	10	.....	ese.	0	0	covered	**M. Ollitrault, Director.**
Lescar, Normal School	28.86	733.0	29.42	747.3	50.0	10.0	74	e.	.....	.....	1	0	5 k	.....	.....	0	0	cloudy	**M. Chauvin, Director.**
Lorient, Naval Observatory	29.33	744.9	29.43	747.5	32.7	0.4	96	e.	.....	.....	1	.....	10	.....	.....	0.394	10.0	rain & snow	**Lt. T. Carré, Director.**
Lyon, St. Genis-Laval	28.68	728.4	29.76	755.8	40.6	4.8	82	ese.	.....	.....	1	ck	10 n	se.	nnw.	0.012	0.3	covered	**M. André, Director.**
Mans, Normal School	29.22	742.2	29.54	750.3	30.7	— 0.7	96	se.	.....	.....	3	.....	10	.....	.....	0	0	covered	**M. Piboën, Director.**
Marseille, Observatory	29.59	751.6	29.86	758.5	44.2	6.8	85	ese.	.....	.....	4.5	.....	10	.....	ese.	0.327	8.3	light rain	**M. Stephan, Director.**
Montlouis	24 48	621.7	29.32	744.7	35.6	2.0	96	sw.	9.4	4.2	.....	.....	8	w.	.....	0.461	11.7	.....	**M. Carré for Dr. Finss.**
Montpellier, Normal School	29.60	751.8	29.81	757.1	46.0	7.7	97	e.	.....	.....	5	.....	5	e.	.....	1.89	48.	raining	**M. Galzin, Director.**
Nancy, Normal School	29.82	757.3	29.84	757.9	29.8	— 1.2	68	nne.	.....	.....	1	ck	0	.....	.....	0	0	.....	**M. Hasse, Director.**
Nantes, Observatory	29.33	745.0	29.49	749.1	32.5	0.3	90	ene.	.....	.....	0–1	.....	10	.....	.....	0	0	.....	**M. Larocque, Director.**
Perpignan, Observatory	29.50	749.3	29.61	752.1	56.1	13.4	71	sw.	18.6	8.3	.....	.....	10	.....	wsw.	0	0	.....	**Dr. Fines, Director.**
Pic-du-Midi, Summit	20.77	527.6	.....	.....	21.0	— 6.1	.....	sw.	.....	.....	3–4	.....	5	.....	sw.	0.020	0.5	cloudy	**M. Vaussenat.**
Privas, Normal School	28 76	730.6	29.85	758.3	40.3	4.6	97	s.	.....	.....	1	.....	10	s.	s.	0.75	19.	covered	**M. Tallieu.**
Puy de Dôme Obs'y, Summit	24.66	626.3	.....	.....	29.7	— 1.3	100	s.	.....	.....	8	.....	8	.....	s.	0.035	0.9	foggy	**M. Allnard, Director.**
Rochefort, Naval Obs'y	29.40	746.7	29.43	747 5	48.6	9.2	92	s.	.....	.....	2	.....	2.	.....	ssw.	0.16	4.	¼ covered	**Lt. E. Decante, Director.**
Roche-sur-Yon, N. School	29.20	741.6	29.42	747.2	37.4	3	93	ese.	.....	.....	1	.....	10	.....	.....	0.689	17.5	covered	**M. Brotier, Director.**
Rodez, Normal School	27.52	698.9	29.68	753.9	42.1	5.6	78	e.	.....	.....	3	.....	k	.....	e	0	0	.....	**M. Seger, Director.**
Rouen, Normal School	29.61	752.0	29.65	753.2	34.9	1.6	93	e.	.....	.....	2	.....	5	e.	.....	0	0	cloudy	**M. Moullot.**
Saint Lô	.....	.....	.....	.....	29.8	— 1.2	83	e.	.....	.....	1	.....	5	e.	.....	0	0	cloudy	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.50	749.2	29.66	753.4	36.0	2.2	63	ese.	.....	.....	2	.....	10	.....	.....	0	0	.....	**M. Renou, Director.**
Toulouse, Observatory	28 87	733.4	29.59	751.5	52.9	11.6	78	se.	.....	.....	3	.....	10	sw.	.....	0	0	covered	**M. Baillaud, Director.**
Tours	29.37	746.1	29.58	751.3	36.3	2.4	82	ne	.....	.....	1	.....	10	sw.	ese.	.....	.....	rain & sleet	**M. de Tastes.**
Versailles, Observatory	29.14	740.1	29.63	752.6	34.9	1.6	.....	se.	.....	.....	4	.....	.....	.....	.....	0.232	5.9	.....	**Dr. A. Bérigny, Director.**
Sub-series.																			
St. Martin du Hinx	29.37	745.9	29.52	749.7	57.7	14.3	55	s.	11.0	5.3	.....	0	4 k	.....	sw.	0	0	.....	**M. Cartier, Director.**
German.																			
Ansbach	28.54	724.8	30.07	763.7	27.3	— 2.6	52	e.	.....	.....	4	.....	0	.....	.....	0	0	.....	**Prof. Jnedt.**
Bamberg	29.13	740.0	29.98	761.4	32.5	0.3	50	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	**Prof. Dr. Hoh.**
Berlin	30.06	763.5	30.21	767.4	27.3	— 2.6	75	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	**Dr. Lensch.**
Breslau	29.65	753.2	30.19	766.8	26.2	— 3.2	59	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	**Royal University Obs'y.**
Carlsruhe	29.51	749.6	29.97	761 3	29.5	— 1.4	58	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	**Albert Senz.**
Cassel	29.30	744.2	30.02	762.4	33.1	0.6	57	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	**Dr. H. Möhl.**
Frankfort-on-the-Main	29.65	753.2	30.04	762.9	33.6	0.9	43	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	**Physical Society.**
Friedrichshafen	28.47	723.0	29.97	761.3	28.8	— 1.8	80	ne.	.....	.....	8	.....	3	e.	.....	0	0	.....	**Wilhelm, Chief Tel.**
Hamburg	30.12	765.0	30.21	767.3	24.4	— 4.2	100	e.	.....	.....	3	.....	10	.....	.....	0	0	foggy	**E. Preller.**
Kiel	30.19	766.8	30.21	767.2	30.4	— 0.9	93	ne.	.....	.....	3	.....	10	.....	.....	0	0	.....	**Prof. Dr. G. Karsten.**
Leipsic, Astrom'l Obs'y	29.72	754.9	30.17	766.2	28.0	— 2.2	79	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	**H. Leppig, Asst.**
Magdeburg	29.97	761.1	30.17	766.2	30.4	— 0.9	71	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	**Weather Observatory.**
Memel	29.92	760.0	29.97	761.2	35.4	1.9	93	nnw.	.....	.....	5	1 c	0	.....	.....	.....	.....	.....	**Issermann.**
Munich	28.10	713.8	29.96	761.0	25.7	— 3.5	66	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	**Central Station.**
Neufahrwasser	30.05	763.2	30.06	763.6	35.6	2.0	93	w.	.....	.....	3	.....	10	nw.	.....	0.008	0.2	.....	**A. Lothes.**
Neustadt, Palatinate	29.43	747.6	29.96	760.9	29.5	— 1.4	72	ne.	.....	.....	1	.....	0	.....	.....	c	0	.....	**Dicknether.**
Stuttgart	28.99	736.3	29.93	760.2	28.4	— 2.0	70	ne.	.....	.....	1	.....	0	.....	.....	0	0	foggy	**Prof. Dr. Schoder.**
Wustrow	30.19	766.9	30.22	767.5	31.6	— 0.2	96	n.	.....	.....	2	.....	10	.....	.....	0	0	.....	**Profs. Brandes & Reimer.**
Greek.																			
Athens	29.69	754.0	30.08	764.0	56.5	13.6	.....	sw.	.....	.....	1.5	0	8 k	.....	.....	0.114	2.9	.....	**Schmidt & Wourlisch.**
Indian.																			
Kurrachee	30.07	763.8	30.12	765.1	75.7	24.3	53	sw.	15.0	6.7	.....	.....	2	.....	.....	0	0	d. clouds	
Deesa	29.51	749.6	29.99	761.8	76.8	24.9	24	nnw.	16.0	7.2	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.94	760.4	29.98	761.4	78.7	25.9	60	nnw.	20.0	8.9	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.08	713.4	29.91	760.5	80.4	26.9	28	ese.	4.0	1.8	.....	.....	1	w.	.....	0	0	d. clouds	
Belgaum	27.41	696.1	29.94	760.3	79.6	26.4	38	se.	3.0	1.3	.....	.....	3	s.	.....	0	0	d. clouds	
Lahore	29.36	745.7	30.15	765.7	56.6	13.7	87	w.	2.0	0.9	.....	.....	10	.....	w.	0	0	thunder	
Roorkee	29.13	739.9	30.06	763.6	64.8	18.2	63	calm	0	0	.....	.....	10	s.	.....	0	0	.....	
Agra	29.46	748 2	30.04	762.9	71.7	22.1	48	e.	6.0	2.7	.....	.....	3	.....	e.	0	0	d. clouds	
Nagpur	28.95	735.3	30.00	762.1	77.7	25.4	41	ssw.	5.0	2.2	.....	.....	2	w.	.....	0	0	d. clouds	
Jubbulpore	28.61	726.7	29.99	761.7	74.4	23.6	50	calm	2.0	0.9	.....	.....	4	.....	sw.	0.03	0.8	d. clouds	
Lucknow	29.67	753.6	30.07	763.7	60.3	15.7	91	se.	0.5	0.2	.....	.....	2	.....	.....	0	0	d. clouds	
Allahabad	29.76	755.9	30.09	764.3	58.7	14.8	98	e.	2.0	0.9	.....	.....	10	.....	.....	1.23	31.2	raining	
Patna	29.96	760.9	30.15	765.8	62.6	17.0	96	e.	4.6	2.1	.....	.....	10	e.	e.	0.59	15.0	thund'rstorm	
Hazaribagh	28.02	711.6	30.09	764.3	65.8	18.8	69	calm	3.3	1.5	.....	.....	10	.....	.....	0	0	thunder	
Cuttack	29.97	761.2	30.05	763.3	76.1	24.5	63	ese.	1.0	0.4	.....	.....	2	.....	.....	0	0	d. clouds	
Calcutta, Allpore	30.06	763.5	30.08	764.1	68.3	20.2	73	s.	1.0	0.4	.....	.....	1	.....	.....	0	0	d. clouds	
Dhubri	29.98	761.6	30.11	764 8	66.8	19.3	77	e.	5.2	2.3	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	30.00	762.0	30.09	764.4	68.6	20.3	75	wsw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.80	756 9	30.16	766.0	59.7	15.4	85	ne.	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar	29.82	757.5	29.85	758.1	86.6	30.3	60	nne.	9.2	4.1	.....	.....	3	.....	nne.	0	0	d. clouds	
Jeypore	28.55	725 2	30.03	762.8	69.9	21.1	51	se.	7.2	3.2	.....	.....	4	.....	se.	0	0	d. cloudy	
Bellary	28.48	723.4	.....	.....	79.3	26.3	43	se.	4	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.74	755.4	.....	.....	79.4	26.3	60	ene.	1	0.4	.....	.....	5	.....	.....	0	0	d. clouds	

STATIONS.	Barometer: Corrected for instrumental error and for temperature. Inch.	Barometer: Corrected for instrumental error and for temperature. Mill.	Barometer: Reduced to sea-level. Inch.	Barometer: Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.74	755.5	30.17	766.4	35.4	1.9	46	s.	3.8	1.7			0			0	0		Prof. Giovanni Clodig.
Milan	29.69	754.0	30.23	767.8	34 5	1.4	50	w.	1.8	0.8			10	w.		0	0		Prof. Schiaparelli.
Padua	30.07	763.7	30.18	766.6	34.7	1.5	72	nne.	7.4	3.3			6	nw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.27	743.5	30.22	767.5	35.6	2.0	84	ene.	1.8	0.8			8			0	0		Prof. F. F. Denza.
Genoa	29.92	760.0	30.12	765.0	35.6	2.0	63	ne.	8.7	3.9			10	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.21	716.5	30.21	767.3	31.1	— 0.5	72	w.			2		10			0	0		Prof. D. C. Bruno.
Pesaro	30.10	764.4	30.15	765.7	34.5	1.4	90	nnw.	0	0			10			0	0		Prof. Luigi Guidi.
Florence	29.85	758.2	30.11	764.9	38.3	3.5	57	ne.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	29.95	760.7	30.04	762.9	40.1	4.5	64	ene.	11.2	5.0			10			0	0		Prof. P. Monte.
Rome	29.90	759 4	30.08	763.9	43.5	6.4	80	n.	0	0			10			0.071	1.8		Prof. P. Tachini.
Lecce	29.87	758.7	30.13	765.3	51.4	10.8	65	wnw	4.9	2.2			6			0.157	4.0		Prof. C. de Giorgi.
Cosenza	29.20	741.6	30.11	764.8	51.4	10.8	75	ssw.	3.1	1.4			9	sw.		0	0		Prof. D. Conti.
Cagliari	29.70	754.4	29.90	759.4	56.8	13.8	76	nw.			2		10			0	0		Prof. A. Pacinotti.
Palermo	29.73	755.2	29.98	761.6	59.4	15.2	60	calm	0	0			10			0	0		Prof. G. Cacciatore.
Syracuse	30.01	762.2	30.05	763.3	58.3	14.6	78	wsw.	2.5	1.1			10	sw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.55	750.5	30.08	764.1	50.0	10.0	73	n.	2.5	1.1			10	nnw.		0.270	7.0		Prof. F. Brioschi.
Stelvio	21.95	557.5			11.8	—11.2	51	sw.			2		3			0	0	misty	Prof. P. F. Denza.
Valdobbia	21.90	557.9			16.0	— 8.9	67	nw.			2		10			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.13	765 4	30.16	766.2	34.0	1.1	73	calm			0	0	1 ck		w.	0.374	9.5	clear	Hattori.
Awomori	30.08	764.1	30.12	765.1	27.5	— 2.5	74	w.	10.1	4.5		0	7 s;ks			0.025	0.6	overcast	K. Ogawa.
Hakodate	30.06	763.5	30.07	763 8	32.0	0.0	88	w.	10.8	4.8			10			0.475	12.1	overcast	
Hamamatsu	30.18	766.6	30.21	767.3	37.9	3.3	77	calm			0	0	0			0.059	1.5	clear	
Kagoshima	30.27	768.8	30.28	769.1	42.4	5.8	82	n.			2	0	5 s			0.043	1.1	fair	G. Miyanohaza.
Kioto	30.05	763.3	30.24	768.0	30.8	— 0.7	88	nnw.	1.0	0.4		0	0			0	0	clear	M. Tojima.
Kochi	30.23	767.8	30.25	768.3	40.1	4.5	79	ese.	3.9	1.7		0	0			0	0	clear	K. Kusunose.
Miasaka	30.23	767.8	30.26	768.5	48.9	9.4	60	w.			4	0	1 s		w.	0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.05	763.2	30.26	768.5	47.5	8.6	68	sw.	1.8	0.8		0	8 s			0.200	5.1	cloudy	S. Takehayashi.
Niigata	30.13	765.3	30.17	766.3	44.4	1.3	87	se.	3.2	1.4		0	2 ck		w.	0	0	fair	M. Morita.
Nobiru	30.10	766.1	30.18	766.5	28.1	— 2.2	97	w.	2.9	1.3		0	1 s			0	0	clear	H. Midzushima.
Numazu	30.15	765.9	30.19	766.8	37.5	3.1	87	e.			2	0	0			0	0	clear	R. Kaneda.
Sakai	30.15	765.9	30.17	766.2	38.0	3.3	89	wsw.			2	0	10			0.043	1.1	clear	K. Yamawchi.
Sapporo					24.6	— 4.1	57	sse.	8.0	3.6			10			0.205	6.7	covered	
Tokei Obs'y, Yeddo	30.11	764.8	30.19	766.8	42.2	5.7	68	se.	1.8	0.8			10 s;ks			0	0	overcast	The Staff.
Wakayama	30.16	766.1	30.22	767.5	36.8	2.7	82	ne.	4.2	1.9		0	0			0	0	clear	Y. Kuwamura.
Osaka	30.22	767.5	30.23	767.9	35.8	2.1	87	e.	4.7	2.1		0	0			0	0	clear	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.79	756.7	29.97	761.2	82.5	28.1	57	ne.	15.0	6.7		1 cs	4 k	sw.	ne.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Altata					46	7.8	85	nw.											H. Diaz Pena.
Guanajuato	23.70	602.0	29.92	760.0	49.3	9.6	79	n.	inap.	inap.		3 ck	0			inap.	inap.	fair	Prof. Vicente Fernandez.
Leon	24.41	720.0	30.33	770.4	41.0	5.0	84	calm			0	0	1 ck			0	0	foggy	Prof. M. Leal.
Mazatlan	29.74	755.3	30.00	762.0	67.5	19.7	35	nne.	1.0	0.8		1 cs	0			0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.09	586.5	30.26	768.5	46.4	8.0	81	calm	0	0		0	0			0	0	fine	The Staff.
Morelia	24.41	620.0	30.32	770.2	48.6	9.2	72	e.			1	0	0			0	0	clear	M. Tena, M. D.
Puebla, Catholic Institute	23.39	594.1	30.22	767.6	50.9	10.5		calm	0	0		0	9		se.	0	0	cloudy	Prof. P. Spina.
Zacatecas	22.52	571.9	30.39	771.9	31.7	— 0.2	59	nne.	9.7	4.3		4 ck	2 ks	w.	e.	0	0	½ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.86	758.4	29.86	758.4	34.7	1.5		e.			5					0	0		
Groningen	30.05	763 3	30.11	764.7	28.8	— 1.8		e.			3					0	0		
Helder																			
Hellevoetsluis	29.91	759.6	29.91	759.6	33.3	0.7	74	e.			4					0	0		
Utrecht	29.92	760.0	29.97	761.2	34.5	1.4	64	e.			4		0			0	0	clear	H. van der Brink
Sub-series.																			
Batavia, Java	29.92	760.0			77.9	25.5	92	nnw.	0	0			10.			0.87	22.		Dr. I. P. van der Stok.
NORWEGIAN.																0	0		
Bergen	30.19	766.9	30.26	768.5	30.9	— 0.6	88	ssw.	2	1			1			blank	blank		
Brono	30.04	763.0	30.08	764.0	37.0	3.1	87	calm	0	0			10			0	0	foggy	
Christiania	30.04	763.1	30.20	767.1	18.1	— 7.7	100	sw.	0	0			10						
Gjesvær	29.85	758.3	29.88	758.9	30.2	— 1.0		nw.			2		8						
Lodingen	30.02	762.4	30.06	763.0	29.1	— 1.6	78	n.			1		2			0.004	0.1		
PORTUGUESE.																			
Angra, Azores	29.02	752.4	29.78	756.5	53.6	12.0	72	wnw.	15.4	6.9			5			0.291	7.4		Dr. J. A. Sampaio.
Campo Major	29.01	730.8	29.63	752.6	50.9	10.5	93	ssw.	9.4	4.2			10			0.519	13.1		Dr. A. M. R. dos Santos.
Funchal, Madeira	29.71	754.7	29.80	756.9	62.1	16.7	73	wnw.	5.6	2.5			10			0.138	3.5		Capt. D. A. da Cunha.
Lisbon, Observatory	29.25	742.9	29.61	752.1	52.3	11.3	75	sw.	18.1	8.1			10			1.110	28.2		The Staff.
Ponta Delgada, Azores	29.77	756.2	29.84	758.0	54.3	12.4	57	nw.	8.7	3.9			4			0.051	1.3		
Saint Paul de Loando	29.72	755 0	29 92	760 0	83.1	28.4	78	W.	0.7	0.3			0			0	0		
Serra da Estrella	24 78	629 3	29.59	751.6	32.0	0.0	92	sw.	25.5	11.4			9			1.913	48.6	foggy	
RUSSIAN.																			
Akmolinski	28.99	730.3	30.19	766.8	2.5	—16.4	75	sSW.	4	2		1 cs	0						Major K. Lasarew.
Archangel	29.80	758.4	29.88	758.9	—24.2	—31.2	76	e.	13	6		0	0			0	0		Capt. Sselliwerstow.
Ashurada	30.07	763.8	29.98	761.4	59.7	10.4	84	wsw.	4	2			10 kn			0	0		
Astrakhan	29.98	761.5	29.90	759.4	24.8	— 4.0	91	se.	9	4			10			0.008	0.2		Capt. Wisganow.
Baku	29.89	759.2	29.84	758.0	40.4	8.0	51	sw.	18	8		0	0			0	0		
Barnaul	29.87	758.6	30.44	773 1	— 5.1	—20.6	82	calm	0	0			0			0	0		Meteorological Obs'y.
Bielosersk	29.33	745.0	29.87	758.8	—24.2	—31.2	82	ese.	2	1		10 c	0			0	0		
Dorpat	29.44	747.7	29.69	754.2	20.1	— 3.3	94	n.	0	4			10 ks			0.012	0.3		Observatory.
Ekaterinburg	29.17	740 9	30.25	768 3	— 0.4	—18.0	78	W.	18	8		0	0			inap.	inap.		Meteorological Obs'y.
Elissawetgrad	29.47	748.5	29.90	761.0	9.7	—12.4	92	s.	4	2			10 n			0.008	0.2		
Irkutsk	28.45	722.6	30.24	768.0	10.2	—12.1	90	calm			0		10			0.004	0.1		
Kasan	29.04	752.8	29.93	760.3	6.6	—14.1	78	se.	20	9			10			0.012	0.3		Observatory.
Kem	29.03	752.6	29.68	753.9	5.7	—14.6	91	e.	4	2			10			0	0	heavy cld's	
Kertch	30.08	764 0	30.10	764.5	15.8	— 9.0	85	nw.	7	3		0	5 k			0	0		Lagorio & Sustyrez.
Kieff	29.00	736.6	29.67	753.0	21.9	— 5.6	98	W.	11	5			10 ks;n			0.157	4.0		Observatory.
Koslov	29.13	739 9	29.73	755.2	—10.8	—27.1	88	calm	0	0		0	0			0	0		
Libau	29.91	759.8	29.94	760.4	35.9	2.0	89	nw.	13	6			1			0.012	0.3		E. Quaas.
Lugan	29.69	754.1	29.90	759 4	— 7.1	—21.7	93	wsw.	18	8			0			0.047	1.2		Meteorological Obs'y.
Moscow	29.21	741 8	29.77	750.1	—19.7	—28.7	79	nW.	2.2	1.0			10 n			0	0	light snow	
Nikolaiev	29.95	760.6	30.02	762.5	14.7	— 9.6	81	ne.	9	4			10 n			0.043	1.1		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.65	753.1	29.74	755.3	— 8.3	—22.4	76	calm	0	0			0			0	0		Iwanow.
Pekin, China	30.23	767.8	30.37	771.4	32.4	0.2	25	nW.	16	7		0	0			0	0		Physical Observatory.
Petrozavodsk	29.44	747.8	29.66	753.3	— 0.4	—18.0	78	s.	11	5			10			0.079	2.0	light clouds	Dr. Bergmann.
Pinsk	29.20	743.3	29.78	750.4	32.9	0.5	96	nW.	45	20			10 n			0.039	1.0	snowing	
Poti	30.17	766.4	30.19	766 9	31.8	— 0.1	96	e.	4	2			10 n					snowing	
St. Petersburg	29.62	752 3	29.63	752.7	1.9	—16.7	95	se.	9	4			10 n			0.122	3.1		Central Physical Obs'y.
Samarkand																			
Sevastopol	29.80	758 5	30.03	762.7	30.4	— 0.9	74	ne.	7	3			10 n			0.004	0.1		
Semipalatinsk	29.03	752.0	30.34	770.7	8.0	—13.0	80	e.	10	7			2			0	0		Major Lasarew.
Staroi Bykhov	29.18	741.2	29.68	753.9	5.7	—14.6	74	se.	7	3			10			0.035	0.9	light snow	
Tiflis	28.67	728.1	30.15	765.7	30.5	2.5	44	nW.	27	12			0			0	0		Physical Observatory
Tomsk	30.10	764.6	30.41	772.5	3.0	—15.8	84	calm	0	0			3 8						
Viatka	29.33	744 9	30.04	763.0	— 7.0	—22.0		ese.	4	2			8			0	0		
Warsaw	29.61	752.0	30.05	763.3	28.9	— 1.7	94	nW.	22	10			10			0.012	0.3	heavy cl'ds.	Astronomical Obs'y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Wilna	29.32	744 8	29.76	755.8	33.4	0.8	85	nw.	9	4	.....	.....	6	.....	.....	0	0	heavy clouds	Berg, Assistant.
Yeniseisk	30.20	767.0	30.53	775.4	— 7.4	—21.9	77	w.	2	1	.....	.....	0	.....	.....	0.020	0.5	.....	M. O. Marks.
Scottish.																			
Monach Lt	.....	.....	30.03	762.7	42	5.6	91	e.	.....	.....	4	5	5	e.	.....	0	0	.....	J. Youngclause.
North Unst	.....	.....	30.30	769.6	.....	.....	.....	s.	.....	.....	4	.....	5	.....	.....	.....	.....	hazy.	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.62	752.3	29.72	755.0	54.1	12.3	90	w.	2.0	1.0	.....	.....	10	.....	.....	0.437	11.1	foggy	Antonio Reve, Director.
Bilbao, Met. Obs'y	29.50	749.2	29.56	750.7	58.5	14.7	55	se.	10.7	4.8	.....	3	2	sw.	.....	0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.59	675.5	29.60	751.8	41.4	5.2	85	s.	12.9	5.7	.....	.....	9	.....	.....	0.217	5.5	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.41	696.2	29.65	753.1	47.8	8.8	78	sw.	15.0	6.7	.....	.....	10	.....	.....	0.831	21.1	rainy	The Staff.
Murcia, Met. Obs'y	29.61	752.2	29.76	756.0	59.0	15.0	89	wnw.	1.8	0.8	.....	5	5	ese.	.....	0	0	foggy	Olayo Diaz, Director.
Oviedo	28.49	723 6	29.37	746.0	50.0	10.0	88	se.	17.9	8.0	.....	2 k	3 k	ne.	nw.	0	0	.....	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.38	720.8	29.27	743.4	45.9	7.7	90	s.	21.0	9.4	.....	.....	10	.....	.....	0.756	19.2	covered	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.99	761.8	30.05	763.2	78.7	25.9	90	n.	2.5	1.1	.....	0	6	.....	.....	0.110	2.8	clear..	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.70	754.4	29.80	756.9	54.9	12.7	82	sw.	5.4	2.4	.....	.....	10	.....	s.	3.052	77.5	raining.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I.	30.05	763.3	30.14	765.6	80.2	26.8	77	calm	0	0	.....	3 cs	4 k.	se.	se.	0	0	d. clouds....	Manuel Maese.
Swedish.																			
Hapsaranda	29.84	757.8	29.87	758.8	21.0	— 6.2	79	nw.	.....	.....	2	.....	2	.....	.....	0	0	.....	
Umea	29.92	760.0	29.97	761.3	24.1	— 4.4	81	n.	.....	.....	2	.....	5	.....	.....	0	0	.....	
Hernosand	29.97	761.1	30.02	762.4	37.4	3.0	83	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	
Stockholm	29.82	757.5	30.00	762.0	36.0	2.2	75	wnw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Wisby	29.95	760.8	30.01	762.3	37.8	3.2	83	nnw.	.....	.....	6	.....	5	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.91	759.6	29.99	761.8	35.1	1.7	89	wnw.	5.1	2.3	.....	.....	9	nw.	n.	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	28.45	722.5	29.95	760.8	28.8	— 1.8	96	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	snowing.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.19	766.7	33.6	0.9	92	n.	4	2.0	.....	.....	10	.....	n.	0.083	2.1	snowing.....	The Observatory.
Valona	.....	.....	30.12	765.1	54.0	12.2	.....	n.	.....	.....	1	.....	5	.....	.....	0.59	15.	cloudy..	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.21	767.2	59.9	15.5	60	n.	.....	.....	1	10 cs	0	.....	.....	0.05	1.3	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.74	679.2	.....	.....	32	0.0	80	nw.	.....	.....	1	.....	10 n	.....	.....	0.02	0.5	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.95	760.7	30.04	763.0	19	— 7.2	76	n.	4	1.8	.....	3 c	2 s	nw.	nw.	0.09	2.3	fair.....	J. C. Barnes.
Alpena, Michigan	29.41	747.0	30.12	765.0	5	—15.0	76	w.	4	1.8	.....	8 k	2 s	w.	.....	0	0	cloudy.....	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.28	642.1	30.40	772.1	19	— 7.2	73	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	W. C. Barnes.
Assiniaboine, Ft., Montana	27.02	686.3	30.06	763.5	39	3.9	95	w.	40	17.9	.....	0	2 s	.....	w.	0	0	clear..	B. O. Lenoir.
Atlanta, Georgia	28.62	726.9	29.85	758 2	41.5	5.3	92	nw.	10	4.5	.....	.....	10 n	.....	nw.	0.04	1.0	light rain....	H. C. Smith.
Atlantic City, New Jersey..	29.99	761.7	30.00	762.0	27	— 2.8	77	n.	13	5.8	.....	.....	10 s	.....	.....	0	0	cloudy.....	Jas. M. Watson.
Augusta, Georgia	29.67	753.6	29.87	758.7	51	10.6	93	nw.	1	0.4	.....	.....	10 n	.....	.....	0.03	0.8	light rain....	John Healy.
Baltimore, Maryland	30.03	762.7	30.08	764.0	28	— 2.2	77	n.	8	3.6	.....	.....	10 s	.....	w.	0	0	cloudy	Geo W Felger.
Barnegat, New Jersey	29.97	761.2	29.99	761.7	28.0	— 2.2	86	n.	18	8.0	.....	.....	10 s	.....	.....	0	0	cloudy.....	G. A. Hill.
Behring Id., Behring Sea	29.30	744.2	29.32	744.7	21.3	— 5.9	.....	se.	5	2.2	.....	0	9 n	.....	.....	0.08	2.0	cloudy.....	Leonard Steineger.
Bennett, Fort, Dakota	28.03	711.9	29.77	756.1	16	— 8.9	83	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy.....	A. Pritchard.
Benton, Fort, Montana	27.16	689.9	30.14	765.5	40	4.4	67	sw.	24	10.7	.....	0	1 s	.....	.....	0	0	clear.....	S. Wheaton.
Billings, Montana	26.67	677.4	.....	.....	42	5.6	.....	w.	24	10.7	.....	0	3 s	.....	.....	0	0	clear	T. Gibson.
Bismarck, Dakota	29.69	754.1	29.68	753.9	38	3.3	72	nw.	21	9.4	.....	.....	10 s	.....	.....	0	0	cloudy.....	Cyrus Cramer.
Block Island, Rhode Island	29.90	759.4	29.93	760.2	28	— 2.2	77	n.	15	6.7	.....	.....	10 s	.....	n.	0	0	cloudy.....	J. T. Elker.
Boise City, Idaho	27.67	702.8	30.60	777.2	19	— 7.2	87	n.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	B. E. Light.
Boston, Massachusetts	29.81	757.2	29.98	761.5	26.0	— 3.3	64	nw.	10	4.5	.....	10c;cs	0	w.	.....	0	0	cloudy.....	O. B. Cole.
Brownsville, Texas	30.37	771.4	30.42	772.7	31.0	— 0.6	68	n.	6	2.7	.....	0	0	.....	.....	0.05	1.3	clear.....	M. McCarty.
Buffalo, New York	29.34	745.2	30.14	765.5	17	— 8.3	86	ne.	5	2.2	.....	.....	10 n	.....	sw.	0.03	0.8	light snow...	W. Finn.
Buford, Fort, Dakota	27.42	696.5	29.62	752.3	38	3.3	100	nw.	27	12.1	.....	.....	10 n	.....	.....	inap.	inap.	light rain....	F. A. Mellen.
Burlington, Vermont	29.76	755.9	30.07	763.8	8.6	—13.1	93	n.	15	6.7	.....	.....	10 n	.....	n.	0.05	1.3	light snow..	G. C. Schaeffer.
Cairo, Illinois	29.80	756.9	30.22	767.6	10.0	—12.2	80	n.	9	4.0	.....	0	2 s	.....	n.	0.01	0.3	clear.....	W. H. Ray.
Cape Henry, Virginia	29.96	761.0	29.98	761.5	36	2.2	79	n.	12	5.4	.....	.....	10 ks	.....	.....	0	0	cloudy.....	A. K. Alderson.
Cape May, New Jersey	30.02	762.5	30.05	763.3	30.0	— 1.1	88	nw.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy.....	W. E. Smith.
Cape Mendocino, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. J. McLean.
Cedar Keys, Florida	29.70	754.4	29.72	754.9	62	16.7	100	e.	8	3.6	.....	.....	10 n	.....	.....	0.48	12.2	light rain ...	F. W. Mixer.
Champaign, Illinois	29.32	744.7	30.19	766.8	— 6.0	—21.1	61	nw.	6	2.7	.....	0	3 s	.....	nw.	0.03	0.8	clear.....	L. A. Welsh.
Charleston, S. Carolina	29.75	755.6	29.81	757.2	52	11.1	100	ne.	12	5.4	.....	.....	fg.	.....	.....	0.05	1.3	dense fog....	J. H. Smith.
Charlotte, N. Carolina	29.01	736.8	29.90	759.4	41.0	5.0	82	ne.	7	3.1	.....	.....	10 s	.....	ne.	0	0	cloudy.....	D. O'Donoghue.
Chattanooga, Tennessee	29.08	738.6	29.94	760.5	35.9	1.7	79	nw.	10	4.5	.....	.....	10 n	.....	nw.	0.04	1.0	light snow..	B. L. Goulding.
Cheyenne, Wyoming	23.91	607.3	30.16	766.1	34.9	1.6	37	nw.	36	16.1	.....	.....	10 s	.....	.....	0	0	cloudy.....	E. McGovern.
Chicago, Illinois	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. Mitchell.
Chincoteague, Virginia	29.95	760.7	29.97	761.2	32	0.0	88	n.	22	9.8	.....	.....	10s;fg	.....	w.	0.01	0.3	cloudy.....	C. F. Dickens.
Cincinnati, Ohio	29.49	748.3	30.14	765.5	20	— 6.7	70	n.	8	3.6	.....	.....	10 n	.....	n.	0.04	1.0	light snow..	R. B. Watkins.
Cleveland, Ohio	29.37	746.0	30.15	765.8	12.8	—10.7	89	s.	3	1.3	.....	.....	10s;fg	.....	.....	0.02	0.5	cloudy.....	J. B. Newlin.
Coleman City, Texas	28.36	720.3	30.24	768.1	28	— 2.2	88	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	L. Dorman.
Columbus, Ohio	29.23	742.4	30.13	765.3	15	— 9.4	67	n.	4	1.8	.....	0	4 s	.....	.....	0.03	0.8	fair.....	D. Cuthbertson.
Concho, Fort, Texas	28.27	718.0	30.29	769.4	22.4	— 5.3	73	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	J. McGlone.
Davenport, Iowa	29.48	748.8	30.20	767.1	—13	—25.0	47	nw.	1	0.4	.....	1 cs	0	w.	.....	0	0	clear.....	W. B. Lamar.
Davis, Fort, Texas	25.36	644 1	30.34	770.6	24	— 4.4	67	sw.	4	1.8	.....	0	0	.....	.....	0.02	0.5	clear.....	J. Williams.
Dayton, Washington T'y	28.66	728.0	30.46	773.7	40	4.4	82	s.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy.....	D. Moore.
Deadwood, Dakota	25.09	637.3	30.03	762.7	44	6.7	71	sw.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy.....	F. Willson.
Delaware Breakwater, Del	29.98	761.5	30.00	762.0	31	— 0.6	88	n.	25	11.2	.....	.....	10 s	.....	n.	0	0	cloudy.....	T. S. Townsend.
Denison, Texas	29.41	747.0	30.25	768.3	20.0	— 6.7	84	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	J. W. Byram.
Denver, Colorado	24.68	626.9	30.20	767.1	46.0	7.8	39	w.	12	5.4	.....	0	4 s	.....	w.	0	0	fair.....	F. M. Neal.
Des Moines, Iowa	29.17	740.9	30.14	765.5	—13	—25.0	47	sw.	1	0.4	.....	0	sk.	.....	.....	0	0	clear.....	F. W. Conrad.
Detroit, Michigan	29.41	747.0	30.17	766.3	11.0	—11.7	91	nw.	4	1.8	.....	0	0	.....	.....	0.09	2.3	clear.....	C. F. R. Wappenhans.
Dodge City, Kansas	27.37	695.2	30.12	765.0	19	— 7.2	87	sw.	4	1.8	.....	.....	9 s	.....	w.	0	0	cloudy.....	V. P. Temple.
Dubuque, Iowa	29.42	747.3	30.18	766.6	—19.3	—28.5	66	calm	0	0	.....	0	fg.	.....	.....	0	0	clear.....	J. Harvey Smith.
Duluth, Minnesota	29.07	738.4	29.88	758.9	— 1	—18.3	68	sw.	3	1.3	.....	0	5 s	.....	sw.	0	0	fair.....	N. B. Conger.
Eagle Pass, Texas	29.58	751.3	30.42	772.7	27.0	— 2.8	54	sw.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear.....	F. Belford.
Eagle Rock, Idaho	25.61	650.5	30.57	776.5	4	—15.6	79	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	J. M. Clifford.
Eastport, Maine	29.87	758.7	29.94	760.5	18.5	— 7.5	75	ne.	13	5.8	.....	3 cs	2 s	w.	ne.	0.23	5.8	fair.....	D. C. Murphy.
Elliott, Fort, Texas	27.32	693.9	30.26	768.6	18	— 7.8	58	sw.	4	1.8	.....	.....	10 s	.....	sw.	0	0	cloudy.....	W. J. Gundall.
El Paso, Texas	26.53	673.8	30.41	772.4	27.0	— 2.8	67	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	J. O'Dowd.
Erie, Pennsylvania	29.36	745.7	30.13	765.3	23	— 5.0	88	ne.	3	1.3	.....	.....	10 s	.....	.....	0.02	0.5	cloudy.....	Peter Wood.
Escanaba, Michigan	29.37	746.0	30.09	764.3	— 6.0	—21.1	78	s.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	George Heathcote.
Fredericksburg, Texas	28.45	722.6	30.27	768.8	32	0.0	88	nw.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear.....	Frank Halwegler.
Galveston, Texas	30.20	763.6	30.31	769.9	32	0.0	85	n.	17	7.6	.....	0	0	.....	.....	0	0	clear.....	E. O'C. MacInerney.
Grand Haven, Michigan	29.42	747.3	30.13	765.3	14.0	—10.0	80	se.	6	2.7	.....	.....	10 s	se.	inap.	inap.	inap.	cloudy.....	J. E. Mueller.
Grant, Fort, Arizona	25.45	646.4	30.35	770.9	30	— 1.1	71	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	Robert C. Lord.
Hatteras, North Carolina	29.89	759 2	29.91	759.7	44	6.7	93	ne.	24	10.7	.....	.....	10 s	.....	ne.	0.21	5.3	threatening.	R. M. Crawford.
Helena, Montana	25.91	658.1	30.34	770.6	42	5.6	92	sw.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy.....	N. C. Smith.
Henrietta, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. P. Sherry.
Huron, Dakota	28.24	717.3	29.78	756.4	19	— 7.2	64	se.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy.....	S. W. Glenn
Indianapolis, Indiana	29.30	744.2	30.14	765.5	11	—11.7	70	n.	2	0.9	.....	0	4 s	.....	n.	0.01	0.3	fair.....	J. F. Jirdinston.
Indianola, Texas	30.38	771.6	30.42	772.7	26.8	— 2.9	80	n.	9	4.0	.....	0	0	.....	.....	inap.	inap.	clear.....	I. A. Reed.
Jacksboro, Texas	29.12	739.6	30.36	771.1	22	— 5.6	44	w.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	D. J. Carr.
Jacksonville, Florida	29.73	755.1	29.78	756.4	63	17.2	97	calm	0	0	.....	.....	10 n	.....	.....	0.08	2.0	light rain....	J. W. Smith.
Keogh, Fort, Montana	27.25	692.1	29.94	760.5	42	5.6	76	w.	26	11.6	.....	0	0 s	.....	w.	0	0	fair.....	A. Schneider.
Keokuk, Iowa	29.52	749.8	30.22	767.6	— 8.0	—22.2	58	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	F. Z. Gosewisch.

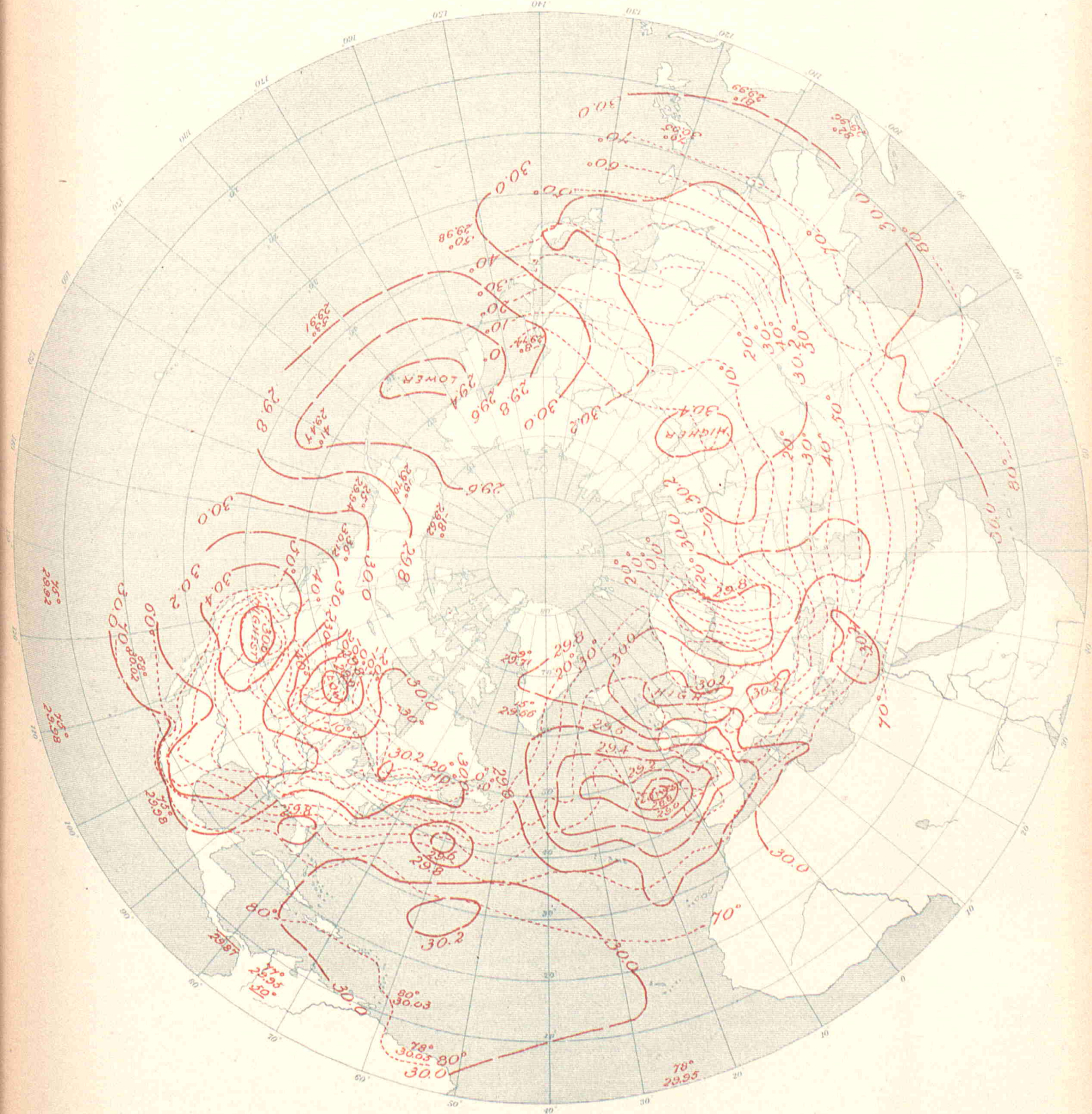
STATIONS	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Key West, Florida	29.86	758.4	29.88	758.9	76.0	24.4	90	s.	18	8.0			10 ks		s.	0.01	0.3	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	29.82	760.0	29.94	760.5	40	4.4	86	ne.	24	10.7			10 ks		ne.	0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	28.86	733.0	29.94	760.5	30.8	— 0.7	100	n.	6	2.7			10 n			0.09	2.3	light snow	J. A. Cody.
La Crosse, Wisconsin	29.24	742.7	30.08	764.0	—13	—25.0	100	s.	8	3.6		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.27	743.4	30.23	767.8	2	—16.7	72	s.	4	1.8		0	0			inap.	inap.	clear	A. W. Brown.
Lewiston, Idaho	29.62	752.3	30.49	774.4	37.0	2.8	85	e.	3	1.3			10 n			inap.	inap.	light rain	W. Bell.
Little Rock, Arkansas	29.90	759.4	30.23	767.8	20	— 6.7	70	n.	6	2.7		0	0			inap.	inap.	clear	W. U. Simons.
Los Angeles, California	29.99	761.7	30.39	771.9	48	8.9	63	ne.	10	4.5		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.50	749.3	30.09	764.3	18	— 7.8	67	n.	10	4.5		0	3 s			inap.	inap.	clear	L. M. Dey.
Lynchburg, Virginia	29.26	743.2	29.98	761.5	36	2.2	75	ne.	5	2.2			10 s			0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.36	745.7	30.06	763.5	14.0	—10.0	64	sw.	4	1.8		8 k	0	sw.		inap.	inap.	cloudy	F. R. Day.
Macon, Fort, North Carolina	29.87	758.7	29.88	758.9	42.0	5.6	92	ne.	20	8.9			10 k		ne.	0	0	cloudy	William Daly.
Madison, Wisconsin	29.06	738.1	30.15	765.8	— 7	—21.7	58	s.	4	1.8		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.58	649.7	30.13	765.3	40	4.4	50	w.	36	16.1			10 s		w.	0	0	cloudy	F. Burke.
McKavett, Fort, Texas	27.91	708.9	30.36	769.6	21	— 6.1	73	calm	0	0		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.22	742.2	30.00	762.0	2	—16.7	72	w.	4	1.8		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.82	757.4	30.18	766.6	16	— 8.9	83	nw.	18	8.0		0	0			0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.35	745.5	30.15	765.8	— 7	—21.7	100	w.	7	3.1			10 s			0.03	0.8	threatening	W Line
Missoula, Fort, Montana	26.99	685.5	30.45	773.4	39	3.9	82	ne.	4	1.8			10 s			0	0	threatening	I. H. Young.
Mobile, Alabama	29.90	759.4	29.94	760.5	34.5	1.4	89	nw.	12	5.4			10 s			0	0	light rain	C. A. Read.
Montgomery, Alabama	29.65	753.1	29.89	759.2	36	2.2	89	nw.	12	5.4			10 n		nw.	0.33	8.4	light rain	J. B. McLaughlin
Moorhead, Minnesota	28.55	725.2	29.66	753.4	10	—12.2	100	s.	28	12.5			10 s		nw.	0.25	0.3	light rain	H. Bessant.
Morgantown, W. Virginia	29.06	738.1	30.12	765.0	24.5	— 4.2	72	ne.	4	1.8			10 s		s.	0	0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.29	591.6	29.92	760.0	— 5.0	—20.6	68	nw.	36	16.1			10 s			0.04	1.0	cloudy	S. W. Beall.
Nashville, Tennessee	29.45	748.0	30.06	763.5	26.0	— 3.3	88	nw.	13	5.8			fg.		nw.	0.06	1.5	light fog	S. W. Beall.
New Haven, Connecticut	29.85	758.2	29.97	761.2	22	— 5.6	80	ne.	7	3.1			10 n		nw.	0.13	3.3	light snow	L. N. Jesunofsky.
New London, Connecticut	29.90	759.4	29.95	760.7	25	— 3.9	64	n.	5	2.2			10 s			0.01	0.3	cloudy	J. H. Sherman.
New Orleans, Louisiana	30.00	762.0	30.06	763.5	37.0	2.8	72	nw.	20	8.9		10 ck	0	w.		0	0	cloudy	J. G. Lynch.
Newport, Rhode Island	29.90	759.4	29.95	760.7	24.4	— 4.2	90	nw.	11	4.9			10 s		nw	0.55	14.0	cloudy	L. Dunne.
New York, New York	29.84	757.9	30.03	762.7	26	— 3.3	88	nw.	1	0.4		5 cs	3 s	w.	nw.	0	0	cloudy	W. McGillivray.
Norfolk, Virginia	29.90	761.0	29.99	761.7	36	2.2	79	ne.	16	7.2			10 s			0.01	0.3	cloudy	J. B. Merrill.
North Platte, Nebraska	26.90	683.2	30.02	762.5	33.6	0.9	79	sw.	10	4.5		0	5 s		ne.	0.03	0.8	cloudy	Wm. Davis.
Olympia, Washington T'y	30.41	772.4	30.45	773.4	44.0	6.7	93	s.	5	2.2			10 n			0.32	8.1	fair	E. F. Brady.
Omaha, Nebraska	28.82	732.0	30.09	764.3	3.3	—15.9	93	s.	12	5.4		0	0			0	0	light rain	J. Dascomb
Ooglaamie, Alaska	29.60	751.8	29.62	752.3	—18.0	—27.8	100	w.	11	4.9		hz.	9 s			inap.	inap.	clear	A. Pollak.
Oswego, New York	29.78	756.4	30.12	765.0	13.0	—10.6	80	ne.	11	4.9			10 s		ne.	0.04	1.0	cloudy	P. H. Ray.
Palestine, Texas	29.72	754.9	30.30	769.6	23.0	— 5.0	73	nw.	4	1.8		0	0			0	0	cloudy	J. G. Linsley.
Pensacola, Florida	29.84	757.9	29.87	758.7	38.1	3.4	85	n.	12	5.4			10 n		n.	0.38	9.7	clear	L. M. Pindell.
Philadelphia, Pa	29.93	760.2	30.04	763.0	25.5	— 3.6	75	nw.	9	4.0		0	5 s		sw.	0	0	light rain	M. McGauran.
Pike's Peak, Colorado	17.74	450.6	30.44	773.2	16	— 8.9	67	ne.			7	0	4 s			0	0	fair	T. T. Townsend.
Ploche, Nevada	24.37	619.0	30.57	776.5	23.5	— 4.7	50	w.	3	1.3		0	0			0	0	fair	H. Hall.
Pittsburg, Pennsylvania	29.26	743.2	30.11	764.8	22.0	— 5.6	88	n.	6	2.7			10 s			0	0	clear	C. N. Kitchel.
Poplar River, Montana	27.17	697.7	29.82	757.4				nw.			7	0	8 s		nw.	0.02	0.5	cloudy	W. A. Reid.
Port Eads, Louisiana	30.02	762.5	30.04	763.0	37.0	2.8	96	nw.	28	12.5			10 s		nw.	0	0	cloudy	W. D. Maxwell.
Port Huron, Michigan	29.44	747.8	30.17	766.3	2.7	—16.3	79	nw.	6	2.7		0	0			0.05	16.5	cloudy	H. B. Boyer.
Portland, Maine	29.91	759.7	29.96	761.0	14.0	—10.0	80	n.	11	4.9		0	0			0	0	clear	W. O. Bailey.
Portland, Oregon	30.43	772.9	30.50	774.7	41.0	5.0	86	calm	0	0		0	5 s		nw.	0.01	0.3	fair	W. W. Elchelberger.
Portsmouth, N. C.					44	6.7	100	ne.			7		10 s			0	0	cloudy	M. L. Hearne.
Prescott, Arizona	25.04	630.0	30.42	772.7	21.6	— 5.8	76	sw.	2	0.9		0	0		ne.	0.32	8.1	light rain	F. S. Coburn.
Provincetown, Mass	29.86	758.4	29.89	759.2	31.5	— 0.3	88	n.	19	8.5			10 n			0	0	clear	W. H. Clendenon.
Punta Rassa, Florida	29.80	756.9	29.81	757.2	70	21.1	94	s.	20	8.9		10 cs	fg.	sw.	n.	0.02	0.5	light snow	P. T. Jenkins.
Red Bluff, California	30.18	766.6	30.55	776.0	32	0.0	88	n.	3	1.3		0	0		s.	0.09	2.3	threatening	W. J. Evans.
Rochester, New York	29.42	747.3	30.13	765.3	18	— 7.8	67	nw.	6	2.7			10 k			0	0	clear	J. R. Williams.
Roseburg, Oregon	30.01	762.2	30.58	776.7	28.5	— 1.9	88	calm	0	0		0	0		nw.	0.04	1.0	cloudy	E. W. McGann
Sacramento, California	30.46	773.7	30.54	775.7	35.4	1.9	89	calm	0	0		0	0			0	0	clear	J. J. Nanry.
St. Louis, Missouri	29.63	752.6	30.27	768.8	0.6	—17.4	77	nw.	8	3.6		0	0			0	0	clear	J. A. Barwick.
St. Michael, Fort, Alaska	29.69	753.4	29.70	754.4	19	— 7.2	100	s.	7	3.1			10 s			0	0	clear	J. H. Weber.
St. Paul, Minnesota	28.99	736.3	29.91	760.5	6.0	—14.4	79	calm	0	0		3 cs	0			inap.	inap.	fair	A. P. Leavitt.
St. Vincent, Minnesota	28.41	721.0	29.39	746.5	10	—12.2	100	sw.	21	9.4			10 n			0	0	cloudy	P. F. Lyons.
Salt Lake City, Utah	26.09	662.7	30.06	763.7	20	— 6.7	46	calm	0	0		0	0			0	0	heavy snow	C. B. Dilley.
San Antonio, Texas	29.61	752.1	30.34	770.6	27.5	— 2.5	64	n.	3	1.3		0	0			0	0	clear	J. Craig.
San Diego, California	30.25	768.3	30.32	770.1	51.4	10.8	21	ne.	4	1.8		0	0			0	0	clear	T. J. Kenan.
Sandusky, Ohio	29.45	748.0	30.17	766.3	9.0	—12.8	69	nw.	6	2.7		0	0			0	0	clear	A. C. Dobbins.
Sandy Hook, New Jersey	30.00	762.0	30.03	762.7	26.0	— 3.3	77	n.	22	9.8		0 c	0			0.04	1.0	clear	M. H. Perry.
San Francisco, California	30.42	772.7	30.50	774.7	46	7.8	87	n.	4	1.8		0	fg.			0	0	fair	B. A. Blundon.
Santa Fé, New Mexico	23.32	592.3	30.37	771.4	12	—11.1	61	ne.	4	1.8		0	2 s			0	0	clear	N. Gorom.
Savannah, Georgia	29.69	754.1	29.79	756.7	58	14.4	87	ne.	5	2.2			10 n fg		ne.	0	0	clear	H. U. Jones.
Shaw, Fort, Montana	26.45	671.8	30.31	769.9	38	3.3	55	sw.	20	8.9		0	0		w.	0.15	3.8	light rain	H. W. Ford.
Shreveport, Louisiana	30.02	762.5	30.27	768.8	21	— 6.1	58	nw.	5	2.2		0	5 s			0	0	fair	A. L. Mathews.
Sill, Fort, Indian Territory	28.91	734.3	30.24	768.1	20.5	— 6.4	78	ne.	2	0.9		0	0			inap.	inap.	clear	E. N. Meekins.
Silver City, New Mexico	24.37	619.0	30.23	767.8	27.0	— 2.8	61	nw.	7	3.1		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	30.05	763.3	30.12	765.0	30.1	2.3	79	se.	4	1.8		0	0			0	0	clear	N. D. Lane.
Smith, Fort, Arkansas	29.76	755.9	30.26	768.6	11.0	—11.7	80	calm	0	0		0	0			0	0	cloudy	F. W. Fickett.
Smithville, North Carolina	29.82	757.4	29.86	758.4	47	8.3	93	ne.	14	6.3			10 n		se.	0	0	clear	J. B. Campbell.
Spokane Falls, Wash. Ter.	28.28	718.3	30.42	772.7	38.2	3.4	95	sw.	10	7.2			10 s			0.20	5.1	light rain	O. Parker.
Springfield, Illinois	29.52	749.8	30.25	768.3	0	—17.8	68	nw.	7	3.1		0	0			0	0	cloudy	H. Clifford.
Springfield, Missouri	28.69	728.7	30.21	767.3	7	—13.9	76	n.	2	0.9		0	0			inap.	inap.	clear	T. B. Jennings.
Starkville, Miss.	29.57	751.1	30.07	763.8	19	— 7.2	91	n.	14	6.3			10 s			0	0	clear	J. H. Bryce.
Stevenson, Fort, Dakota	27.00	701.0	29.66	753.4	37	2.8	82	w.	30	13.4			10 s		n.	0.07	1.8	cloudy	C. Dill.
Stockton, Fort, Texas	27.19	690.6	30.33	770.4	32	0.0	71	sw.	12	5.4		0	0			0	0	threatening	W. Burrows.
Thatcher's Island, Mass	29.90	759.4	29.90	761.0	26.0	— 3.3	77	nw.	22	9.8			10 s			0	0	clear	A. J. Warren.
Thomas, Camp, Arizona	27.56	700.0	30.39	771.9	26.5	— 3.1	82	calm				0	0		nw.	inap.	inap.	cloudy	G. Liebmann.
Toledo, Ohio	29.42	747.3	30.16	766.1	5	—15.0	76	calm	0	0			0			0	0	clear	J. T. Fitzgerald.
Tucson, Arizona	27.87	707.9	30.37	771.4	32	0.0	81	se.	3	1.3			0			0.01	0.3	clear	A. Buell.
Umatilla, Oregon	30.08	764.0	30.47	773.9	42	5.6	83	w.	6	2.7			0			0	0	clear	J. L. Whiteside
Verde, Fort, Arizona					24.6	— 4.1	42	nw.			1		0			0	0	clear	J. Daly.
Vicksburg, Mississippi	29.91	759.7	30.18	766.6	26.5	— 3.1	77	nw.	15	6.7			0			0	0	clear	D. Brooks.
Visalia, California	30.11	764.8	30.50	774.7	33.7	0.9	68	s.	4	1.8						inap	inap	clear	James Kenealy.
Washakie, Fort, Wyoming	24.50	622.3	30.30	769.6	35.3	1.8	68	sw.	9	4.0		0	fg.			0	0	dense fog	O. D. Stewart
Washington, D. C.	29.96	761.0	30.08	764.0	27.2	— 2.7	75	n.	8	3.6			3 s			0	0	clear	T. M. Ambler.
West Las Animas, Colorado	26.07	662.2	30.21	767.3	17	— 8.3	76	sw.	8	3.6		1 c	0		nw.	0	0	cloudy	B. M. Purssell.
Williamsport, Pa	29.46	748.3	30.09	764.3	23	— 5.0	73	w.	2	0.9			10 s			0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	29.82	757.4	29.88	758.9	40	7.8	100	e.	6	2.7			10 n			inap.	inap.	cloudy	B. F. Hough.
Winnemucca, Nevada	26.12	663.4	30.00	778.7	9	—12.8	69	ne.	6	2.7			0		e.	0.54	13.7	heavy rain	Samuel A. Haney.
Yankton, Dakota	28.42	721.9	29.84	757.9	15	— 9.4	67	sw	11	4.9		5 cs	0			0	0	clear	J. G. Grover.
Yuma, Arizona	30.22	767.6	30.37	771.4	48.6	9.2	27	n.	6	2.7			0			inap.	inap.	fair	J. H. Attfield.
Sub-series.																0	0	clear	W. S. Delano.
Bogota, U. S. Columbia	22.03	559.6			50.0	10.0	70	calm	0	0									
Kingston, Jamaica, W. I.	30.01	762.2	30.02	762.5	78	25.6	79	se.	4	1.8		1 c	1 ks	w.	w.	0.03	10.0	fair	Joaquin Gomez.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	86	e.			2	0	1 s			0	0	fair	Robert Johnston.
Puerto Berrio, U. S. Col'mbia	29.39	746.5	29.95	760.7	77	25.0	89	calm			0	4 e	5 k	0		0	0	fair	Dr. C. J. Hering.
Rivas, Nicaragua, C. A.													10 ks		calm	inap.	inap.	cloudy	Francisco J. Cisneros.
St. Paul, Kodiak Id., Alaska	29.88	758.9	29.94	760.5	25	— 3.9	88	calm			0		5 k						Earl Flint.
St. Thomas, W. I.																0	0	fair	W. J. Fisher.
York Factory, B. A.	30.02	762.5	30.09	764.3	—30.0	—37.8		s.	6	2.7		0	0						Aug. Wallon.
																0	0	clear	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
British Naval.																		
H. M. S. Amethyst, Bahia Blanca, La Plata, S. A.†	29.77	756.1	76	24.4	76	sw.			1		1							misty.
H. M. S. Audacious, Manila, Luzon, Philippine Ids	29.93	760.2	81	27.2	91	calm			0		1	ne.						blue sky.
H. M. S. Boadicea, Saldanha Bay, Cape Colony	30.04	763.0				s.			1-3		2							d. clouds.
H. M. S. Carysfort, N. 31° 12′, E. 29° 50′	30.30	769.6	65	18.3	73	wnw.			2		2	w.						blue sky.
H. M. S. Champion, Singapore, Malay peninsula	29.96	761.0	82	27.8	83	nne.			2		7	ne.				2	ne.	d. clouds.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.21	767.3									3							d. clouds.
H. M. S. Comus, N. 24° 38′, W. 115° 50′	30.15	765.8	59	15.0	94	ne.			4		2					2	ene.	blue sky.
H. M. S. Condor, N. 36° 05′, E. 17° 20′	30.15	765.8	63	17.2	71	sw.			3		5	sw.				3	wsw.	d. clouds.
H. M. S. Constance, N. 12° 01′, W. 26° 08′	29.99	761.7	78	25.6		ne.			3		6	nnw.				2	nne.	d. clouds.
H. M. S. Curacoa, Yokohama, Japan	30.00	762.0	47.5	8.6	77	calm			0		4							d. clouds.
H. M. S. Crocodile, N. 36° 18′ W. 3° 24′	29.84	757.9	62	16.7	74	nne.			1		10					sm'h		showery.
H. M. S. Diamond, S. 40° 55′, E. 149° 23′	29.88	758.9	63	17.2	67	w.			5		8					2	w.	overcast.
H. M. Dock-Yard, Bermuda, W. I.	29.98	761.5	70	21.1	95	ssw.			2-3		8	ssw.						d. clouds.
H. M. S. Dryad, N. 8° 50′, E., 81° 30′	29.99	761.0	80	26.7		ne.			4		5	ne.				6	ne.	d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.26	768.6	49.5	9.7	82	ne.			1		7							d. clouds.
H. M. S. Fox Hound, Lubuan Island, Borneo	29.89	759.2	80.5	26.9		n.			1		5					1	n	d. clouds.
H. M. S. Gannet, S. 37° 05′, W. 73° 20′	29.95	760.7	58	14.4	76	var.			2		2					2	wsw.	blue sky.
H. M. S. Heroine, N. 1° 34′, W. 25° 30′	29.95	760.7	78	25.6	82	se.			3		4	ese.				3	ese.	d. clouds.
H. M. S. Himalaya, N. 36° 53′, E. 1° 45′	29.91	759.7	64	17.8	78	sse.			1		8							d. clouds.
H. M. S. Iris, N. 40° 40′ E. 17° 59′	30.10	764.5	51	10.6	78	nnw.			1		8					2	nnw.	overcast.
H. M. S. Iron Duke, N 11° 06′ E. 65° 00′.	29.93	760.2	80	26.7	78	nne.			3-4		5	nne.				2	ne.	d. clouds.
H. M. S. Lark, S. 35° 20′, E. 166° 35′	29.94	760.5	68.3	20.2	92	n.			4		10					4	e.	overcast.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.22	767.6	42.6	5.9	74	w.			1		0							misty
H. M. S. Monarch Port Said, Egypt	30.09	764.3	71	21.7	52	nw.			3		2							blue sky
H. M. S. Mutine, S. 2° 41′, W. 111° 42′	30.03	762.7	73.5	23.1		s.			2		2					1	se.	blue sky.
H. M. S Rocket, S. 37° 00′, W. 73° 16′	29.97	761.2	61	16.1	100	calm			0		1							blue sky
H. M. S Superb, N. 36° 36′ E. 36° 09′*	30.22	767.6	66	18.9	?	var.			1									d. clouds.
H. M. S. Swiftsure, S. 11° 30′, W. 78° 06′	30.09	764.3	66	18.9	94	sse.			1-2		5					2	s.	d. clouds
H. M. S. Sylvia, Cape Providence, Patagonia	29.37	746.0	44	6.7	84	w.			4		9							showery.
H. M. S. Tourmaline, Bombay, India	29.97	761.2				nnw.			2		0							blue sky.
H. M. S. Zephyr, N. 37° 35′ E. 122° 50′	30.21	767.3	35	1.7	100	w.			3		0					sm'h		blue sky.
Portuguese Naval.																		
Tamega, Macao, China	30.22	767.7	64.4	18.0	85	calm			0		4			0	0			blue sky.
United States Naval.																		
Navy Yard, Pensacola, Fla*	29.91	759.7	39	3.9	100	nw.	8	3.6			10?		nw.	0.43	10.9			fair?
Navy Yard, Portsmouth, N. H*	29.93	760.2	18	— 7.8	?	nne.	2	0.9			10		ne.	0	0			cloudy.
Naval Hospital, Yokohama, Japan*	30.03	762.7	42.5	5.8	65	calm			0		8		wsw.	0	c			cloudy.
Adams, Sitka, Alaska†	30.13	765.3	34	1.1	90	calm			0		10							light rain.
Alaska, Mare Island, Cal	30.46	773.7	44	6.7	75	ne.			1		2			0	0			clear.
Alliance, N. 19° 52′, W. 75° 51′	30.02	762.5	77	25.0	100	nne.			1		8			light	light	sm'h		cloudy.
Ashuelot, Shanghai, China	30.24	768.1	44	6.7	67	sw.			1		0							clear.
Brooklyn, S. 48° 28′ W. 65° 26′*	29.41	747.0	55	12.8	86	ssw.	12	5.4			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y	30.07	763.8	24	— 4.4	100	nne.	6	2.7			5?		calm	0	0			clear.?
Enterprise, N. 38° 08′, W. 62° 15′ *	29.74	755.4	66	18.9	100	sse			4		10		sw.			long	ne.	cloudy.
Essex, Callao, Peru	30.02	762.5	67	19.4	90	se.			1		8							fair.
Franklin, Norfolk, Va	29.97	761.2	37	2.8	71	nne.	20	8.9			10		nne.	0	0			cloudy.
Galena, Montevideo, Uruguay*	29.73	755 1	78	25.6	86	n.			3		2					sm'h		fair.
Hartford, S. 24° 39′ W. 75° 44′*	29.97	761.2	67	19.4	84	sw.			1		10					sm'h		cloudy.
Independence, Mare Island, Cal	30.50	774.7	41	5.0	91	e.			1		0			0	0			clear.
Iroquois, Callao, Peru	30.05	763.3	67	19.4	90	se.			1		8							cloudy.
Jamestown, Boston, Mass *†	30.00	762.0	23	— 5.0	100	n.			1		10							cloudy.
Juniata, N. 35° 58′, W. 8° 01′*	29.77	756.1	58	14.4	87	wsw.			3		10		nw.	h'vy	h'vy	mod.	w.	raining.
Kearsarge, Port of Spain, Trinidad, W. I	30.05	763.3	79	26.1	82	ene.			2		2		calm			sm'h		fair.
Lackawanna, N. 8° 00′, W. 126° 10′*	29.92	760.0	75	23.9	85	sw.			4		10		sw.			mod.	nw	cloudy
Lancaster, Genoa, Italy	30.14	765.5	38	3.3	71	n.			6		8		n.					squally.
Michigan, Erie, Pa	29.87	758.7	24	— 4.4	100	e.			2		10		w.					cloudy.
Minnesota, New York, N. Y	30.02	762.5	23	— 5.0	100	n.	2	0.9			8							cloudy.
Monocacy, Nagasaki, Japan	30.25	768.3	52	11.1	79	calm			0		10		calm					cloudy.
New Hampshire, Newport, R. I	29.91	759.7	27	— 2.8	100	n.			4		10		calm			sm'h		cloudy.
Nipsic, Lisbon, Portugal	29.62	752.3	58	14.4	76	wsw.			3		10		w.					cloudy.
Onward, Callao, Peru*†	30.12	765.0	66	18.9	94	se.			2		10		n.					cloudy.
Palos, Tientsin, China*	30.26	768.6	28	— 2.2	77	nnw.			1		0							clear.
Pensacola, Panama, U. S. C*	29.87	758.7	74	23.3	95	nw.	3	1.3			5							fair.
Portsmouth, Boston, Mass	29.97	761.2	24	— 4.4	?	nnw.			3		8		nw.	0	0	sm'h		fair.
Powhatan, Boston, Mass	29.97	761.2	21	— 6.1	85	n.			1		10		w.					cloudy.
Quinnebaug, Genoa, Italy	30.16	766.1	38	3.3	71	nne.			5		5							cloudy.
Ranger, N. 20° 22′, W. 117° 05′*	30.02	762.5	68	20.0	84	nne.			2		5		sw.					fair.
Richmond, Hong-Kong, China*	30.15	765.8	64	17.8	63	ene.			1		0		ne.	0	c	mod.	nnw.	fair.
Saratoga, New York, N. Y	30.01	762.2	24	— 4.4	87	nw.			3		5			0	0			clear.
St. Louis, League Island, Pa	30.02	762.5	23	— 5.0	86	n.			2		8		w.	0	0			fair.
Tennessee, St. Pierre, Martinique, W. I*	30.00	762.0	80	26.7	90	e.	9	4.0			5		n.	0	0			cloudy.
Vandalia, N. 19° 17′, W. 68° 45′*	30.05	763.3	78	25.6	86	ese.			4		2			0	0			fair.
Wabash, Boston, Mass	29.98	761.5	19	— 7.2	84	nnw.	9	4.0			8		e.			sm'h		fair.
Wachusetts, Mare Island, Cal	30.36	771.1	42	5.6	91	e.			1		0		nw.	0	0			cloudy.
Wyandotte, Washington, D. C	30.07	763.8	28	— 2.2	100	ne.			4		10							clear.
Yantic, N. 12° 30′, W. 74° 04′	30.01	762.2	75	23.9	95	e.			4		5		e.					snowing.
Merchant Marine.																mod.	e.	fair.
S. S. Grecian, Glasgow, Scotland*	30.04	763.0	42	5.6	91	ene.			2		9		ene.	0	0			cloudy.
S. S. Polynesian, Halifax, N. S.*	29.86	758.4	22	— 5.6		n.			2		10		ne.	snow	snow			snowing.
S. S. British Crown, Liverpool, Engt	29.77	756.1	39	3.9		ese.			2		6		se.	0	0			hazy.
S. S. Indiana, Liverpool, Engt	29.72	754.9	39	3.9	91	e.			3		2		e.					fine.
S. S. Lord Clive, N. 49° 56′ W. 33° 00′						nw.			4		8		nw.	10 h'r	10 h'r	slt	nw.	cloudy.
S. S. Lord Gough, N. 46° 17′, W. 47° 12′	29.88	758.9	28	— 2.2		wnw			6		10		wnw.	0	0	long	wnw.	cloudy.
S. S. Ohio, N. 40° 41′, W. 67° 58′†	29.70	754.4	39	3.9	91	n.			3		10		nnw.			light	n.	cloudy
S. S. Pennsylvania, N. 51° 22′, W. 14° 30′	29.31	744.5	52	11.1	66	se			6		4		se.	0	0	h'vy	s.	fair.
S. S. Ja-on, N. 41° 49′, W. 58° 31′			37.4	3.0		ene.			6		9 n					6	ne.	snowing.
S. S. Stella, N. 51° 23′, W. 26° 54′	29.00	736.6	51	10.6		s.			2		7		s.	3 h'r	3 h'r	6	sw.	squally.
S. S. Bolivia, N. 48° 59′, W. 39° 34′	29.53	750.0	45	7.2	76	ne.			3		5		ene	snow	snow	sm'h		fair.
S. S. Dorian, Castellamare, Sicily*	29.94	760.5									8		sw.	0	0			cloudy.
S. S. Utopia, N. 36° 10′ W. 69° 10′			60	15.6	94	nnw.			3		10		nnw.	8 h'r	8 h'r	cf'd	nw.	overcast.
S. S. Antillas, Ponce, Puerto Rico, W. I†	30.25	768.3				sc.			2		2		se.					
S. S. Ambrose, Amazon River, Brazil†	30.02	762.5	80	26.7		var.			2		2?		e.	2 h'r	2 h'r			cloudy.?
S. S. Carroll, Halifax, N. S			24	— 4.4		ne.			4		10		ne.	snow	snow			hy. snow.
S. S. Auckland, S. 56° 17′, W. 78° 57′	29.54	750.3				ese.			8		5		e.	0	0	h'vy	ese.	misty.
S. S. City of Agra, S. 50° 40′, W. 70° 00′	29.24	742.7	43	6.1	75	wsw.			5		10							overcast.
S. S. Gordon Castle, N. 35° 06′, E. 18° 52′	28 65	727.7	41.2	5.1	82	wsw.			6		8							d. clouds.
St. Kilda, N. 29° 00′, W. 60° 00′	30.15	765.8	65.5	18.6	74	wsw.			5-6		1					high		d. clouds.
S. S. Scotia, N. 37° 27′, E. 5° 34′	30.23	767.8	70.5	21.4	85	var.			4		3							showery.
S. S. Lake Huron, N. 51° 01′, W. 14° 27′*	29.87	758.7	64.3	17.9	53	ssw.			3		9							d. clouds.
S. S. Mexico, N. 29° 04′, W. 115° 30′†	29.08	738.6	42	5.6		ese.			8		10		ese.	0	0	h'vy	ese.	
S. S. Marathon, N. 49° 04′ W. 33° 40′	30.34	770.6	63	17.2	52	ne.			5		0					mod	wnw.	
S. S. Parthia, N. 51° 10′, W. 14° 19′			40	4.4		nw.			4		7		n.	3 h'r	3 h'r	mod.	nw.	cloudy.
S. S. Pavonia, N. 42° 09′, W. 53° 20′	29.33	745.0	48.5	9.2	70	e.			7		8		e.	4 h'r	4 h'r	cf'd	e.	misty.
	29.92	760.0	39	3.9	82	se.			2		2		w.	2 h'r	2 h'r	long	wnw.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																		
S. S. Colima, N. 41° 04′, W. 62° 35′†	29.60	751.8	.....	.....	.....	sse.	.....	.....	3	.....	10	.....	se.	0	0	mod.	se.	cloudy.
S. S. Canada, N. 49° 50′, W. 27° 48′	29.21	741.9	47	8.3	.....	nw.	.....	.....	3	.....	k	.....	nw.	rain	rain	h'vy	nw.	rainy.
S. S. Labradore, N. 48° 20′, W. 39° 17′*†	29.61	752.1	39.2	4.0	.....	n.	.....	.....	5	.....	3	.....	nw.	rain	rain	h'vy	nnw.	fair.
S. S. Ville de Marseilles, N. 44° 32′, W. 7° 49′*†	29.15	740.4	50	10.0	.....	ssw.	.....	.....	5	.....	0	.....	.....	2 h'r	2 h'r	long	sw.	clear.
S. S. Abyssinia, N. 45° 51′, W. 44° 14′	29.78	756.4	42	5.6	91	nw.	.....	.....	7	.....	10	.....	nw.	snow	snow	r'gh	nw.	cloudy
S. S. Wisconsin, N. 51° 20′ W. 14° 45′	29.18	741.2	46	7.8	.....	e.	.....	.....	6	.....	8	.....	e.	0	0	r'gh	e.	cloudy.
S. S. Wyoming, N. 50° 36′, W. 25° 54′	.....	.....	49	9.4	.....	wnw.	.....	.....	3	.....	0	.....	var.	0	0	r'gh	e.	threatening.
S. S. Bohemia, Hamburg, Germany *†	30.26	768.6	.....	.....	.....	e.	.....	.....	3	.....	7	.....	.....	0	0	.....	.....	fair.
S. S. Rugia, N. 50° 00′, W. 25° 20′	29.17	740.9	52	11.1	.....	w.	.....	.....	5–6	.....	8	.....	w.	1 h'r	1 h'r	6	e.	cloudy.
S. S. Silesia, N. 45° 05′, W. 46° 02′†	29.99	761.7	35.5	1.9	.....	nnw.	.....	.....	8	.....	10	.....	nnw.	6 h'r	6 h'r	7	nw.	showery.
S. S. Vandalia, Elbe river, Germany	30.25	768.3	26.6	—3.0	.....	ene.	.....	.....	3	.....	10	.....	ne.	.....	.....	.....	.....	cloudy.
S. S. Wieland, N. 45° 22′, W. 44° 47′	29.86	758.4	.....	.....	.....	nnw.	.....	.....	6	.....	10	.....	nnw.	4 h'r	4 h'r	high	nw.	misty.
S. S. Mentmore, N. 44° 36′, W. 50° 59′*	29.91	759.7	.....	.....	.....	nw.	.....	.....	4	.....	10	.....	s.	snow	snow	sm'h	.....	clearing.
S. S. Archimedes, S. 11° 11′ W. 36° 36′	29.90	759.4	.....	.....	.....	ene.	.....	.....	4	.....	8	.....	se.	1 h'r	1 h'r	light	ne.	cloudy.
S. S. Hevelius, Liverpool, Engf	29.92	760.0	40	4.4	.....	e.	.....	.....	8	.....	5	.....	ese.	0	0	.....	.....	hazy.
S. S. Ptolemy, N. 34° 40′, W. 15° 40′	29.75	755.6	59.7	15.4	82	wnw.	.....	.....	5	ck	6 ks	.....	.....	0.15	3.8	con.	var.	d. clouds.
S. S. Sirius, N. 5° 00′, W. 44° 20′*	29.87	758.7	.....	.....	.....	ne.	.....	.....	6	.....	0	.....	ne.	2 h'r	2 h'r	r'gh	ne.	cloudy.
S. S. Colorado, N. 39° 27′ W. 74° 01′*†	30.00	762.0	30	— 1.1	.....	n.	.....	.....	6	.....	10	.....	n.	shr's	shr's	high	ne.	cloudy.
S. S. San Marcos, N. 24° 31′, W. 81° 21′	29.90	759.4	79	26.1	.....	sse.	.....	.....	4	.....	5	.....	s.	0	0	sm'h	.....	fine.
S. S. Archimede, Marseilles, France†	29.73	755.1	48	8.9	63	se.	.....	.....	6	.....	8	.....	sse.	3 h'r	3 h'r	.....	.....	cloudy.
S. S. Hermod, N. 46° 12′, W. 40° 10′†	29.62	752.3	43	6.1	.....	w.	.....	.....	9	.....	10	.....	w.	snow	snow	high	w.	threatening.
S. S. Alleghany, Norfolk, Va †	29.98	761.5	34	1.1	.....	ne.	.....	.....	7	.....	10	.....	ne.	snow	snow	.....	.....	stormy.
S. S. Glenfyne, N. 29° 49′, W. 65° 47′	.....	.....	.....	.....	.....	s.	.....	.....	4	.....	2	.....	s.	0	0	sm'h	sse.	fair.
S. S. Brooklyn, Portland, Me*	29.84	757.9	17	— 8.3	.....	n.	.....	.....	2	.....	.....	.....	.....	0	0	.....	.....	overcast.
S. S. Dominion, N. 50° 46, W. 30° 56′ *†	29.29	744.0	48	8.9	.....	wnw.	.....	.....	6	.....	10	.....	nw.	0	0	high	nw.	gloomy.
S. S. Chalmette, Algiers, La†	29.97	761.2	36	2.2	.....	nw.	.....	.....	6	.....	10	.....	nw.	4 h'r	4 h'r	.....	.....	cloudy.
S. S. New York, N. 26° 25′ W. 86° 00′†	29.83	757.7	70	21.1	.....	wnw.	.....	.....	7	.....	10	.....	nw.	0	0	h'vy	wnw.	cloudy.
S. S. Denmark, New York, N. Y†	30.07	763.8	24	— 4.4	.....	n.	.....	.....	2	.....	10?	.....	.....	snow	snow	.....	.....	clear?
S. S. England, N. 50° 44′ W. 14° 08′	29.21	741.9	.....	.....	.....	e.	.....	.....	8	.....	10	.....	e.	sq'lls	sq'lls	h'vy	e.	squally.
S. S. Erin, Liverpool, Eng	.....	.....	37	2.8	.....	w.	.....	.....	6	.....	0	.....	wnw.	4 h'r	4 h'r	.....	.....	.....
S. S. Greece, N. 49° 41′, W. 31° 54′	29.24	742.7	42	5.6	.....	wnw.	.....	.....	6	.....	9	.....	nw.	18 h'r	18 h'r	mod.	nw.	threatening.
S. S. Helvetia, N. 41° 16′, W. 59° 00′	29.51	749.5	55	12.8	.....	ese.	.....	.....	6	.....	10	.....	sw.	0	short	ese	.....	hazy.
S. S. Santiago, St. Jago, W. I	30.27	768.8	67	19.4	95	n.	.....	.....	4	.....	0	.....	.....	5 h'r	5 h'r	sm'h	.....	fine.
S. S. City of Alexandria, N. 22° 25′, W. 87° 02′†	29.93	760.2	77	25 0	91	sw.	.....	.....	4	.....	10	.....	nnw.	0	0	h'vy	w.	threatening.
S. S. City of Merida, N. 24° 29′, W. 80° 55′†	29.95	760.7	80.6	27.0	.....	s.	.....	.....	4	.....	8	.....	s.	1 h'r	1 h'r	.....	sm'h	squally.
S. S. City of Washington, Vera Cruz, Mexico†	30.18	766.6	60	15.6	.....	nnw.	.....	.....	8	.....	10	.....	nnw.	0	0	hv'y	nnw.	cloudy.
S. S. Alps, off Sandy Hook, N. J	30.08	764.0	30	— 1.1	.....	n.	.....	.....	3	.....	.....	.....	.....	.....	.....	sm'h	.....	overcast.
S. S. Alpin, N. 26° 00′, W. 85° 05′	29.75	755.6	55	12.8	.....	wnw.	.....	.....	4	.....	.....	.....	.....	.....	.....	sm'h	sse.	clear.
S. S. Neckar, N. 45° 20′, W. 42° 34′	29.07	753.6	40.0	4.4	?	wnw.	.....	.....	8	.....	6	.....	wnw.	rain	rain	h'vy	wnw.	squally.
S. S. Oder, N. 42° 37′ W. 57° 34′	29.88	758.9	37.4	3.0	.....	ese.	.....	.....	3	.....	7	.....	ese.	0	0	sm'h	var.	cloudy.
S. S. Sailer, Brouwershaven, Netherlands*†	30.30	769.6	.....	.....	.....	e.	.....	.....	4	.....	10	.....	e.	0	0	.....	.....	cloudy.
S. S. Strassburg, S. 9° 01′ W. 34° 38′	30.03	762.7	81.0	27.2	91	var.	.....	.....	3	.....	7?	.....	e.	2 h'r	2 h'r	mod.	e.	clear?
S. S. Werra, Bremerhaven, Germany	30.35	771.0	28.4	—2.0	.....	ene.	.....	.....	4	.....	8	.....	e.	0	0	.....	.....	.....
S. S. Belgic, N. 35° 07′, W. 178° 23′*†	29.81	757.2	53	11.7	?	s.	.....	.....	6	.....	10	.....	w.	0	0	r'gh	sw.	cloudy.
S. S. Coptic, N. 33° 17′, E. 135° 38′	30.22	767.6	55.5	13.1	68	var.	.....	.....	3	.....	2	.....	wsw.	0	0	sm'h	nne.	clear.
S. S. Gaelic, N. 34° 39 , E. 151° 43′	29.98	761.5	50	10.0	86	nw.	.....	.....	7	.....	6?	.....	nw.	3 h'r	3 h'r	.....	wnw.	cloudy?
S. S. Oceanic, N. 47° 00′, W. 159° 05′	29.47	748.5	41	5.0	91	n.	.....	.....	6	.....	4	.....	ne.	.....	.....	mod.	cross	squally.
S. S. City of Augusta, New York, N.Y	29.88	758.9	.....	.....	.....	nnw.	.....	.....	4	.....	6?	.....	n.	0	0	.....	.....	clear.†
S. S. Mississippi, N. 40° 09′, W. 124° 27′*†	30.54	775.7	50	10.0	.....	e.	.....	.....	2	.....	0	.....	.....	.....	.....	mod.	nw.	clear.
S. S. Oregon, N. 45° 15′, W. 124° 18′†	30.57	776.5	50.5	10.3	93	calm	.....	.....	0	.....	0	.....	.....	.....	.....	light	wsw.	clear.
S. S. Ancon, San Pedro Bay, Cal†	30.29	769.4	52	11.1	47	n.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. City of Chester, San Francisco, Cal *†	30.49	774.4	48	8.9	70	n.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. G. W. Elder, Seattle, Wash. Ter†	30.49	774.4	50	10.0	86	calm	.....	.....	0	.....	4?	.....	.....	.....	.....	.....	.....	overcast.†
S. S. State of California, San Francisco, Cal †	30.52	775.2	42	5.6	83	n.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Victoria, San Francisco, Cal	.....	.....	44	6.7	.....	nne.	.....	.....	2	.....	5	.....	nne.	.....	.....	.....	.....	fair.
S. S. City of New York, S. 7° 12′, W. 167° 57′†	29.95	760.7	81	27.2	74	ne.	.....	.....	2	.....	0	.....	.....	0	0	mod.	ne.	clear.
S. S. City of Sydney, S. 36° 19′ E. 174° 57′ †	30.21	767.3	71	21.7	71	ne.	.....	.....	3	.....	5	.....	ne.	0	0	mod.	ne.	hazy.
S. S. City of Tokei, Hong Kong, China†	30.24	768.1	62	16.7	66	calm	.....	.....	0	.....	5?	.....	ne.	0	0	small	nw.	clear.†
S. S. Colima, N. 15° 48′, W. 97° 42′ †	29.98	761.5	75	23.9	100	nw.	.....	.....	3	.....	4?	.....	wnw.	0	0	mod.	w.	clear.†
S. S. Grenada, Acapulco, Mexico †	29.96	761.0	78	25.6	86	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. San José, N. 8° 54′, W. 79° 30′*†	29.87	758.7	.....	.....	.....	nnw.	.....	.....	2	5 c	0	wnw.	.....	0	0	light	nw.	.....
S. S. Zealandia, Sydney, N. S. W.*	29.82	757.4	70	21.1	85	e.	.....	.....	4	.....	8	.....	e.	.....	.....	.....	.....	fine
S. S. Muriel, Antiqua, W. I*	30.09	764.3	80	26.7	.....	e.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	fair.
S. S. Caracas, N. 18° 24′, W. 67° 37′†	30.12	765.0	79.5	26.4	78	ene.	.....	.....	5	.....	2	.....	e.	0	0	sharp	ene.	hazy.
S. S. Claudius, N. 34° 50′, W. 75° 00′ †	29.96	761.0	63.0	17.2	89	ne.	.....	.....	3	.....	10	.....	ne.	2 h'r	2 h'r	long	ne.	rainy.
S. S. Valencia, N. 23° 48′, W. 68° 54′ †	30.19	766.8	81	27.2	87	ese.	.....	.....	3	.....	3	.....	se.	0	0	mod.	ese	fine.
S. S. Belgenland, Antwerp, Belgium†	30.01	762.2	33	0.6	80	ese.	.....	.....	6	.....	0	.....	.....	snow	snow	.....	.....	clear.
S. S. Pennland, N. 50° 04′, W. 18° 49′	29.31	744.5	47	8.3	?	se.	.....	.....	4	.....	10	.....	e.	0	0	long	sse.	hazy.
S. S. Rhynland, N. 46° 35′, W. 46° 30′	29.85	758.2	30	—1.1	100	nw.	.....	.....	5	.....	6	.....	nw.	snow	snow	long	nw.	cloudy.
S. S. Switzerland, N. 49° 54′, W. 14° 32′†	29.12	739.6	.....	.....	.....	e.	.....	.....	6	.....	10	.....	e.	0	0	h'vy	e.	cloudy.
S. S. Waesland, N. 42° 43′ W. 58° 48′	29.85	758.2	46	7.8	.....	ese.	.....	.....	5	.....	10	.....	se.	1 h'r	1 h'r	mod.	ese.	light rain.
S. S. Maas, N. 43° 20′, W. 44° 01′	29.92	760.0	47.7	8.7	.....	n.	.....	.....	0	.....	7	.....	s.	0	0	7	nw.	.....
S. S. Schiedam, N. 46° 13′, W. 36° 10′	29.29	744.0	58.5	14.7	86	nnw.	.....	.....	6	.....	6	.....	nw.	rain	rain	h'vy	wnw.	cloudy.
S. S. W. A. Scholten, N. 44° 09′, W. 57° 56′	29.84	757.9	33.4	0.8	98	ese.	.....	.....	6	.....	10	.....	e.	snow	snow	mod	nw.	snowing.
S. S. State of Florida, N. 54° 07′, W. 24° 36′	29.29	744.0	53	11.7	.....	ese.	.....	.....	5	.....	10	.....	e.	4 h'r	4 h'r	h'vy	se.	overcast.
S. S. State of Indiana, N. 46° 01′, W. 47° 01′†	29.94	760.5	31	—0.6	.....	nnw.	.....	.....	4	.....	8	.....	w.	0	0	mod.	nw.	fine.
S. S. Iowa, N. 42° 49′, W. 59° 44′*†	29.80	756.9	41	5.0	.....	e.	.....	.....	5	.....	10	.....	e.	2 h'r	2 h'r	mod.	e	cloudy.
S. S. Phantyn, N. 39° 57′, W. 60° 46′	29.36	745.7	.....	.....	.....	.....	.....	.....	6	.....	6	.....	sw.	7 h'r	7 h'r	rg'b	s.	squally.
S. S. Britannic, N. 41° 55′, W. 54° 00′ †	29.93	760.2	45	7.2	92	se.	.....	.....	3	.....	2	.....	ne.	0	0	sm'h	e.	fair.
S. S. Germanic, N. 48° 25′, W. 39° 53′†	29.57	751.1	46	7.8	.....	nne.	.....	.....	3	.....	3	.....	ne.	snow	snow	mod.	w.	d. clouds.
S. S. Lepanto, N. 42° 25′, W. 64° 26′*	29.71	754.6	32	0.0	.....	e.	.....	.....	7	.....	10	.....	ene.	hail	hail	sli't	ne.	squally.
S. S. Romano, N. 46° 47′, W. 36° 14′*†	29.36	745.7	46	7.8	.....	nnw.	.....	.....	4	.....	6	.....	n.	5 h'r	5 h'r	mod.	nw.	squally.
S. S. Salerno, N. 42° 53′, W., 54° 13′	29.81	757.2	31	— 0.6	.....	se.	.....	.....	5	.....	10	.....	se.	1 h'r	1 h'r	mod.	se.	cloudy.
S. S. Catherine Whiting, Philadelphia, Pa†	30.09	764.3	.....	.....	.....	nnw.	.....	.....	1	.....	.....	.....	nw.	0	0	.....	.....	.....
S. S. Norman, N. 42° 23′, W. 71° 07′ †	30.01	762.2	.....	.....	.....	nw.	.....	.....	5	.....	.....	.....	n.	0	0	.....	.....	cloudy.
S. S. Saxon, Chester, Pa†	30.13	765.3	24	— 4.4	.....	n.	.....	.....	3	.....	5	.....	.....	0	0	.....	.....	threatening.
MISCELLANEOUS.																		
Schr. Abbie H Ghegn, N. 32° 45′, W. 79° 00′†	29.83	757.7	56	13.3	.....	ne.	.....	.....	1	.....	.....	.....	.....	0	0	.....	.....	.....
Bk. Adelaide, S. 0° 50′, W. 31° 48′*†	29.94	760.5	83	28.3	.....	se.	.....	.....	4	.....	1	.....	se.	0	0	mod.	se.	hazy.
Bk. Alpha, N. 6° 50′, W. 56° 25′*†	29.98	761.5	82	27.8	.....	ene.	.....	.....	6	.....	4	.....	ene.	½ h'r	½ h'r	mod.	ene.	fair.
Schr. Annie Holton, N. 22° 01′, W. 97° 00′†	30.29	769.4	63	17.2	.....	nw.	.....	.....	10	.....	2	.....	nnw.	0	0	r'gh	n.	clear.
Bk. Anna Thormann, S. 29° 01′ E. 8° 42′	30.17	766.3	72.7	22.6	74	s.	.....	.....	1	.....	1 k	.....	sw.	0	0	long	ssw.	clear.
S. S. Antonio Lopez, Cadiz, Spain	29.77	759.1	55.5	13.1	87	sw.	.....	.....	4	.....	10	.....	.....	24 h'r	24 h'r	.....	.....	light rain.
Bk. Aquidneck, N. 32° 08′, W. 71° 07′*†	30.10	764.5	76	24.4	.....	var.	.....	.....	3	.....	10	.....	.....	light	light	light	sw	cloudy.
Bgt. Arthur, S. 4° 13′, W. 24° 20′*†	30.01	762.2	.....	.....	.....	se.	.....	.....	4	.....	2	.....	se.	0	0	mod.	var.	.....
Bk. Belle of the Bay, Galveston, Texas†	30.23	767.8	.....	.....	.....	wnw.	.....	.....	3	.....	3	.....	w	0	0	.....	.....	clear.
Bk. Bremen, N. 46° 45′, W. 13° 40′ *	29.62	752.3	.....	.....	.....	e.	.....	.....	6	.....	8	.....	e.	0	0	.....	var.	cloudy.
S. S. Burswell, N. 43° 57′, W. 34° 57′.*†	29.40	746.7	51	10.6	.....	w.	.....	.....	9	.....	6	.....	w.	4 h'r	4 h'r	str'ng	w.	.....
Bk. Champion, Philadelphia, Pa	.....	.....	36	2.2	.....	nne.	.....	.....	3	.....	10	.....	ne.	0	0	.....	.....	fair.
Bk. Commerce, N. 36° 30′, W. 42° 31′ †	29.90	761.0	61	16.1	.....	nw.	.....	.....	3	.....	2	.....	nw.	0	0	mod	nw.	fine.
S. S. D. J. Foley, N. 36° 56′, W. 74° 49′*†	29.95	760.7	43	6.1	92	nne.	.....	.....	4	.....	9	.....	.....	0	0	sm'h	nne.	cloudy.
Bk. E. D. Bigelow, N. 47° 14′, W. 18° 31′*†	29.00	736.6	.....	.....	.....	e.	.....	.....	4	.....	10	.....	var.	0	0	cross	e.	gloomy.
Schr. Edith R. Seward, Wilmington, N. C†	29.85	758.2	49	9.4	.....	n.	.....	.....	1	.....	7	.....	.....	16 h'r	16 h'r	.....	.....	rainy.
Bk. Edmund Phinney, S. 0° 15′, W. 31° 40′†	29.94	760.5	82	27.8	.....	se.	.....	.....	4	.....	7	.....	se.	0	0	r'gh	se.	hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
S. E. J. Spicer, Liverpool, Eng.	29.76	755.9	44	6.7	72	se.			6		10		se.	0	0			hazy.
Bk. E. L. Pettingill, S. 31° 48′, W. 121° 46′*†	30.20	767.1	70	21.1		ese.			5		2		ese.	0	0	mod.	ssw.	
Bk. Essex, Majambo, Madagascar*†	29.92	760.0	89	31.7		nw.			5					sh'rs	sh'rs			
Schr. F. E. McDonald, St John's Bar, Fla†	29.74	755.4				calm			0		10			rain	rain	sm'h		rain & fog.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†	30.06	763.5	33	0.6		n.			3		10		calm					cloudy.
S. S. Foscolia, Dunkirk, France						ne.			4		0			0	0			clear.
Bk. Freya, Matanzas, Cuba, W. I.			73	22.8		sw.			1		10		sw.	3 h'r	3 h'r			raining.
Bg. George, Ponce, Porto Rico, W. I*†	30.19	766.8				e.			1		2			light	light	mod.		clear.
S. Geo. Stetson, N. 7° —′ W. 28° —′ *†	30.06	763.5	78	25.6	86	ene.			5		3		ene.	0	0	sm'h	ne.	cloudy.
Bk. Gronsvaer, Auckland, N. Z.	30.18	766.5	70.2	21.2		ne.			5		2		w.	0	0			clear.
Bk. Hattie G. McFarland, Demerara, Brit. Guiana*†	30.05	763.3	76	24.4		ene.			5		4		e.	4 h'r	4 h'r			showery.
Schr. Hattie Weston, N. 27° 35′, W. 59° 45′ *†	30.28	769.1	73	22.8		s.			1		10		s.	0	0	mod.	se.	cloudy.
S. Hedwig, N. 44° 19′, W. 33° 24′	29.38	746.2	51.8	11.0		w.			7–8		6		w.	3 h'r	3 h'r	5	nw.	raining.
Bk. Heinrich & Tonio, N. 49° 05′, W. 7° 20′			45	7.2		e.			7		10		e.	0	0	r'gh	e.	cloudy.
Schr. Isabel Alberto, Jersey City, N. J. †	30.10	764.5				nw.			2		2		n.	snow	snow			fair.
Schr. James Slater, N. 40° 36′, W. 74° 00′			25	— 3.9		nnw.			5		10		n.	½ h'r	½ h'r			cloudy.
Bk. Johanne, N. 46° 04′, W. 15° 20′ *†	28.70	729.0	55	12.8		ene.			7		8		nw.	6 h'r	6 h'r	r'gh	ne.	fair.
Schr. John L. Thomas, N. 27° 05′, W. 64° 20′*†	30.24	768.1				s.			2		1		s.	½ hr	½ hr	mod.	se.	fine.
Bkt. Josephine, S. 6° 48′, W. 30° 51′†	29.95	760.7	84	28.9	71	ese.			4		5		se.	0	0	sm'h		fair.
S. S. J. W. Wilson, Off Simballier, La*†	29.96	761.0	38	3.3		nw.			7		10		nw.	12 h'r	12 h'r	h'vy	nw.	cloudy.
Light House Tender, Laurel, Punta Rassa, Fla†	29.80	756.9	72	22.2		ssw.			2		9		sw.	3 h'r	3 h'r	sm'h		cloudy.
Bg. Lillan, Georgetown, Guiana, S. A†	30.07	763.8	81	27.2		ne.			5		7		e.	6 h'r	6 h'r			cloudy.
Bk. Louise Adelaide, Vera Cruz, Mexico						nw.			6		10		nw.			hv'y	n.	
Bg. L. & W. Armstrong, N. 34° 12′ W. 72° 30′*†	29.92	760.0				nnw.			1		9		sw.	2 h'r	2 h'r	sm'h	sw.	drizzling.
S. S. Malabar, Valencia, Spain*†	29.70	754.4				wnw.			9				wnw.	0	0	sm'h		cloudy.
Schr. Minnie A. Bonsall, Jacksonville, Fla †	29.82	757.4	68	20.0		s.												light rain.
S. Minnie N. Gerow, N. 39° 45′, W. 72° 20′ *†	29.82	757.4				ne.			4		7		ne.			sm'h	n.	squally.
S. M. P. Grace. S. 41° 32′, W. 36° 35′ *	29.89	759.2	62	16.7		n.			4		1		nnw.	0	0	sm'h	s.	fine.
Bg. Myrtle, N. 27° 14′, W. 53° 34′*†	30.10	764.5				calm			0		0			0	0	sm'h		fair.
Bkt. Norena, N. 25° 40′, W. 78° 15′*†	30.03	762.7				s.			2		1		s.	0	0	sm'h		fine.
Bg. O. C. Clary, Miragoane, Hayti, W. I.*†	30.00	762.0	80	26.7	91	n.			2									
Bk. Ottawa, N. 38° 15′, W. 0° 06′*†	29.69	754.1	59	15.0		sw.			3		8		wsw.	0	0	sm'h		cloudy.
S Paramita, San Francisco, Cal.			47	8.3		ese.			2					0	0			clear.
Schr. Pearl Nelson, N. 36° 20′, W. 74° 04′*†	29.96	761.0	62	16.7		ne.			6		9		n.	rain	rain	long	n.	
S. S. Peconic, N. 26° 48′, W. 86° 10′*†	29.74	755.4	73	22.8		nw.			6		10		nw.	0	0	mod	var.	misty.
S. S. Raleigh, Kingston, Jamaica, W. I*†	29.95	760.7	77	25.0		calm			0		0			0	0			
Bk. Reindeer, N. 27° 06′, W. 61° 32′*	30.17	766.3				sse.			1		2		ssw.	0	0	long	se.	
S. Rudolph, N. 48° 56′, W. 7° 00′			37.5	3.1		ese.			7		107		ene.	6 h'r	6 h'r	long	ene.	clear.?
Schr. S. B. Hubbard, Jacksonville, Fla*†	29.85	758.2	68	20.0		calm			0		10			12 h'r	12 h'r			foggy.
Bk. Scud, N. 28° 15′, W. 57° 17′*†	30.27	768.8	74	23.3		s.			3		2		s.	0	0	sm'h		clear.
Bk. Southern Belle, N. 30° 45′, W. 23° 15′ *†	29.70	754.4	62	16.7		ne.			5		2			2 h'r	2 h'r	long	nw.	clear.
S. Sovereign of the Seas, N. 3° 56′, W. 111° 25′*†	30.08	764.0	75	23.9	90	ssw.			4		10		sw.	0	0	long	ene.	cloudy.
Bk. Sunbeam, N. 39° 48′, W. 13° 31′*†	29.45	748.0	57	13.9	87	sw.			9		8		sw.	6 h'r	6 h'r	h'vy	sw.	cloudy.
S. S. Sunbeam, N. 26° 00′, W. 79° 35′	29.92	760.0	78	25.6	93	sse.			4		4		s.	0	0	1	s.	d. coud s.
S. Titan, N. 32° 32′, W. 42° 52′*†	30.16	766.1	67	19.4	89	nnw.			3		1		nnw.	0	0	mod.	nw.	clear.
Bk. Wandering Jew, Montevideo, Uruguay †	29.76	755.9	81	27.2		nne.			2		7		nne.	2 h'r	2 h'r			fair.
Schr. Wm. Wiler, St. John's River, Fla†	29.76	755.9				sse.			1		10		s.	2 h'r	2 h'r			fine.
Bk. Xenia, N. 33° 34′, W. 52° 11′*†	30.20	767.1	70	21.1		wsw.			6		2		wsw.	2 h'r	2 h'r	mod.	w.	clear.

International Chart I. January 9, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 10, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.87	758.8	63.0	17.2	86	ne.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair...	Malaterre.
Algiers	.....	.....	29.83	757.7	61.9	16.6	64	wsw.	.....	.....	0	.....	10	.....	.....	inap.	inap.	covered.....	Thève.
La Calle	.....	.....	29.92	760.0	69.8	21.0	33	w.	.....	.....	1	.....	4	.....	.....	0	0	cloudy	Fonfréde.
Tunis	.....	.....	29.92	760.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	29.98	761.4	62.2	16.8	68	s.	.....	.....	4	.....	4	.....	.....	inap.	inap.	cloudy	Pérès.
Tebessa	.....	.....	30.06	763.5	61.9	16.6	41	sw.	.....	.....	6	.....	1	.....	.....	0	0	very fair.....	Dognon.
Geriville	.....	.....	.....	.....	54.0	12.2	59	w.	.....	.....	5	.....	2	.....	.....	0	0	pretty fair...	Lonchamp.
Laghouat	.....	.....	30.11	764.8	57.2	14.0	43	ssw.	.....	.....	2	.....	2	.....	.....	0	0	fair.....	Abraham.
Biskra	.....	.....	30.10	764.5	58.6	14.8	33	calm	.....	.....	0	.....	4	.....	.....	0	0	cloudy , ...	Malau.
Australian.																			
Melbourne, Victoria	30.00	762.0	30.09	764.3	59.0	15.0	61	s.	3	1.3	.....	.....	6	.....	.....	0	0	fine.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.40	746.8	29.98	761.5	29.5	— 1.4	73	ne.	.....	.....	1	.....	10	.....	.....	0.024	0.6	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.20	741.7	30.01	762.1	29.5	— 1.4	92	wsw.	4.9	2.2	.....	.....	10	.....	.....	0.008	0.2	.....	Dr. Wierzbiski.
Eperies	29.08	738.5	30.02	762.4	23 0	— 5.0	86	calm	.....	.....	0	7 cs	0	s.	.....	0	0	.....	Julius Mikolik.
Gratz	28.73	729.7	30.06	763.4	27.5	— 2.5	58	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.51	724.1	30.04	763.1	21.2	— 6.0	87	w.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.56	725.4	29.98	761.6	23.7	— 4.6	79	ene.	.....	.....	2	c	3 k	.....	.....	0	0	slightly cl'dy	The Staff.
Lemberg	28.85	732.8	29.89	759.2	27.5	— 2.5	85	nw.	.....	.....	3	.....	10	.....	.....	0.035	0.9	.....	Dr. V. Stanecki.
Neu Schmecks	26.44	671.6	29.90	759 5	33.8	1.0	83	calm	.....	.....	0	.....	4	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	29.86	758.4	29.98	761.4	40.6	4.8	90	ne.	.....	.....	1	.....	10	.....	.....	0.827	21.0	.....	I. R.Hydrographic Office.
Szathmar	29.51	749.6	29.98	761.4	25.2	— 3.8	86	e.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Joseph Midlinszay, S. J.
Szegedin	29.72	754.9	30.02	762.5	26.2	— 3.2	78	ne.	.....	.....	1	.....	6	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.90	759.4	30.00	761.9	40.3	4.6	81	calm	.....	.....	0	.....	10	.....	.....	0.047	1.2	foggy	Royal Academy.
Vienna	29.31	744.5	30.08	764 0	23.7	— 4.6	77	calm	.....	.....	0	.....	0	.....	.....	0	0	....	I. R. Central Met. Obs'
British.																			
Aberdeen	29.80	750 9	29.90	759.4	43.2	6.2	79	se.	27	12.1	.....	.....	4	.....	.....	0	0	squally.....	W. Boswell
Armagh, Observatory	29.31	744.5	29.55	750.6	41.0	5.0	89	e.	16	7.2	.....	.....	10	.....	.....	.....	.....	gloomy.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.60	751.8	39.8	4.3	89	e.	23	10.3	.....	.....	10	.....	.....	.....	.....	misty	John Hartnup.
Bolton, Sharples	29.09	738.9	29.63	752.6	38.4	3.6	90	e.	12	5.4	.....	.....	10	.....	.....	.....	.....	overcast.....	Thomas Mackereth.
Bradford, Yorkshire	29.28	743.7	29.68	753.9	38.7	3.7	95	e.	.....	.....	2	.....	10	.....	.....	0.14	3.6	raining.....	McLandsborough&Preston
Bridgetown, Barbadoes	30.02	762.5	30.05	763 3	81.0	27.2	63	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds.....	Corpl.J.Surgenor, A. H.C.
Cardington	.....	.....	.....	.....	42.0	5.6	93	e.	.....	.....	0.4	.....	10	.....	.....	.....	.....	overcast.....	John McLaren.
Chatham, School M. E	29.59	749.3	29.64	752.8	39.6	4.2	87	e.	.....	.....	1	.....	8	.....	.....	blank	blank	misty.....	Corpl. G. A. Pickles.
Falmouth, Observatory	29.08	738 6	29.31	744.5	47.9	8.8	89	ese.	.....	.....	0	.....	10	.....	.....	.....	.....	squally.....	The Staff.
Fort Napier, Natal	27.52	699.0	29.74	755.4	81.0	27.2	78	se.	.....	.....	2	.....	3	.....	.....	.....	.....	blue sky.....	Corpl. F. Milner, A. H. C.
Galway	29.31	744.5	29.35	745 5	44	6.7	91	e.	.....	.....	3	.....	4	.....	.....	0	0	gloomy.....	Wm. Ryan.
Gibraltar, Mediterranean	29.73	755.1	29.78	756.4	60.0	15.6	95	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	gloomy.....	Sgt. J. Norris, A. H C.
Glasgow, Observatory	29.51	749 5	29.72	754.9	40.0	4.4	73	e.	.....	.....	7	.....	10	.....	.....	.....	.....	overcast.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.44	747.8	29.62	752.3	39.7	4.3	92	e.	.....	.....	1	.....	10	.....	.....	blank	blank	overcast	The Staff.
Guernsey	29.12	739.6	29.42	747.3	47.3	8.5	90	se.	.....	.....	3	.....	10	.....	.....	.....	.....	raining.....	A. Collenette, F. M. S
Kew, Observatory	29.57	751.1	29.61	752.1	41.1	5.1	88	e.	20	8.9	.....	.....	10	.....	.....	.....	.....	misty.....	The Staff.
Leicester, Museum	29.28	743 7	29.64	752.8	40.2	4.6	96	se.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	J. G. Smith.
Malta, Mediterranean	29.88	758.9	29.94	760.5	61.1	16.4	68	sw.	.....	.....	2	.....	2	.....	.....	0	0	blue sky.....	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.98	761.5	30.02	762.5	65.2	18.4	65	nw.	.....	.....	5	.....	8	.....	.....	.....	.....	d. clouds	C. S. Duncombe
Oscott, St. Mary's College	29.06	738.1	29.60	751.8	33.1	0.6	97	e.	.....	.....	4	.....	10	.....	.....	.....	.....	threatening.	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.30	745.7	29.59	751.6	40.5	4.7	95	e.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast.....	The Staff.
Plymouth	29.28	743.7	29.35	745.5	47.4	8.0	89	ese.	.....	.....	5	.....	10	.....	.....	.....	.....	overcast.....	John Merrifield.
Sandwick Manse, Orkneys	29.84	757.9	29.94	760.5	40.4	4.7	94	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky.....	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.88	758.9	29.94	760.5	43.6	6.4	85	wsw.	.....	.....	2	.....	9	.....	.....	.....	.....	d. clouds.....	W. H. Lyne.
Sheffield	29.40	746 7	29.69	754.1	38.3	3.5	76	ne.	.....	.....	1	.....	10	.....	.....	0.07	1.8	overcast.....	W. F. Cooper.
Silloth Rectory	29.63	752.6	29.66	753.4	38.0	3.3	91	se.	.....	.....	3	.....	10	.....	.....	0.025	0.6	showery.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.66	753.4	38.2	3.4	89	e.	15	6.7	.....	.....	10	.....	.....	.....	.....	overcast.....	Rev. S. J. Perry.
Strathfield Turgiss	29.38	746.2	29.60	751.8	41.0	5.3	94	se.	.....	.....	2	.....	10	.....	.....	.....	.....	raining.....	Rev.C.H.Grimmis,F.M.S.
Truro, Royal Institution	29.24	742 7	29.28	743 7	50	10.0	78	e.	.....	.....	7	.....	10	.....	.....	.....	.....	raining.....	W. Newcombe.
Valencia, Observatory	29.20	741 7	29.23	742.4	48.9	8.4	75	e	34	15.2	.....	.....	10	.....	.....	.....	.....	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.89	759 2	29.94	760.5	4	—15.6	100	w.	1	0.4	.....	.....	10 n	.....	calm	0	0	threatening.	H. J. Cundall, C. E
Chatham, N. B*	29.96	761.0	30.03	762.7	— 7	—21.7	100	n.	14	6.3	.....	.....	10 s	.....	n.	0.01	0.3	cloudy.....	G. A. Blair.
Cornwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Dalhousie	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Father Point, Quebec*	30.04	763 0	30.06	763.5	—14	—25.6	63	sw.	5	2.2	.....	5 k	2 s	sw.	calm	0	0	fair.....	J. McWilliams.
Fort Garry, Manitoba*	29.17	740 9	30.10	764.5	— 3	—19.4	68	n.	17	7.6	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	29.75	755.6	29.90	759.4	6	—14.4	87	n.	7	3.1	.....	.....	10 n	.....	.....	0.050	1.3	cloudy..	A. Allison.
Kingston, Ontario*	29.47	748.5	29.86	758.4	—13	—25.0	80	n.	9	4.0	.....	2 ck	5 s	nw.	calm	0	0	cloudy.....	A. P. Knight, M. A
Montreal, Quebec*	29.71	754.0	29.96	761.0	—18	—27.8	100	ne.	11	4.9	.....	.....	10 n	.....	.....	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.08	738.6	29.85	758.2	1	—17.2	68	e.	12	5.4	.....	0	2 ks	e.	.....	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	28.99	736.3	29.74	755.4	7	—13.9	100	ne.	14	6.3	.....	2 cs	0	ne.	.....	0	0	fair.....	H. Morgan.
Port Stanley, Ontario	29.03	737.3	29.72	754.9	11	—11.7	83	e.	11	4.9	.....	.....	10 n	.....	e.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.64	752.8	30.02	762.5	—15	—26.1	80	calm	.....	.....	0	.....	fg.	.....	.....	0	0	fo gy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.43	747.5	29.90	761.0	—10	—23.3	82	calm	0	0	.....	.....	8 ks	.....	nw.	0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	28.95	735.3	29.72	754.9	11	—11.7	91	se.	20	8.9	.....	.....	10 k	.....	.....	0.07	1.8	cloudy.....	
St. Andrews, N. B	29.84	757.9	29.89	759 2	3	—16.1	100	ne.	8	3.6	.....	.....	10 n	.....	.....	0	0	cloudy.....	
Sydney, C. B*	29.86	758.4	29.93	760.2	11	—11.7	87	n.	3	1.3	.....	.....	10 n	.....	.....	0.26	6.6	cloudy.....	T. C. Hill, C. E
Toronto, Ontario*	29.39	746.5	29.82	757.4	1	—17.2	83	ne.	15	6.7	.....	.....	10 s	.....	.....	0.30	7.6	cloudy.....	Magnetic Observatory.
Yarmouth, N. S*	29.71	754.6	29.78	759.4	14	—10.0	70	e.	10	4.5	.....	.....	10 s	.....	ne.	0	0	cloudy.....	Lt. F. E. Wilmot, R N.
Cape Colony.																			
Cape St. Francis Lt. House	29.90	759 4	29.93	760.2	72.0	22.2	84	sw.	8,8	3.9	.....	0	0	.....	.....	0.050	1.3	light haze..	John Duthie.
Springbok Fontein	27.88	708 1	.....	.....	81	27.2	35	ssw	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
CHINESE (*Sub-series*).																			
Sung-shu-chwang	24.65	626.1	.....	.....	18.7	— 7.4	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.11	764.8	30.22	767.6	31.1	— 0.5	53	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	**Mission, S. J.**
Zi-Ka-Wei, near Shanghai	30.33	770.4	30.36	771.1	31.5	— 0.3	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. Marc Dechevrens .S.J
DANISH.																			
Copenhagen	30.10	764.4	30.14	765.6	33.1	0.6	83	ese.	13	6	.....	.....	5	.....	.....	.....	.....	.....	**Oversergent Fischer.**
Fanoe	30.04	763.0	30.06	763.5	29.3	— 1.5	98	ene.	.....	.....	4	.....	10	.....	.....	.....	.....	foggy	**Overloerer Lauridsen.**
Godthaab, Greenland	28.96	735.6	29.00	736.7	27.9	— 2.3	75	ne.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	**S. Kleinschmidt.**
Ivigtut, Greenland	28.97	735.7	28.98	736.2	28.0	— 2.2	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	snowing	
Jacobshavn, Greenland	29.45	747.9	29.49	749.1	15.8	— 9.0	.....	calm	.....	.....	0	.....	7	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.71	754.5	29.75	755.6	35.2	1.8	84	se.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.98	761.5	30.02	762.4	44.2	6.8	87	se.	18	8	.....	.....	7	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Vestervig	30.02	762.5	30.11	764.8	28.8	— 1.8	98	ene.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	**Loerer Oesterbol.**
Upernavik, Greenland	29.80	756.8	29.84	758.0	— 7.6	—22.0	.....	e.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	
FRENCH.																			
Agen, Normal School	28.98	736.0	29.63	752.5	53.6	12	90	calm	.....	.....	0	.....	8	.....	e.	0	0	.....	M. Labroue, Director.
Alençon, Normal School	28.95	735.4	29.50	749.4	41.4	5.2	97	ne.	.....	.....	1	.....	10	sSW.	sSW.	0.39	10.	.....	M. Nicot, Director.
Arras, Engineer School	29.43	747.4	29.69	754.2	37.0	2.8	89	.....	.....	.....	1	.....	.....	.....	.....	0	0	.....	**M. Fénéon, Command't.**
Avignon, Normal School	29.53	750.0	29.61	752.0	49.3	9.6	84	ene.	.....	.....	2	.....	10	.....	.....	.....	.....	rainy	M. Giraud, Director.
Bar-sur-Seine	29.06	738.2	29.63	752.6	41.5	5.3	84	s.	.....	.....	1	.....	10	.....	sse.	0.244	6.2	light rain	M. Saillard, Director.
Beauvais, Normal School	29.35	745.6	29.63	752.5	36.9	2.7	89	e.	.....	.....	1	.....	8	.....	sse.	0.181	4.6	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.72	729.6	29.65	753.0	39.2	4	87	ne.	.....	.....	1	.....	.....	.....	ne.	0.51	13.	.....	M. Gobin, Director.
Bordeaux, Observatory	29.23	742.4	29.49	749.0	54.7	12.6	57	s.	.....	.....	2	.....	2	.....	.....	0.193	4.9	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.05	737.8	29.66	751.9	43.7	6.5	77	se.	.....	.....	1	.....	10 n	.....	se.	0.083	2.1	raining	M. Malet, Director.
Brest, Naval Observatory	29.64	737.6	29.28	743.8	48.9	9.4	92	se.	.....	.....	3	.....	10	.....	se.	0.189	4.8	.....	M. de Kermaréc, Dir.
Caen, Normal School	29.49	749.1	29.57	751.1	38.5	3.6	97	W.	.....	.....	1	.....	10	.....	.....	0.220	5.6	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29 28	743.7	29.72	754.9	40.5	4.7	65	sW.	.....	.....	1	.....	8	sW.	s.	0.083	2.1	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.16	740.7	29.64	752.9	37.0	2.8	86	e.	.....	.....	1	.....	10	.....	.....	0	0	covered	**M. Grimard, Director.**
Clermont-Ferrand Obs'y	28.20	716.3	29.56	750.7	46.8	8.2	81	s.	.....	.....	1	.....	10	.....	.....	0 004	0.1	raining	M. Allnard, Director.
Cluny, Normal School	28.77	730 8	29.62	752.4	37.6	3.1	94	ne.	.....	.....	1	.....	10	.....	ne.	0.071	1.8	raining	M. de Villemontée, Dir.
Commercy, Normal School	28.84	732.6	29.73	755.2	33.4	0.8	92	e.	.....	.....	1	.....	5 cn	e.	e.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.05	687.0	29.62	752.4	38.3	3.5	83	.....	.....	.....	.....	.....	10 n	.....	.....	0.992	25.2	.....	M. Jeangirard, Director.
Gréusque, du Rhone	28.52	724.5	29.66	753.4	45.9	7.7	94	ne.	.....	.....	2	.....	10	.....	sW.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	28.91	734.2	29.70	754.4	36.7	2.6	83	ese.	.....	.....	1	.....	10 kn	.....	s.	.....	.....	raining	M. Ablard, Director.
Guéret	28.00	711.1	29.59	751.6	42.1	5.6	88	sSW.	.....	.....	1	.....	kn	.....	sW.	0	0	.....	**M. Delorme, Dir.**
Lamballe, Normal School	29.13	740.0	29.40	746.8	43.5	6.4	82	sse.	.....	.....	3	.....	5	.....	sse.	0.08	2.	cloudy	M. Olhrault, Director.
Lescar, Normal School	28.87	733 4	29.43	747.5	59.0	15.0	41	W.	.....	.....	1	0	5 8	.....	.....	0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.26	743 2	29.36	745 8	50.4	10.2	84	se.	.....	.....	4	.....	10	8	se.	0.012	0.3	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.57	725.7	29.64	752.8	43.3	6.3	79	e.	.....	.....	1	.....	10 n	.....	sse.	0.157	4.0	light rain	M. André, Director.
Mans, Normal School	29.24	742.7	29.56	750.7	42.3	5.7	89	se.	.....	.....	3	.....	8	.....	se.	0.31	8.	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.36	745.7	29.63	752.5	51.6	10.9	86	ese.	.....	.....	4	.....	10	.....	ese.	0.783	19.9	raining	M. Stephan, Director.
Montlouis	24.36	618.7	29.20	741.7	35.6	2.0	99	w.	15.0	6.7	.....	.....	7	sW.	.....	0.307	7.8	.....	**M. Caré for Dr. Finas.**
Montpellier, Normal School	29.57	751.0	29.70	754.3	51.1	10.6	100	sSW.	.....	.....	4	.....	5	.....	sse.	0.75	19.	raining	M. Galzin, Director.
Nancy, Normal School	28.91	734.4	29.72	755.0	34.9	1.6	78	nne.	.....	.....	1	ck	0	.....	.....	0.295	7.5	.....	M. Basse, Director.
Nantes, Observatory	29.32	744.6	29.48	748.7	51.3	10.7	76	sE.	.....	.....	1–2	.....	9n,kn	.....	se	0.189	4.8	.....	M. Larocque, Director.
Perpignan, Observatory	29.39	746.4	29.58	749.2	56.9	13.7	74	nw.	11.2	5.0	.....	.....	10	.....	sW.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	20.75	527.0	.....	.....	18.7	— 7.4	.....	sW.	.....	.....	2–3	.....	5	.....	sW.	0.079	2.0	cloudy	**M. Vaussenat.**
Privas, Normal School	28.57	725.7	29.65	753.0	46.0	7.8	89	s.	.....	.....	1	.....	10	8.	8.	1.18	30.	covered	M. Talhen.
Puy de Dôme Obs'y, Summit	24.66	626.4	.....	.....	32.5	0.3	98	sSW.	.....	.....	6	.....	10	.....	.....	0	0	hazy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.42	747.2	29.45	748.0	52.9	11.6	78	se.	.....	.....	1	.....	5	.....	sse.	0.08	2.	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.21	741.9	29.43	747.4	49.6	9.8	84	sse.	.....	.....	1	.....	2	.....	s.	1.22	31.	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.37	695.3	29.53	750.0	44.6	7	85	se.	.....	.....	1	.....	8	.....	e.	0	0	.....	M. Seger, Director.
Rouen, Normal School	29.55	750.6	29.60	751.8	41.4	5.2	84	se.	.....	.....	2	.....	8	se	.....	0.114	2.9	very cloudy	M. Moutiot.
Saint Lô	.....	.....	.....	.....	45.1	7.3	83	se.	.....	.....	1	.....	5	.....	se.	0.008	0.2	cloudy	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.42	747.3	29.59	751.5	40.5	4.7	87	se.	.....	.....	2	.....	10	.....	s.	0.173	4.4	.....	M. Renou, Director.
Toulouse, Observatory	28.84	732.5	29.55	750.6	51.6	10.9	81	sSW.	.....	.....	1	.....	5	W.	.....	0	0	cloudy	M. Baillaud, Director.
Tours	29.33	745.0	29.51	749.5	43.5	6.4	94	e.	.....	.....	1	.....	10	.....	sse.	0.193	4.9	raining	M. de Tastes.
Versailles, Observatory	29.08	738.5	29.57	751.0	38.8	3.8	87	se.	.....	.....	2	.....	.....	.....	.....	0.931	0.8	.....	Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	29.38	746.2	29.53	750.0	54.9	12.7	48	sw.	15.7	7.0	.....	0	7 k	.....	w.	0	0	.....	**M. Cartier, Director.**
GERMAN.																			
Ansbach	28.49	721.3	29.92	759.9	28.4	— 2.0	65	e.	.....	.....	4	.....	3	e.	.....	0	0	.....	**Prof. Jnedt.**
Bamberg	29.01	736.9	29.85	758.2	32.9	0.5	59	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	29.92	760.0	30.08	763.9	27.9	— 2.3	100	se.	.....	.....	2	.....	10	.....	.....	0.008	0.2	foggy	**Dr. Lensch.**
Breslau	29.51	749.5	30.04	763.0	27.7	— 2.4	96	nnw.	.....	.....	2	.....	10	.....	.....	0	0	light fog	Royal University Obs'y.
Carlsruhe	29.33	745.0	29.78	759.5	32.7	0.4	63	ne.	.....	.....	1	.....	10	sW.	.....	0	0	.....	Albert Senz.
Cassel	29.13	740.5	29.85	758.1	30.6	— 0.8	64	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.47	748.4	29.85	758.1	33.1	0.6	51	ene.	.....	.....	2	.....	7	.....	.....	0	0	.....	**Physical Society.**
Friedrichshafen	28.28	718.2	29.76	756.0	33.1	0.6	66	ne.	.....	.....	1	.....	10	wsw.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	29.99	760.9	30.05	763.2	25.3	— 3.7	100	ese.	.....	.....	2	.....	10	.....	.....	0	0	foggy	E. Preller.
Kiel	30.04	763.1	30.06	763.5	30.7	— 0.7	95	e.	.....	.....	4	.....	10	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.58	751.2	30.02	762.5	26.2	— 3.2	70	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	29.82	757.4	30.02	762.4	26.1	— 3.3	87	ene.	.....	.....	1	0	7 ks	.....	e.	0	0	foggy	**Weather Observatory.**
Memel	30.06	763.4	30.10	764.6	25.5	— 3.6	91	nne.	.....	.....	3	.....	10 k	.....	.....	.....	.....	.....	Isermann.
Munich	27.98	710.8	29.84	757.8	30.0	— 1.1	82	ne.	.....	.....	2	.....	5	nW.	.....	0	0	.....	**Central Station.**
Neufahrwasser	30.08	763.9	30.09	764.3	34.5	1.4	71	n.	.....	.....	2	.....	9	.....	.....	0.059	1.5	.....	A. Lothes.
Neustadt, Palatinate	29.24	742.7	29.76	756.0	31.6	— 0.2	94	calm	.....	.....	0	.....	9	.....	.....	0	0	.....	Dicknether.
Stuttgart	28.82	732.0	29.74	755.5	32.9	0.5	90	ne.	.....	.....	2	.....	9	W	.....	0	0	foggy	**Prof. Dr. Schoder.**
Wustrow	30.08	764.1	30.11	764.7	32.4	0.2	92	ese.	.....	.....	1	.....	10	.....	.....	0	0	.....	**Profs. Brandes & Reimer.**
GREEK.																			
Athens	29.60	751.7	29.98	761.6	55.9	13.3	.....	sw.	.....	.....	1.0	.....	8	.....	.....	inap.	inap.	misty	**Schmidt & Wourlisch.**
INDIAN.																			
Kurrachee	30.13	765.4	30.18	766.7	76.4	24.7	44	ene.	25.0	11.2	.....	.....	5	.....	.....	0	0	d. clouds	
Deesa	29.58	751.4	30.07	763.7	76.5	24.7	27	n.	9.0	4.0	.....	.....	2	sW.	.....	0	0	d. clouds	
Bombay	29.93	760.2	29.97	761.2	80.7	27.1	68	nnw.	17.0	7.6	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.11	713.9	29.96	761.1	80.2	26.8	28	ene.	6.0	2.7	.....	.....	3	wsw.	.....	0	0	d. clouds	
Belgaum	27.41	696.2	29.94	760.5	78.9	26.1	42	ene.	5.0	2.2	.....	.....	8	sW.	.....	0	0	d. clouds	
Lahore	29.42	747.4	30.20	767.2	62.4	16.9	69	calm	0	0	.....	.....	0	.....	.....	0.26	6.6	blue sky	
Roorkee	29.21	742.0	30.15	765.7	64.8	18.2	53	calm	0	0	.....	.....	0	.....	.....	0.15	3.8	.....	
Agra	29.57	751.0	30.15	765.9	68.2	20.1	52	e.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.99	736.3	30.04	763.0	77.7	25.4	43	s.	3.0	1.3	.....	.....	2	W.	.....	0	0	d. clouds	
Jubbulpore	28.71	729.1	30.09	764.3	71.8	22.1	61	n.	6.0	2.7	.....	.....	3	n.	.....	0.14	3.6	d. clouds	
Lucknow	29.74	755.3	30.13	765.2	67.3	19.6	77	calm	0	0	.....	.....	0	.....	.....	0.02	0.5	blue sky	
Allahabad	29.78	756.3	30.10	764.6	64.6	18.1	89	nw.	2.0	0.9	.....	.....	10	.....	.....	0.11	2.8	blue sky	
Patna	29.90	759.6	30.10	764.5	66.0	18.9	87	s.	2.6	1.2	.....	.....	4	s.	s.	0	0	d. clouds	
Hazaribagh	28.02	711.6	30.10	764.6	62.9	17.2	77	calm	5.2	2.3	.....	.....	0	.....	.....	0.14	3.6	drizzling	
Cuttack	29.99	761.7	30.07	763.8	75.0	23.9	60	calm	0	0	.....	.....	5	.....	.....	0	0	d. clouds	
Calcutta, Alipore	30.07	763.8	30.10	764.4	65.3	18.5	81	nne.	0.5	0.2	.....	.....	3	.....	.....	0	0	d. clouds	
Dhubri	29.96	760.8	30.08	764.0	62.5	16.9	93	ne.	8.2	3.7	.....	.....	8	sW.	.....	0.01	0.3	d. clouds	
Chittagong	29.98	761.6	30.08	764.0	68.6	20.3	75	sw.	2.2	1.0	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.75	755.7	30.11	764.7	61.2	16.2	86	ne.	2.0	0.9	.....	.....	2	.....	.....	0	0	blue sky	
Zanzibar	29.78	756.3	29.80	756.8	85.3	29.6	67	ene.	9.3	4.2	.....	.....	4	.....	ne.	0	0	d. clouds	
Jeypore	28.64	727.6	30.13	765.3	68.7	20.4	57	ne.	2.9	1.3	.....	.....	3	.....	ne.	0	0	d. clouds	
Bellary	28.50	723.9	.....	.....	80.0	26.7	34	e.	4	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.73	755 1	.....	.....	79.5	26.4	63	ene.	1	0.4	.....	.....	4	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.58	751.3	30.00	762.0	37.2	2.9	52	calm	0	0	.....	.....	10	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.45	748.0	29.99	761.8	32.9	0.5	90	e.	0.7	0.5	.....	.....	10	.....	.....	0.071	1.8	.....	Prof. Schiapparelli.
Padua	29.87	758.8	29.99	761.7	33.3	0.7	87	n.	1.3	0.6	.....	.....	10	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.04	737.5	29.98	761.5	32.9	0.5	92	ene.	0	0	.....	.....	10	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.67	753.7	29.87	758.6	37.9	3.3	78	ne.	13.0	5.8	.....	.....	10	s.	.....	0.508	12.9	.....	Prof. G. M. Garibaldi.
Mondovi	28.00	711.2	30.00	762.0	33.8	1.0	77	w.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.95	760.6	30.00	761.9	30.9	— 0.6	93	w.	0	0	.....	.....	10	.....	.....	0.142	3.6	.....	Prof. Luigi Guidi.
Florence	29.61	752.2	29.88	758.9	41.4	5.2	92	se.	.....	.....	2	.....	10	.....	.....	0.157	4.0	.....	Prof. Costantino Pittei.
Leghorn	29.77	756.1	29.85	758.3	43.0	6.1	95	ene.	14.3	6.4	.....	.....	10	.....	.....	0.130	3.3	.....	Prof. P. Monte.
Rome	29.71	754.5	29.88	759.0	54.0	12.2	70	wnw.	2.5	1.1	.....	.....	10	.....	.....	0.047	1.2	.....	Prof. P. Tachini.
Lecce	29.72	754.8	29.98	761.4	51.8	11.0	71	ne.	0.3	2.8	.....	.....	8	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.08	738.6	29.99	761.8	51.8	11.0	75	sw.	2.5	1.1	.....	.....	10	sw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.53	750.1	29.73	755.1	58.3	14.6	80	ssw.	.....	.....	4	.....	10	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.66	751.7	29.85	758.1	61.5	16.4	61	calm	0	0	.....	.....	10	.....	.....	0	0	.....	Prof. G. Caccintore.
Syracuse	29.91	759.7	29.95	760.8	58.5	14.7	84	ne.	3.1	1.4	.....	.....	10	s.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.38	746 3	29.91	759.8	54.3	12.4	72	n.	0	0	.....	.....	10	sw.	.....	0.008	0.2	.....	Prof. F. Brioschi.
Stelvio	21.89	556.0	.....	.....	23.0	— 5.0	88	sw.	.....	.....	2	.....	10	.....	.....	0	0	covered	Prof. P. F. Denza.
Valdobbia	21.91	556.4	.....	.....	22.3	— 5.4	68	e.	.....	.....	2	.....	10	.....	.....	0.394	10.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.81	757.1	29.84	757.9	34.4	1.3	71	nw.	.....	.....	2	0	3 ck	.....	nw.	0.126	3.2	fair	Hattori.
Awomori	29.73	755 2	29.77	756.2	28.6	— 1.9	74	sw.	17.5	7.8	.....	0	0	.....	.....	0.440	11.3	clear	K. Ogawa.
Hakodate	29.70	754.4	29.71	754.7	29.9	— 1.2	84	w.	24.0	10.7	.....	0	0	.....	.....	0	0	cloudy	
Hamamatsu	29.92	759.9	29.94	760.6	43.8	6.6	78	calm	.....	.....	0	0	0	.....	.....	0.008	0.2	clear	
Kagoshima	30.12	765.1	30.13	765.4	43.8	6.6	90	n.	.....	.....	2	2 ck	0	.....	.....	0.035	0.9	clear	G. Miyanohaza.
Kioto	29.89	757.4	30.00	762.1	33.1	0.6	97	nw.	0.0	0.3	.....	0	0	.....	.....	0	0	clear	M. Tojima.
Kochi	30.05	763.3	30.07	763.8	45.1	7.3	78	ne.	5.3	2.3	.....	0	0	.....	.....	0	0	clear	K. Kusunose.
Miasaka	30.08	764.0	30.11	764.7	48.1	8.9	71	wnw.	.....	.....	2	0	0	.....	.....	0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	29.94	760.4	30.15	765.8	43.1	6.2	72	n.	0.9	0.4	.....	0	4 8	.....	nw.	0.020	0.5	clear	S. Takehayashi.
Niigata	29.83	757.7	29.80	758.4	42.3	5.7	72	wnw.	24.1	10.7	.....	0	8 ck	.....	w.	0.240	6.1	cloudy	M. Morita.
Nobiru	29.75	755.7	29.77	756.1	37.1	2.8	73	nw.	13.8	6.2	.....	0	9 8	.....	.....	0	0	cloudy	H. Midzushima.
Numazu	29.80	757.0	29.84	757.9	51.1	10.6	58	ssw.	.....	.....	6	0	0	.....	.....	0.055	1.4	clear	R. Kaneda.
Sakai	30.01	762.3	30.02	762.6	40.9	4.9	73	w.	.....	.....	2	0	1 ks	.....	w.	0.083	2.1	fair	K. Yamawchi.
Sapporo	.....	.....	.....	.....	22.0?	—5.0?	80	calm	0	0	.....	.....	10	.....	.....	0.045	1.1	covered	
Tokei Obs'y, Yeddo	29.74	755.4	29.81	757.3	41.2	5.1	69	nnw.	1.8	0.8	.....	0	0	.....	.....	0.010	0.3	clear	The Staff.
Wakayama	29.97	761.3	30.03	762.7	45.3	7.4	78	nw.	1.8	0.8	.....	0	0	.....	.....	0	0	clear	Y. Kuwamura.
Osaka	30.00	762.0	30.02	762.4	43.4	6.3	80	sw.	0.1	2.7	.....	.....	9 8 ks	.....	w.	0	0	cloudy	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.73	755.1	29.92	760.0	82.5	28.1	57	ne.	14.0	6.5	.....	0 C,cs	2 k	wsw.	ne.	0.05	1.3	cloudy	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	52.5	11.4	90	nw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	dense fog	H. Diaz Pena.
Guanajuato	23.73	602.7	29.95	760.7	48.9	9.4	38	ne.	inap.	inap.	.....	0	0	.....	.....	0	0	clear	Prof. Vicente Fernandez.
Leon	24.43	620.5	30.41	772.4	37.4	3.0	80	n.	.....	.....	1	0	0	.....	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.78	756.4	30.04	763.1	64.0	17.8	43	ese.	1.0	0.8	.....	0	0	.....	.....	0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.18	588.7	30.40	773.6	30.5	2.5	100	calm	0	0	.....	10 n	0	.....	.....	0.020	0.5	covered	The Staff.
Morelia	24.45	621.0	30.35	770.9	43.3	6.3	75	e.	.....	.....	2	0	0	.....	.....	0	0	fine	M. Tena, M. D.
Puebla, Catholic Institute	23.43	595.1	30.50	774.8	35.1	1.7	.....	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
Zacatecas	22.58	573.5	30.41	772.3	37.8	3.0	70	ne.	2.6	1.2	.....	0	0	.....	.....	0	0	blue sky	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.72	755.0	29.72	755.0	36.3	2.4	.....	e.	.....	.....	4	.....	.....	.....	.....	0 031	0 8	.....	
Groningen	29.80	758.4	29.91	759.8	27.3	— 2.6	.....	ese.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Hellevoetsluis	29.74	755.4	29.74	755.4	34.9	1.6	85	e.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	29.75	755.6	29.80	756.8	37.4	3.0	82	e.	.....	.....	3	.....	2	.....	.....	0	0	lightly cld'y	H. van der Brink
Sub-series.																			
Batavia, Java	29.89	759.3	.....	.....	78.3	25.7	89	n.	0	0	.....	.....	8	.....	.....	5.24	133.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.05	763.3	30.11	764.9	33.8	1.0	68	sse.	2	1	.....	.....	2	.....	.....	0	0	.....	
Brono	30.11	764.9	30.15	765.9	29.8	— 1.2	84	calm	0	0	.....	.....	10	.....	.....	0	0	.....	
Christiania	30.07	763.8	30.23	767.8	23.4	— 4.8	98	sw.	0	0	.....	.....	0	.....	.....	0	0	foggy	
Gjesvær	29.92	760.0	29.95	760.6	30.2	— 1.0	.....	w.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	
Lodtugen	30.05	763.3	30.10	764.5	30.0	— 1.1	80	sw.	.....	.....	4	.....	10	.....	.....	0.343	8.7	snowing	
PORTUGUESE.																			
Angra, Azores	29.67	753 6	29.83	757.6	56.1	13.4	84	nw.	0.3	2.8	.....	.....	5	.....	.....	0.118	3.0	.....	Dr. J. A. Sampaio.
Ampo Major	28.69	726.6	29.69	754.1	52.7	11.5	85	sw.	15.0	5.8	.....	.....	0	.....	.....	0.079	2.0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	29.80	756.8	29.88	759.0	62.1	16.7	75	nnw.	15.4	6.9	.....	.....	10	.....	.....	0.020	0.5	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.25	742.9	29.01	752.0	50.1	15.4	71	s.	23.7	10.6	.....	.....	0	.....	.....	0.331	8.4	.....	The Staff.
Ponta Delgada, Azores	29.03	757.6	29.90	759 4	57.9	14.4	61	calm	0	0	.....	.....	3	.....	.....	0.028	0.7	.....	
Saint Paul de Loando	29.04	752.9	29.84	758.0	77.4	25.2	93	w.	1.8	0.8	.....	.....	8	.....	.....	0	0	.....	
Serra da Estrella	24.85	631.2	29.05	753.0	34.7	1.5	88	s.	18.1	8.1	.....	.....	10	.....	.....	.....	.....	foggy	
RUSSIAN.																			
Akmolinski	28.80	731.4	29.98	761.4	8.4	—13.1	100	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	.....	Major K. Lasarew.
Archangel	30.17	766.2	30.19	766.7	—26.0	—32.2	77	nnw.	2	1	.....	.....	10	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashuradn	30.19	766.7	30.09	764.3	51.3	10.7	76	ese.	4	2	.....	0	3 ks	.....	.....	blank	blank	.....	
Astrakhan	29.88	759 0	29.80	756.9	31.3	— 0.5	83	sw.	16	7	.....	.....	10 8	.....	.....	0.008	0.2	.....	Capt. Wisganow.
Baku	29.97	761.3	29.93	760.1	43.2	6.2	40	sw.	31	14	.....	4 cs	0	.....	.....	0	0	.....	
Barnaul	29.04	752.9	30.19	766.9	7.9	—13.4	77	calm	0	0	.....	.....	4	.....	.....	0	0	.....	Meteorological Obs'y.
Bielosersk	29.40	746.8	29.91	760.4	—13.7	—25.4	86	nw.	9	4	.....	7 c	0	.....	.....	0.008	0.2	.....	
Dorpat	29.86	758.5	30.14	765 5	— 2.9	—19.4	87	n.	36	16	.....	0	0	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.85	732.9	29.89	759.1	— 4.4	—19.1	88	e.	9	4	.....	.....	10	.....	.....	0.102	2.6	snowing	Meteorological Obs'y.
Elisawetgrad	29.25	742 9	29.72	754.8	26.2	— 3.2	87	nw.	4	2	.....	.....	10 n	.....	.....	0	0	.....	
Irkutsk	28.70	728.9	30.53	775.5	2.3	—16.5	89	calm	.....	.....	0	.....	8	.....	.....	0	0	.....	
Kasan	29.11	739.5	29.41	746.9	5.4	—14.8	78	se.	16	7	.....	.....	10	.....	.....	0.010	0.4	light snow	Observatory.
Kem	30.10	764.0	30.15	765.9	— 7.2	—21.8	86	calm	0	0	.....	0	8 ks	.....	.....	0	0	.....	
Kertch	29.77	756.1	29.79	756.6	34.0	1.1	90	nw.	7	3	.....	.....	9 n	.....	.....	0	0	.....	
Kief	29.01	736.8	29.68	753.8	22.3	— 5.4	78	nw.	7	3	.....	.....	10 n	.....	.....	0.016	0.4	snowing	Lagorio & Sastyrez.
Koslov	29.03	737 4	29.64	752.8	—19.3	—28.5	84	wsw.	4	2	.....	0	0	.....	.....	0	0	.....	Observatory.
Libau	30.07	763.7	30.09	764.3	25.0	— 3.9	77	ene.	9	4	.....	.....	10	.....	.....	0	0	.....	
Lugan	29.38	746.2	29.58	751.4	7.2	—13.8	83	nne.	9	4	.....	.....	10	.....	.....	0.079	2.0	.....	E. Quaas.
Moscow	29.11	739 3	29.67	753.5	—16.8	—27.1	81	nw.	3.4	1.5	.....	1 c	0	.....	.....	blank	blank	solar corona	Meteorological Obs'y.
Nikolaiev	30.87	784.0	30.94	785.9	31.3	— 0.4	83	w.	9	4	.....	cs	8 n	.....	.....	0	0	light clouds	
Nikolaievsk-on-the-Amoor	29.48	748.9	29.57	751.1	— 9.4	—23.0	76	calm	0	0	.....	.....	10	.....	.....	0.071	1.8	.....	Capt Kurdakow.
Pekin, China	30.02	762.5	30.10	766.1	31.1	— 0.5	30	calm	0	0	.....	c	0	.....	.....	0	0	.....	Iwanow.
Petrozavodsk	29.87	758 0	30.10	764.5	—17.9	—28.3	77	nnw.	7	3	.....	0	0	.....	.....	0	0	.....	[illegible] Observatory.
Pinsk	29.29	743.9	29.81	757.2	23.4	— 4.8	81	nw	18	8	.....	.....	10 8	.....	.....	0.004	0.1	snowing	Dr. Bergmann.
Poti	29.98	761 4	30.00	761.9	34.3	1.3	85	e.	4	2	.....	.....	10 n	.....	.....	0.003	1.6	snowing	
St. Petersburg	30.07	763.8	30.09	764.2	— 9.0	—22.8	86	ne.	4	2	.....	1 cs	0	.....	.....	0.003	1.6	solar corona	Central Physical Obs'y.
Samarkand	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Sevastopol	29.59	751.5	29.75	755.7	37.9	3.3	78	wnw.	40	18	.....	.....	10 n	.....	.....	0.020	0.5	heavy clouds	
Semipalatinsk	29.59	749 2	30.19	766.9	20.5	— 6.4	74	e.	4	2	.....	.....	4	.....	.....	0	0	.....	Major Lasarew.
Starol Bykhov	29.30	744.3	29.81	757.2	0.3	—17.6	67	ne.	27	12	.....	.....	10 k	.....	.....	0.083	2.1	snow-drift	
Tiflis	28.00	720.4	30.00	762.0	39.9	4.4	41	calm	0	0	.....	5 ck	0	.....	.....	0	0	.....	Physical Observatory.
Tomsk	29.80	756.9	30.11	764.8	— 0.2	—17.9	82	calm	0	0	.....	.....	0	.....	.....	.....	.....	.....	
Vlatka	29.10	739.1	29.78	756.5	4.3	—15.4	.....	e.	7	3	.....	.....	10	.....	.....	0.047	1.2	snowing	
Warsaw	29.54	750.2	29.98	761.4	29.8	— 1.2	69	n.	13	0	.....	1 cs	0	.....	.....	0	0	light clouds	Astronomical Obs'y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Wilna	29.50	749.2	29.95	760.8	14.5	— 9.7	77	ne.	9	4			10			0	0	heavy clouds	Berg, Assistant.
Yeniseisk	30.05	763.5	30.39	771.8	— 8.5	—22.5	80	ne.	7	3			2			0.028	0.7		M. O. Marks.
Scottish.																			
Monach Lt			29.66	753.4	44	6.7	92	ese.			6		10			0	0	overcast	J. Youngclause.
North Unst			30.11	764.8				se.			6		10					hazy	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.55	750.6	29.65	753.2	55.4	13.0	64	w.	4.3	1.9		0	3			0.110	2.8		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.52	749.7	29.58	751.2	52.3	11.3	77	w.	8.1	3.6		1	8	se.		0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.66	677.1	29.68	753.9	40.5	4.7	73	s.	15.4	6.7			9			0.197	5.0	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.50	698.4	29.76	755.8	44.6	7.0	82	sw.	19.2	8.6			10			0.354	9.0	covered	The Staff.
Murcia, Met. Obs'y	29.62	752.3	29.76	755.9	63.0	17.2	72	sse.	0.9	0.4		2	6	e.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	28.57	725.6	29.45	747.9	51.8	11.0	88	se.	19.2	8.6		5 n	5 k	ne.	e.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.47	723.0	29.35	745.4	51.1	10.6	100	s.	23.0	10.3			10			1.213	30.8	raining	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.97	761.2	30.02	762.6	78.0	25.6	70	nne.	7.4	3.3		0	0			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.76	755.8	29.86	758.3	59.7	15.4	76	s.	13.4	6.0			9		s.	0.429	10.9		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.02	762.6	30.11	764.9	73.4	23.0	92	calm	0	0		1 s	4 k	e.	e.	0	0	clear	Manuel Maese.
Swedish.																			
Haparanda	30.15	765.9	30.19	766.9	6.1	—14.4	100	n.			2		0			0	0		
Umea	30.15	765.7	30.20	767.0	10.0	—12.2	93	nnw.			2		1			0	0		
Hernosand	30.17	766.2	30.22	767.5	17.6	— 8.0	88	calm			0		0			0	0		
Stockholm	30.00	761.9	30.17	766.4	28.8	— 1.8	72	nne.			2		10			0	0		
Wisby	30.04	763.0	30.10	764.5	32.0	0.0	89	nne.			4		10			0	0		
Sub-series.																			
Upsala	30.08	764.1	30.17	766.3	24.4	— 4.2	100	nnw.	6.0	2.7			10		nne.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28.30	718.7	29.78	756.5	34.7	1.5	79	sw.			2		10			0.083	2.1	foggy	The Observatory.
Turkish.																			
Constantinople			29.99	761.7	44.2	6.8	82	nw.	3	1.5			10		sw.	0	0		The Observatory.
Valona			30.03	762.7	48.9	9.4		nw.			1		10			0.31	8.	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.02	762.5	55.0	12.8	98	sw.			1		10 n		sw.	1.08	27.4		Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.60	675.6			36	2.2	72	nw.			1		10 c		se.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.68	753.9	29.77	756.1	5	—15.0	76	n.	11	4.9			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	28.98	736.1	29.09	754.1	17	— 8.3	83	se.	8	3.6			10 n			inap.	inap.	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.27	641.8	30.39	771.9	18	— 7.8	73	ne.	1	0.4		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.35	694.7	30.39	771.9	17	— 8.3	70	ne.	5	2.2			10 s		w.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.66	728.0	29.89	759.2	21.5	— 5.8	78	w.	12	5.4		2 k	6 s			0.51	13.0	cloudy	H. C. Smith.
Atlantic City, New Jersey	29.43	747.5	29.44	747.8	21	— 6.1	84	n.	22	9.8			10 n			0.81	20.6	heavy snow	Jas. M. Watson.
Augusta, Georgia	29.68	753.9	29.88	758.9	33	0.6	54	w.	15	6.7			10 s		w.	0.57	14.5	cloudy	John Healy.
Baltimore, Maryland	29.58	751.3	29.63	752.6	22	— 5.6	88	n.	4	1.8			10 n			0.16	4.1	light snow	Geo W Felger.
Barnegat, New Jersey	29.41	747.0	29.43	747 5	25.0	— 3.9	100	ne.	44	19.7			10 n			0.11	2.8	heavy snow	G. A. Hill.
Behring Id., Behring Sea	29.37	746.0	29.39	746.5	27.3	— 2.6		n.	6	2.7			10 n			0.04	1.0	cloudy	Leonard Stejneger.
Bennett, Fort, Dakota	28.52	724.4	30.26	768.6	24	— 4.4	76	nw.	16	7.2		0	0			0	0	clear	A. Pritchard
Benton, Fort, Montana	27.33	694.2	30.31	769.9	29	— 1.7	67	ne.	2	0.9			10 s		ne.	0	0	cloudy	S. Wheaton.
Billings, Montana	26.99	685.5			30	— 1.1		ne.	3	1.3		0	8 s			0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.22	716.8	30.21	767.3	22	— 5.6	73	n.	21	9.4			10 s			inap.	inap.	cloudy	Cyrus Cramer
Block Island, Rhode Island	29.41	747.0	29.44	747.8	22	— 5.6	88	ne.	51	22.8			10 n		ne.	0.13	3.3	light snow	J. T. Elker
Boise City, Idaho	27.28?	692.9?	30.21?	767.3?	16	— 8.9	91	nw.	2	0.9		0	4 s			0	0	fair	B. E. Light
Boston, Massachusetts	29.47	748.5	29.64	752.8	10.9	—12.2	80	n.	27	12.1			10 n			0.06	1.5	light snow	O. B. Cole.
Brownsville, Texas	30.21	767.3	30.26	768.6	38.6	3.7	73	sw.	8	3.6		0	0			0	0	clear	M. McCarty.
Buffalo, New York	28.96	735.6	29.76	755 9	7	—13.9	87	ne.	5	2.2			10 s		ne.	inap.	inap.	cloudy	W. Finn.
Buford, Fort, Dakota	28.21	716 5	30.41	772.4	13	—10.6	83	n.	12	5.4		0	0			inap.	inap.	clear	F. A. Mellen.
Burlington, Vermont	29.57	751.1	29.88	758.9	— 8.0	—22.2	91	n.	9	4.0			10 s		n.	inap.	inap.	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.36	745.7	29.78	756.4	29.0	— 1.7	82	w.	13	5.8		0	5 s		w.	0.02	0.5	fair	W. H. Ray.
Cape Henry, Virginia	29.51	749.5	29.53	750.0	25	— 3.9	100	nw.	36	16.1			10 s			0.04	1.0	cloudy	A. K. Alderson.
Cape May, New Jersey	29.46	748 3	29.49	749.0	22.0	— 5.6	80	n.	34	15.2			10 n			0.55	14.0	light snow	W. E. Smith.
Cape Mendocino, California	29.48	748.8	30.18	766.6	47	8.3	63	se.			1	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	29.93	760.2	29.95	760.7	40	4.4	57	nw.	23	10.3		0	0			1.72	43.7	clear	F. W. Mixer.
Champaign, Illinois	28.65	727.7	29.52	749.8	27.0	— 2.8	77	nw.	18	8.0			10 n		nw.	0.08	2.0	light snow	L. A. Welsh.
Charleston, S. Carolina	29.73	755 1	29.79	756.7	36	2.2	69	w.	16	7.2		0	8 s		w.	1.02	25.9	cloudy	J. H. Smith.
Charlotte, N. Carolina	28.82	732.0	29.71	754.6	25.0	— 3.9	88	sw.	4	1.8		10 cs	0	sw.		0.44	11.2	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	28.99	736.3	29.85	758.2	27.0	— 2.8	77	sw.	10	4.5			10 s		sw.	0.19	47.8	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.10	612.1	30.35	770.9	30.8	— 0.7	54	w.	3	1.3		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	28.68	728.5	29.43	747.5	20.2	— 6.6	83	s.	8	3.6			8 n			0.04	1.0	light snow	J. Mitchell.
Chincoteague, Virginia	29.45	748.0	29.47	748.5	20	— 6.7	84	n.	36	16.1			10 n		nw.	0.12	3.0	light snow	C. F. Dickens.
Cincinnati, Ohio	28.97	735 8	29.66	753.4	23	— 5.0	88	sw.	9	4.0			10 n		sw.	inap.	inap.	light snow	R. B. Watkins.
Cleveland, Ohio	28.88	733.5	29.66	753 4	7.3	—13.7	87	se.	7	3.1			10 s			0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.42	721.9	30.30	769.6	38	3.3	73	n.	5	2.2		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	28.77	730 7	29.67	753.6	13	—10.6	80	n.	4	1.8		hz.	4 s			0	0	fair	D. Cuthbertson.
Concho, Fort, Texas	28 27	718.0	30.29	769.4	29.2	— 1.6	80	calm	0	0		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	28.83	732.3	29.54	750.3	20	— 6.7	70	nw.	24	10.7			10 n			0.09	2.3	light snow	W. B. Lamar.
Davis, Fort, Texas	25.34	643.6	30.32	770.1	28	— 2.2	80	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington Ty	28.55	725.2	30.35	770.9	35	1.7	82	ne.	4	1.8		0	0			0.01	0.3	clear	D. Moore.
Deadwood, Dakota	25.41	745.4	30.35	770 9	27	— 2.8	88	sw.	4	1.8			10 s			0	0	cloudy	F. Willson.
Delaware Breakwater, Del.	29.46	748.3	29.48	748.8	23	— 5.0	100	n.	40	17.9			10 n		n.	0.17	4.3	heavy snow	T. S. Townsend.
Denison, Texas	29.36	745.7	30.20	767.1	39.0	3.9	65	nw.	5	2.2		0	0			0	0	clear	J. W. Byram.
Denver, Colorado	24.83	630.7	30.35	770.9	47.0	8.3	38	w.	20	8.9		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.83	732.3	29.80	756 9	27	— 2.8	77	n.	18	8.0			10 n		n.	0.36	9.1	light rain	F. W. Conrad.
Detroit, Michigan	28 89	733.8	29.65	753 1	21.0	— 6.1	84	e.	8	3.6		0	9 k		e.	0.01	0.3	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.56	700.0	30.31	769.9	31	— 0.6	71	w.	14	6.3		0	0			0	0	clear	V. P. Temple.
Dubuque, Iowa	28 76	730.5	29.53	750.0	16	— 8.9	76	nw.	14	6.3			10 s			0.25	6.3	cloudy	J. Harvey Smith.
Duluth, Minnesota	28 81	731.8	29.62	752.3	11	—11.7	80	nw.	24	10.7		0	4 s		nw.	0.33	8.4	fair	N. B. Conger.
Eagle Pass, Texas	29.46	748.3	30.30	769.6	33.0	0.6	50	calm	0	0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.65	651.5	30.61	777.5	2	—16.7	76	n.	6	2.7		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.79	756.7	29.86	758.4	8.0	—13.3	76	ne.	21	9.4			10 s		ne.	0.01	0.3	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.39	695.7	30.32	770.1	32	0.0	62	nw.	8	3.6		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.48	672.6	30.36	771.1	29.0	— 1.7	80	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	28 94	735 1	29.71	754.6	8	—13.3	76	e.	3	1.3		0	5 s		e.	0.03	0.8	fair	Peter Wood.
Escanaba, Michigan	28.84	732.5	29.56	750.8	12.5	—10.8	89	n.	4	1.8			10 n		n.	0.04	1.0	light snow	George Heathcote.
Fredericksburg, Texas	28.46	722.0	30.28	769.1	39	3.9	65	s.	3	1.3		0	0			0	0	clear	Frank Hulwegler.
Galveston, Texas	30.14	765.5	30.19	766.8	44	6.7	93	w.	15	6.7		2 c	0			0	0	clear	E. O'C. Machernay.
Grand Haven, Michigan	28.79	731.3	29.50	749.3	15.0	— 9.4	83	e.	9	4.0			10 n		se.	0.04	1.0	light snow	J. E. Mueller.
Grant, Fort, Arizona	25.49	645.1	30.30	769.6	31.5	— 0.3	74	e.	4	1.8		5 cs	0	w.		0	0	fair	Robert C. Lord.
Hatteras, North Carolina	29.54	750 3	29.56	750.8	29	— 1.7	77	nw.	22	9.8			10 k		nw.	2.40	61.0	cloudy	R. M. Crawford.
Helena, Montana	25.94	658.9	30.37	771.4	39	3.9	73	sw.	3	1.3			10 s		calm	0	0	cloudy	N. C. Smith.
Henrietta, Texas																			J. P. Sherry.
Huron, Dakota	28.55	725.2	30.09	764.3	24.7	— 4.1	64	nw	21	9.4		0	4 s		nw.	inap.	inap.	fair	S. W. Glenn.
Indianapolis, Indiana	28.70	729.0	29.54	750.3	20	— 6.7	91	s.	5	2.2			10 n		s.	0.15	3.8	light snow	J. F. Jirdinston.
Indianola, Texas	30.20	767.1	30.23	767.8	39.4	4.1	70	w.	16	7.2		0	0			0	0	clear	I. A. Reed.
Jacksboro, Texas	29.05	737 9	30.29	769.4	38	3.3	53	n.	3	1.3		0	0			0	0	clear	D. J. Carr.
Jacksonville, Florida	29.94	760.5	29.99	761.7	39	3.9	73	w.	8	3.6		0	0			1.08	27.4	clear	J. W. Smith.
Keogh, Fort, Montana	27.72	704.1	30.41	772.4	25	— 3.9	76	se.	2	0.9			10 s			0	0	cloudy	A. Schneider.
Keokuk, Iowa	28.96	735.6	29.66	753.4	27.5	— 2.5	80	nw.	20	8.9		0	2 s		nw.	0.03	0.8	clear	F. Z. Gosewisch.

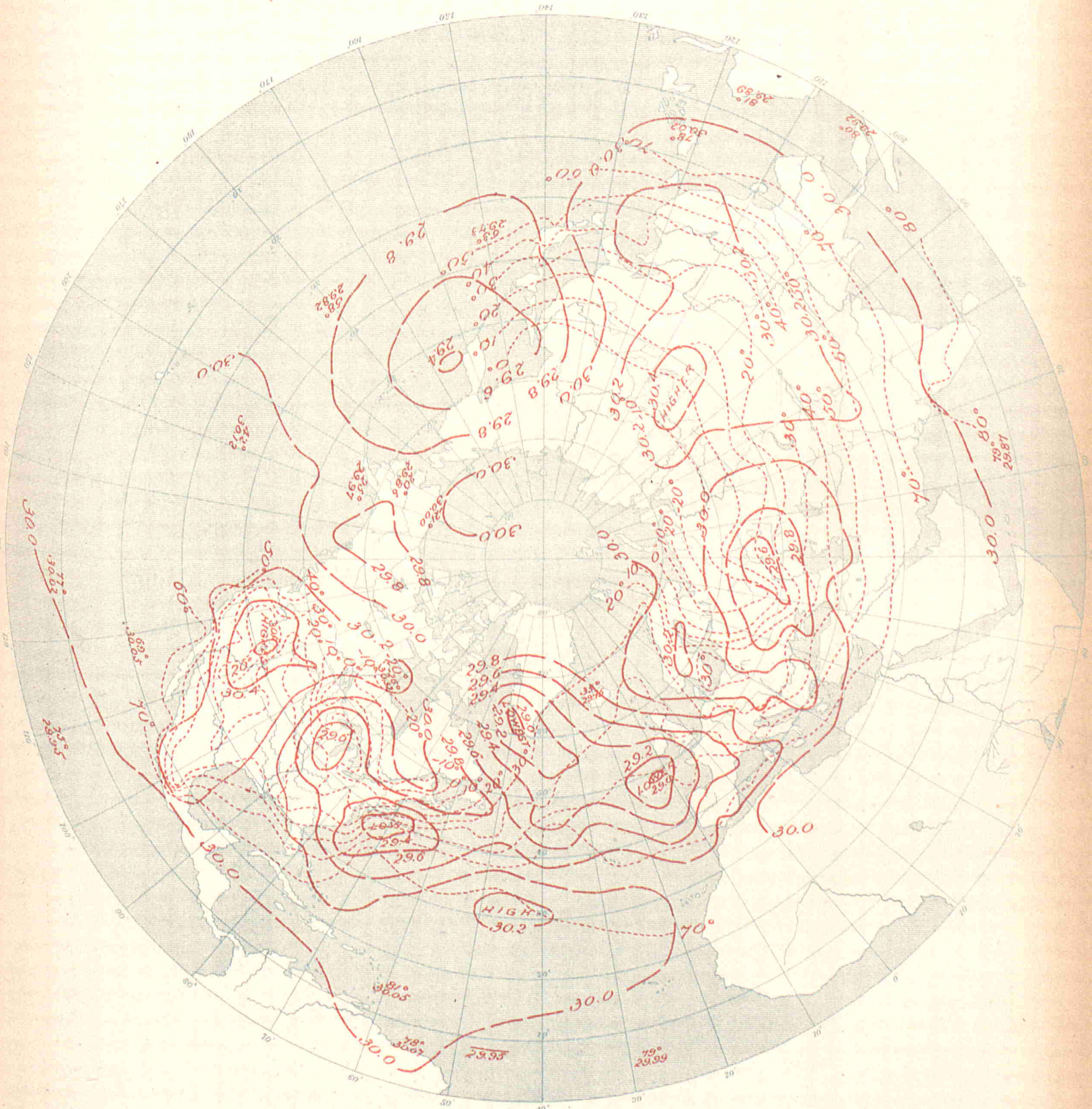
STATIONS	Barometer: Corrected for instrumental error and for temperature. Inch.	Barometer: Corrected for instrumental error and for temperature. Mill.	Barometer: Reduced to sea-level. Inch.	Barometer: Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.06	763.5	30.08	764.0	64.0	17.8	63	nw.	30	13.4			10 s		nw.	0.09	2.3	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	29.52	749.8	29.54	750.3	24	— 4.4	88	nw.	22	9.8			10 s		nw.	2.25	57.1	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	28.73	729.7	29.81	757.2	19.8	— 6.8	86	sw.	11	4.9			10 s			0.44	11.2	threatening.	J. A. Cody.
La Crosse, Wisconsin	28.72	729.5	29.56	750.8	12	—11.1	80	nw.	28	12.5			10 n			0.19	4.8	light snow..	S. C. Emery.
Leavenworth, Kansas	29.03	737.3	29.99	761.7	31	— 0.6	68	nw.	10	4.5		0	0			trap.	trap.	clear	A. W. Browne.
Lewiston, Idaho	29.58	751.3	30.45	773.4	29.5	— 1.4	90	ne.	1	0.4		0	0			0.04	1.0	clear	W. Bell.
Little Rock, Arkansas	29.67	753.6	30.00	762.0	38	3.3	82	nw.	10	4.5		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.75	755.6	30.15	765.8	58	14.4	42	ne.	12	5.4			10 s		ne.	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.04	737.6	29.62	752.3	27	— 2.8	77	s.	10	4.5			10 n			0.01	0.3	light snow..	L. M Dey.
Lynchburg, Virginia	28.92	734.6	29.64	752.8	23	— 5.0	80	w.	2	0.9		3 ck	5 s	w.		0.85	21.6	cloudy	Louis Duane.
Mackinaw City, Michigan	28.99	736.3	29.69	754.1	14.0	—10.0	64	se.	18	8.0		10 cs	0	so.		0.04	1.0	cloudy	F. R. Day.
Macon, Fort, North Carolina	29.01	752.1	29.62	752.3	29.0	— 1.7	67	nw.	14	6.3			10 k		nw.	2.59	65.8	cloudy	William Daly.
Madison, Wisconsin	28.35	720.1	29.44	747.8	11	—11.7	80	nw.	20	8.9			10 n			0.12	3.0	light snow..	C. A. Shaw.
Maginnis, Fort, Montana	25.72	653.3	30.27	768.8	26	— 3.3	67	w.	2	0.9			10 k			0	0	cloudy	F. Burke.
McKavett, Fort, Texas	27.84	707.1	30.23	767.8	22	— 5.6	73	sw.	5	2.2		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	28.79	731.3	29.57	751.1	12	—11.1	80	sw.	5	2.2			10 s			0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.46	748.3	29.82	757.4	30	— 1.1	88	calm	0	0		0	0			0.05	1.3	clear	D. T. Flannery
Milwaukee, Wisconsin	28.62	726.9	29.42	747.3				s.	4	1.8			10 s			0.05	1.3	cloudy	W. Line.
Missoula, Fort, Montana	20.96	684.8	30.42	772.7	29	— 1.7	80	calm	0	0		0	5 s			0.06	1.5	fair	J. H. Young.
Mobile, Alabama	30.02	762.5	30.06	763.5	31	— 0.6	78	w.	6	2.7		0	0			0.03	0.8	clear	C. A. Read.
Montgomery, Alabama	29.73	755.1	29.97	761.2	27.5	— 2.5	82	sw.	7	3.1		0	8 s		nw.	0.12	3.0	cloudy	J. B. McLaughlin
Moorhead, Minnesota	28.91	734.3	30.02	762.5	— 6	—21.1	100	n.	30	13.4			10 s		n.	0.15	3.8	cloudy	H. Bessant.
Morgantown, W. Virginia	28.60	726.4	29.66	753.4	21.5	— 5.8	82	calm	0	0			10 n			0.14	3.6	light snow.	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.14	587.7	29.77	756.1	5.0	—15 0	60	se.	5	2.2			10 s			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.16	740.7	29.77	756.1	27.0	— 2.8	88	sw.	9	4.0			10 n		w.	trap.	trap.	sleeting	L. N. Jesunofsky.
New Haven, Connecticut	29.45	748.0	29.57	751.1	9	—12.8	100	ne.	26	11.6			10 n		ne.	0.03	0.8	heavy snow	J. H. Sherman.
New London, Connecticut	29.49	749.0	29.54	750.3	14	—10.0	100	ne.	14	6.3			10 n		ne.	0.30	9.1	heavy snow	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.08	764.0	44.8	7.1	63	sw.	8	3.6		0	0			0	0	clear	L. Dunne.
Newport, Rhode Island	29.44	747.8	29.49	749.0	17.0	— 8.3	83	n.	22	9.8			10 n			0.62	15.7	heavy snow	W. McGillivray.
New York, New York	29.40	746.7	29.59	751.6	17	— 8.3	100	n.	12	5.4			10 n			0.13	3.3	light snow .	J. B. Merrill.
Norfolk, Virginia	29.52	749.8	29.54	750.3	24	— 4.4	88	nw.	16	7.2			10 n			0.70	17.8	light snow..	Wm. Davis.
North Platte, Nebraska	27.13	689.1	30.25	768.3	35.6	2.0	69	w.	18	8.0		0	5 s			0	0	fair	E. F. Brady.
Olympia, Washington Ty.	30.29	769.4	30.33	770.4	45.0	7.2	93	sw.	6	2.7			10 s			0.07	1.8	cloudy	J. Dascomb.
Omaha, Nebraska	28.73	729 7	30.00	762.0	29.8	— 1.2	78	nw.	26	11.6		0	0			trap	trap.	clear	A. Pollak.
Ooglaamie, Alaska	29.98	761.5	30.00	762.0	—21.4	—29.7		wnw.	7	3.1		hz.	3 s			0	0	clear	P. H. Ray.
Oswego, New York	29.40	746.7	29.75	755.6	10.0	—12.2	80	e.	5	2.2		8 cs	1 s	s.	ne.	0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.66	753.4	29.24	708.1	39.0	3.9	54	n.	8	3.6		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.03	762.7	30.00	703.5	30.3	— 0.9	73	calm	0	0		0	0			0.04	1.0	clear	M. McGauran.
Philadelphia, Pa.	29.47	748.5	30.58	776.7	17	— 8.3	91	n.	16	7.2			10 n		n.	0.43	10.9	light snow..	T. T. Townsend.
Pike's Peak, Colorado	17.73	450.3	30.43	772.9	8	—13.3	83	nw.	38	17.0		0	2 s			0	0	clear	H. Hall.
Ploche, Nevada	24.31	617.5	30.51	774.9	31	— 0.0	38	nw.	7	3.1		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	28.82	732 0	29.07	753.0	17.0	— 8.3	83	ne.	5	2.2			10 s		ne.	0.04	1.0	cloudy	W. A. Reid.
Poplar River, Montana	28.00	711.2	30.35	770.9				nw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.10	764.5	30.11	764.8	50.1	10.1	64	nw.	20	8.9		0	0			0	0	clear	H. B. Boyer.
Port Huron, Michigan	28.94	735.1	29.07	753.6	12.4	—10.9	91	e.	6	2.7			10 n			0.01	0.3	light snow..	W. O. Bailey.
Portland, Maine	29.74	755.4	29.79	756.7	7.5	—13.9	76	n.	23	10.3			10 s		n.	0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.28	769.1	30.35	770.9	40.2	4.6	100	calm	0	0			fg.			0	0	dense fog	M. L. Hearne.
Portsmouth, N. C.					29	— 1.7	88	nw.			4		10 s		nw.	2.74	69.6	cloudy	F. S Coburn.
Prescott, Arizona	24.95	633 7	30.33	770.4	20.5	— 6.4	70	w.	2	0.9		0	0			0	0	clear	W. H. Clendenon.
Provincetown, Mass.	29.51	749.5	29.54	750.3	27	— 2.8	88	ne.	20	8.9			10 n			0.09	2.3	light snow..	P. T. Jenkins.
Punta Rassa, Florida	30.03	762.7	30.04	763.0	50.5	13.0	81	nw.	30	13.4		0	7 ks		nw.	0.58	14.7	fair	W. J. Evans.
Red Bluff, California	29.95	760.7	30.32	770.1	31	— 0.0	100	w.	3	1.3		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.66	738.1	29.77	756.1	7	—13.9	87	se.	8	3.6			10k;sk		ne.	0.12	3.0	cloudy	E. W. McCann
Roseburg, Oregon	29.79	750.7	30.30	771.1	27.5	— 2.5	88	calm	0	0			fg.			0	0	dense fog	J. J. Nanry.
Sacramento, California	30.23	767.8	30.31	769.9	39.4	4.1	100	s.	4	1.8			fg.			0.01	0.3	dense fog	J. A. Barwick.
St. Louis, Missouri	29.09	738.9	29.73	755.1	30.4	— 0.9	95	nw.	20	8.9			10 s		w.	0.23	5.8	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.89	758.9	29.80	758.4	20	— 6.7	100	s.	16	7.2			10 s			trap.	trap.	cloudy	A. P. Leavitt.
St. Paul, Minnesota	28.75	730.2	29.70	754.4	7.0	—13.9	76	nw.	20	8.9		1 cs	0			0.04	1.0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.11	739.4	30.09	764.3	— 4	—20.0	88	n.	31	13.9		0	0			0.01	0.3	clear	C. B Dilley.
Salt Lake City, Utah	26.00	661.9	30.03	778 0	18	— 7.8	58	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.52	749.8	30.25	768.3	37.5	3.1	72	sw.	2	0.9		0	0			0	0	clear	T. J. Kenan.
San Diego, California	30.02	762.5	30.09	764.3	62.2	16.8	18	ne.	12	5.4		0	4 s			0	0	fair	A. C. Dobbins.
Sandusky, Ohio	28.94	735.1	29.66	753.4	10	—12.2	73	s.	7	3.1			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.51	749.5	29.54	750.3	19.0	— 7.2	84	n.	30	16.1			10 n			0.05	1.3	heavy snow.	B. A. Blundon.
San Francisco, California	30.18	766.0	30.28	768.3	41	5.0	87	nw.	17	7.6		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.37	593.6	30.42	772.7	25	— 3.9	67	ne.	13	5.8		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.80	756.9	29.90	759.4	37	2.8	51	w.	14	6.3		0	8 ks		w.	0.59	15.0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.53	673.8	30.39	771.9	30	— 1.1	70	ne.	5	2.2			10 s			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.84	757.9	30.09	764.3	35	1.7	69	nw.	6	2.7		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.95	735.3	30.28	769.1	40	4.4	62	n.	9	4.0		0	0			0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.40	621 3	30.32	770.1	23.5	— 4.7	64	sw.	2	0.9		0	0			0	0	clear	N. D. Lane.
Sitka, Alaska	29.04	752.8	29.71	754.6	34	1.1	83	se.	8	3.6			10 s		se.	trap.	trap.	light snow..	F. W. Fickett.
Smith, Fort, Arkansas	29.01	752.1	30.11	764.8	33.0	0.6	78	sw.	5	2.2		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	29.08	753.9	29.72	754.9	30	— 1.1	77	nw.	11	4.9		t e	8 k	w.	nw.	1.39	35.3	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.20	717.8	30.40	772 1	35	1.7	92	s.	1	0.4			10 c			0	0	cloudy	H. Clifford.
Springfield, Illinois	28.89	733.8	29.02	752.3	28	— 2.2	77	nw.	28	12.5			10 n			0.14	3.6	light snow..	T. B. Jennings.
Springfield, Missouri	28.47	723.1	29.99	761.7	31	— 0.6	76	nw.	18	8.0		0	0			trap.	trap.	clear	J. H. Bryce.
Starkville, Miss.	29.40	748.3	29.96	761.0	31	— 0.6	88	nw.	16	7.2		0	3 s			trap.	trap.	clear	C. Dill.
Stevenson, Fort, Dakota	28.22	716.8	30.28	769 1	20	— 6.7	87	nw.	23	10.3			10 s		nw.	0	0	cloudy	W. Burrows.
Stockton, Fort, Texas	27.17	690.1	30.31	769.9	33	0.0	71	sw.	8	3.6		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass.	29.58	751.3	29.04	752.8	23.0	— 5.0	94	ne.	44	19.7			10 n		ne.	0.40	10.2	light snow..	G. Liebmann.
Thomas, Camp, Arizona	27.48	698.0	30.31	769.9	20.5	— 3.1	94	se.			1	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	28.90	734.0	29.04	752.8	8	—13.3	70	e.	1	0.4		8 cs	0	s.		0	0	threatening	A. Buell.
Tucson, Arizona	27.69	703.3	30.19	766.8	35	1.7	72	se.	2	0.9		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.01	762.2	30.40	772.1	32	0.0	88	e.	1	0.4		0	0			0	0	clear	J. Daly.
Verde, Fort, Arizona					28.8	— 1.8	59	nw.			2	4 cs	0	w.		0	0	fair	D. Brooks.
Vicksburg, Mississippi	29.78	756.4	30.00	763.5	34.2	1.2	64	sw.	4	1.8		hz	0			0	0	clear	James Keneally.
Visalia, California	29.89	759 2	30.28	769.1	38.0	3.3	98	e.	1	0.4			fg.			0	0	dense fog	O. D. Stewart
Washakie, Fort, Wyoming	24.62	625.3	30.41	772.4	39.0	3.9	70	w.	11	4.9		0	0			0	0	clear	T. M. Ambler.
Washington, D. C.	29.53	750.0	29.05	753.1	15.8	— 9.0	100	nw.	5	2.2			10 n		nw.	0.10	4.1	light snow..	B. M. Purssell.
West Las Animas, Colorado	26.20	665.5	30.34	770.6	15	— 9.4	72	calm	0	0		0	0			0	0	clear	H. F. Brandenburg.
Williamsport, Pa.	29.08	738.6	29.71	754.6	16	— 8.9	91	w.	2	0.9			10 n			0.06	1.5	light snow..	B. F. Hough.
Wilmington, N. Carolina	29.79	755.9	29.82	757 4	30	— 1.1	78	nw.	13	5 8			10 s		nw.	1.34	34.0	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.99	660.1	30.53	775.4	15	—10.0	66	ne.	11	4.9		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.62	720.9	30.04	763.0	26	— 3.3	64	nw.	32	14.3			10 s			0	0	cloudy	J. H. Attfield.
Yuma, Arizona	30.01	762.2	30.10	766.1	52.3	11.3	33	n	6	2.7			10 s		n.	0	0	cloudy	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.0			54.0	12.2	77	ne.	1	0.4		5 ck	4ks;8	nw.	ne.	0.15	3.8	cloudy	Joaquim Gomez.
Kingston, Jamaica, W. I.	30.04	763.0	30.05	763.3	73	22.8	94	calm	0	0		1 cs	9 s		ese.	0.84	21.3	cloudy	Robert Johnston.
Paramaribo, S. A.	30.07	763.8	30.07	763 8	78	25.6	80	se.			2	4 ck	3 s	e.		0.200	5.1		Dr. C. J. Hering.
Puerto Berrio, U. S. Colmbia	29.40	748.3	30.02	762 5	70	24.4	89	calm			0		10 ks		n.	0.22	5.6	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.																			Earl Flint.
St. Paul, Kodiak Id., Alaska	29.92	760.0	29.97	761.2	45	— 3.9	73	nw.			2	5 c				0	0	fair	W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallon.
York Factory, B. A.	30.24	768.1	30.32	770.1	—20.0	—32.2		se	4	1.8		0	0			0	0	clear	Forbes ne & Wood

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Amethyst, S. 39° 13′, W. 61° 38′ †	29.91	759.7	73.5	23.1	79	SSW.			4		1					2	S.	misty
H. M. S. Audacious, Manila, Luzon, Phillipine Ids	29.91	759.7	80	26.7	82	nne.			1		1	e.						blue sky.
H. M. S. Boadicea, Saldanha Bay, Cape Colony	29.99	761.7				WSW.			1–2		1							blue sky.
H. M. S. Carysfort, N. 32° 30′, E. 26° 45′	30.12	765.0	64	17.8	83	W.			4–5		4	WSW.				3	WSW.	squally.
H. M. S. Champion, Singapore, Malay Peninsula	29.92	760.0	80	26.7	91	ne.			1–2		10	ne.				2	ne.	overcast.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.41	772.4	37.5	3.1	85	ene.			1		0							blue sky.
H. M. S. Comus, N. 22° 55′, W 113° 32′	30.08	764.0	66	18.9	78	nne.			1		0					1	ene.	blue sky.
H. M. S. Condor, N. 36° 00′ E. 14° 46′	30.01	762.2	63	17.2	78	SW.			2		4	SW.				3	SW.	d. clouds.
H. M. S. Constance, N. 10° 12, W. 26° 34′	29.97	761.2	79	26.1		n.			3		10	nne.				2	nne.	d. clouds.
H. M. S Curacoa, Yokohama, Japan	29.68	753.9	53.5	11.9	73	calm			0		0							blue sky.
H. M. S. Crocodile N. 37° 05′ E. 1° 47′	29.74	755.4	61	16.1	82	SW.			5		10					sm'h		showery.
H. M. S. Diamond, S. 41° 50′, E. 149° 07′	30.14	765.5	58	14.4	69	s.			2–3		3					2	s.	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	29.75	755.6	70	21.1	95	SSW.			5–6		7	SSW.						squally.
H. M. S. Dryad, N. 10° 05′ E. 83° 30′	29.95	760.7	80	26.7		ne.			4		5	ne.				6	ne.	d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.12	765.0	48	8.9	81	calm			0		5							d. clouds.
H. M. S. Fox Hound, Labuan Island, Borneo	29.89	759 2	80.5	26.9		ne.			1		10							overcast.
H. M. S. Gannet, S. 36° 42′, W. 73° 06′	30.06	763.5	61	16.1	87	ene.			2		10							d. clouds.
H. M. S Heroine, S. 0° 50′, W. 25° 45′	29.95	760.7	79	26.1	82	se.			3		4	ese.				sm'h		d. clouds.
H. M. S. Himalaya, N. 37° 36′, E. 6° 54′	29.76	755.9	67	19.4	74	SSW.			1		3							d. clouds.
H. M. S. Iron Duke, N. 11° 40′, E. 62° 37′	29.87	758.7	79	26.1	86	ne.			3-4		3	n.				2	nne.	d. clouds.
H. M. S. Lark, S. 35° 30′, E. 168° 20′	29.98	761 5	67.3	19.6	98	n.			3		10					3	n.	showery.
H. M. S. Magpie, N. 34° 41′ E. 135° 12′	30.00	762.0	44.5	6.9	85	calm			0		0							misty.
H. M. S. Monarch, Port Said, Egypt	30.09	764.3	65	18.3	68	WSW.			3		2							blue sky.
H. M. S. Mutine, S. 1° 50′, W. 112° 40′	29.96	761.0	70.5	21.4		e.			2		2					1	e.	blue sky.
H. M. S. Rocket, S. 39° 00′, W. 73° 39′	30.09	764.3	60	15.6	?	sse.			1		1	sse.						misty.
H. M. S. Superb, N. 36° 10′, E. 34° 30′ *	30.02	762.5	53	11.7	73	ne.			3		3	n.				3	ene.	d. clouds.
H. M. S. Swiftsure, S. 9° 44′, W. 78° 26′	30.04	763.0	66	18.9	94	se.			1–2		4					2	s.	foggy.
H. M. S. Sylvia, Cape Upright, Patagonia	29.78	756.4	44.5	6.9	80	WNW.			4–6		9							showery
H. M. S. Tourmaline, Bombay, India	29.98	761.5				NNW.			2		0							blue sky.
H. M. S. Zephyr, N. 35° 02′, E. 122° 51′	30.36	771 1	42	5.6	?	W.			5-6		0					3	nw.	blue sky.
Portuguese Naval																		
Tamega, Macao, China	30.19	766.9	64.4	18.0	85	calm			0		0			0	0			blue sky
United States Naval.																		
Navy Yard, Pensacola, Fla*	30.04	763.0	32	0.0	79	n.	2	0.9			0			0	0			clear.
Navy Yard, Portsmouth, N. H*	29.74	755 4	5	—15.0	?	ne.	23	10.3			10	ne.						snowing.
Naval Hospital, Yokohama, Japan*	29.67	753.6	47	8.3	62	calm			0		0			0.01	0.3			clear.
Adams, Sitka, Alaska†	29.72	754.9	34	1.1	90	ene.			1		10							light snow.
Alaska, Mare Island, Cal	30.27	768.8	39	3.9	81	ne.			2		8			0	0			fair.
Alliance, Santiago de Cuba, Cuba, W. I	29.98	761.5	75	23.9	95	calm			0		0?			h'vy	h'vy	sm'h		raining. ?
Ashuelot, Shanghai, China	30.38	771.6	37	2.8	71	calm			0		0							clear.
Brooklyn, S. 49° 52′, W. 67° 20′*	29.58	751 3	49	9.4	85	SSW.	55	24.6			5		SSW.	0.01	0.3	h'vy	SSW.	fair.
Colorado, New York, N. Y	29.66	753.4	17	— 8.3	100	nne.	20	8.9			10		ne.					snowing.
Enterprise, N. 38° 23′, W. 59° 45′*	29.59	751.6	69	20.6	90	SW.			6		8		SW.			h'vy	SW.	cloudy.
Essex, Callao, Peru	30.02	762.5	68	20.0	90	se.			1		2		se.					clear.
Franklin, Norfolk, Va	29.55	750.6	23	— 5.0	?	nnw.	18	8.0			10		nnw.					snowing.
Galena, Montevideo, Uruguay*	29.70	754.4	81	27.2	86	WSW.			2		0					sm'h		clear.
Hartford, S. 24° 17′, W. 75° 47′*	30.02	762.5	69	20.6	90	calm			0		10					sm'h	S.	cloudy.
Independence, Mare Island, Cal	30.29	769.4	37	2.8	100	se.			5		10		se.	0	0			foggy.
Iroquois, Callao, Peru	30.04	763.0	69	20.6	84	calm			0		5							fair.
Jamestown, Boston, Mass*†	29.68	753.9	16	— 8.9	100	n.			6		10							snowing.
Juniata, Gibralter, Mediterranean*	29.85	758.2	59	15.0	87	SW.			3		10		SW.	h'vy	h'vy	sm'h		cloudy.
Kearsarge, Port of Spain, Trinidad, W. I	30.03	762.7	78	25.6	95	nne.			1		2		e.			sm'h		fair.
Lackawanna, N. 9° 25′ W. 127° 15′*	30.02	762.5	77	25.0	77	SW.			2		2		SSW.			sm'h	S.	clear
Lancaster, Genoa, Italy			40	4.4	91	nne.			0		10		n.					squally.
Michigan, Erie, Pa	29.59	751.6	22	— 5.6	85	ne			1		8		W.					fair.
Minnesota, New York, N. Y	29.59	751.6	10	— 8.9	100	nne.	10	4.5			10							snowing.
Monocacy, Nagasaki, Japan	30.14	765.5	49	9.4	85	nw.			1		5							fair.
New Hampshire, Newport, R. I	29.41	747.0	23	— 5.0	86	nne.			7		10		calm			r'gh	nne.	cloudy.
Nipsic, Lisbon, Portugal	29.65	753.1	60	15.6	70	sw.			5		5		SW.					squally.
Onward, Callao, Peru*†	30.12	765.0	67	19.4	94	calm			0		5		n.					fair.
Palos, Tientsin, China*	30.10	764.5	28	— 2.2	67	SW.			1		0							clear.
Pensacola, Panama, U. S. C*	29.91	759 7	74	23.3	90	nw.	0.5	0.2			5		nw.	0	0	sm'h		misty.
Portsmouth, Boston, Mass	29.68	753.9	9	—12.8	?	nne.			4		10							snowing.
Powhatan, Boston, Mass	29.65	753.1	11	—11.7	100	n.			3		10							snowing
Quinnebaug, Genoa, Italy	29.87	758.7	40	4.4	81	nne.			4		10		calm					rainy.
Ranger, N. 20° 51′, W. 118° 08′*	30.05	763.3	69	20.6	75	nne.			1		8		ne.	0	0	long	nnw.	cloudy.
Richmond, Hong-Kong, China*	30.10	764.5	65	18.3	83	calm			0		0			0	0			clear.
Saratoga, New York, N. Y	29.54	750.3	18	— 7.8	100	ne.			6		10		ne.					snowing
St. Louis, League Island, Pa	29.57	751.1	10	— 8.0	100	nne.			3		10		nne.	0.28	7.1			snowing.
Tennessee, N. 17° 17′ W. 62° 42′ *	30.07	763 8	80	26.7	90	ne.	8	3.6			5			0	0			fair.
Vandalia, Samana Bay, San Domingo, W. I*	30.09	764.3	79	26.1	86	ene.			2		1		calm					clear.
Wabash, Boston, Mass	29.66	753.4	11	—11.7	66	ne	15	6.7			10		ne.	0	0			cloudy.
Wachusetts, Mare Island, Cal	30.34	770.6	31	— 0.6	100	ene.			2		10?							clear.
Wyandotte, Washington, D. C	29.76	755.9	28	— 2.2	100	nw.			2		10		w.					snowing.
Yantic, N. 11° 50′, W. 75° 56′	30.00	762.0	77	25.0	95	ene.			2		8		ene.			sm'h		hazy.
Merchant Marine.																		
S. S. Grecian, Glasgow, Scotland *	29.74	755.4	47	8.3	77	e.			5		10			0	0			overcast.
S. S. Polynesian, N. 43° 40′, W. 68° 50′*	29.65	753.1	8	—13.3		ne.			5		10			snow	snow	mod.	ne.	snowing.
S. S. British Crown, Liverpool, England†	29.49	749.0	34	1.1		ese.			4		3		ese.	5 h'r	5 h'r			dense haze.
S. S. Indiana, Liverpool, Eng			42	5.6	83	se.			4		10		se.					overcast.
S. S. Lord Clive, N. 48° 55′, W. 38° 40′	29.22	742 2				NW.			4		6		NW.	3 h'r	3 h'r	slt	w.	fair.
S. S. Lord Gough, N. 48° 20′, W. 40° 33′	29.36	745 7	36	2.2		WNW.			4		10		WNW.	snow	snow	mod.	WNW.	cloudy.
S. S. Ohio, N. 38° 50′, W. 74° 30′			31	— 0.6	89	ne.			6		10		ne.			r'gh	ne.	snowing.
S. S. Pennsylvania, N. 51° 23′, W. 22° 30′†	29.12	739.6	46	7.8	92	W.			4		7		WSW.	0	0	mod.	se.	cloudy
S. S. Jason, N. 42° 21′, W. 55° 17′			48.2	9.0		WNW.			6		6 k					7	WNW.	cloudy.
S. S. Stella, N. 51° 20′ W. 29° 47′	29.20	741.7	47	8.3		WNW.			6		7		NW.	2 h'r	2 h'r	5	W.	overcast
S. S. Bolivia, N. 51° 10′, W. 33° 10′	29.35	745.5	44	6.7	91	var.			1		8		e.	0	0	long	ne.	cloudy.
S. S. Dorian, Castellamare, Sicily*	29.77	756.1				var.					10			0	0			cloudy
S. S. Utopia, N. 38° 12′, W. 72° 14′			45	7.2	92	n.			9		10		nne.	16 h'r	16 h'r	high	nne.	cloudy.
S. S. Ambrose, Amazon River, Brazil†	30.02	762 5	80	26.7							2		e.	1 h'r	1 h'r			cloudy.
S. S. Carroll, N. 43° 17′ W. 66° 06′			24	— 4.4		ene.			6		10		ene.	snow	snow	short	var.	heavy snow
S. S. Landaff City, N. 51° 22′, W. 7° 56′						ese.			8		8		ese.	0	0	h'v'y	ese.	cloudy.
S. S. Auckland, S. 56° 34′, W. 71° 50′	29.43	747.5	43	6.1	75	SSW.			6		10							overcast
S. S. Caldew, S. 23° 59′, E. 70° 10′	30.05	763.3	78.8	26.0	78	ene.			4		3							d. clouds.
S. S. City of Agra, S. 55° 25′, W. 63° 50′	29.18	741.2	39	3.9	95	SW.			6		7							squally.
S. S. Gordon Castle, N. 35° 57′, E. 14° 54′	29.95	760.7	65.5	18.6	84	WSW.			2		6							d. clouds.
Inchkeith, N. 12° 21′, E. 87° 15′	29.97	761.2	77	25.0	77	ne.			5		8							d. clouds.
St. Kilda, N. 30° 30′ W. 57° 40′	30.15	765.8	70.5	21.4	85	SSW.			6		1							blue sky.
S. S. Scotia, N. 37° 14′, E. 11° 02′	29.82	757.4	64.2	17.9	53	SW.			2		9							d. clouds.
S. S. Lake Huron, N. 51° 22′, W. 10° 55′			45	7.2		e.			6		10		se.	3 h'r	3 h'r	mod	ese.	
S. S. Mexico, N. 25° 10′ W. 112° 45′†	30.09	764.3	70	21.1	75	e.			4		0							
S. S. Marathon, N. 47° 30′, W. 39° 00′			40	4.4		WNW.			4		10		NW.	6 h'r	6 h'r	mod.	nw.	raining.
S. S. Parthia, N. 50° 38′, W. 22° 17′	29.28	743.7	50	10.0	79	W.			4		7		W.	5 h'r	5 h'r	h'vy	ese.	drizzling.
S. S. Pavonia, N. 41° 42′ W. 60° 01′	29.66	753.4	48	8.9	85	nne.			6		mist		W.	sleet	sleet	sl't	nw.	hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Force.	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																		
S. S. Colina, N 41° 25′, W. 66° 39′						nne.			9		10		ne.	0	0	long	ne.	cloudy.
S. S. Canada, N. 49° 00′, W. 34° 00′	29.46	748.3	43	6.1		s.			4		k		sw.	rain	rain	h'vy	nw.	rainy.
S. S. Labradore, N. 49° 10′, W. 32° 21′*†	29.57	751.1	44.6	7.0		nnw.			4		5		nnw.	rain	rain	sm'h	w.	fair.
S. S. Perire, N. 40° 42′, W. 74° 00′	29.50	749.3	24.8	—4.		nnw.			6		10		nnw.	snow	snow			snowy.
S. S. Ville de Marseilles, N. 43° 42′, W. 8° 37′ *†	29.10	739.1	54	12.2		sw.			6		4		w.	h'vy	h'vy	h'vy	sw.	fair.
S. S. Abyssinia, N. 44° 32′, W 50° 15′	29.79	750.7	35	1.7	80	ne.			4		10		calm	1 h'r	1 h'r	mod.	var.	gloomy.
S. S. Arizona, N. 41° 10′, W 66° 34′	29.45	748.0	33	0.6		ene.			7		10		ene.	snow	snow	high	ene.	heavy snow
S. S. Wisconsin, N. 51° 20′, W. 23° 00′			46	7.8		w.			4		8		w.	8 h'r	8 h'r	mod.	e.	showery.
S. S. Wyoming, N. 50° 57′, W. 19° 13′	29.22	742.2	49	9.4		ese.			5		5		e.	4 h'r	4 h'r	h'vy	e.	threatening.
S. S. Bohemia, Hamburg, Germany*†	30.12	765.0				e.			3–7		7			snow	snow			fair.
S. S. Rugia, N. 49° 20′, W. 30° 30′	29.50	749.3	48	8.9		w.			9		8		w.	12 mi	nutes	6	n.	cloudy.
S. S. Silesia, N. 47° 04′, W. 39° 17′	29.39	746.5	41.2	5.1		ne.			5–9		9					4	ne.	rainy.
S. S. Vandalia, Hamburg, Germany	30.08	764.0	28.8	—1.8		ene.			3		10		e.					cloudy.
S. S. Wieland, N. 44° 20′, W. 50° 59′	29.82	757.4				wnw			5		10		nw.	6 h'r	6 h'r	mod.	nw.	cloudy.
S. S. Mentinore, N. 43° 29′, W. 56° 45′ *	29.78	756.4				ene.			6		8		ne.	0	0	mod.	e.	threatening.
S. S. Archimedes, Bahia, Brazil	29.96	761.0				calm			0					0	0			clear.
S. S. Hevelius, Liverpool Bay, Eng			51	10.6		ese.			9		47		se.	0	0	high	ssw.	cloudy.†
S. S. Ptolemy, N 32° 00′, W. 17° 50′	29.90	759.4	65.9	18.8	85	w.			7	c	6 ck			0	0	con.	var.	d. clouds.
S. S. Sirius, M. 7° 40′, W. 46° 50′ *	29.95	760.7				ne.			6		4		ne.	0	0	r'gh	nne.	clear.
S. S. Colorado, New York, N. Y			12	—11.1		ne.			5		10		ne.	snow	snow			overcast.
S. S. San Marcos, N. 28° 28′, W. 80° 00′	30.08	764.0	49	9.4		wnw.			0		3		nw.	0	0	h'vy	nw.	clear.
S. S. Archimede, Marseilles, France†	29.59	751.6	54	12.2	61	ese.			0		8		ese.	2 h'r	2 h'r			cloudy.
S. S. Hermod, N. 45° 19′, W. 43° 28′†	29.54	750.3	43	6.1		n			0		6		nnw.	snow	snow	high	nw.	stormy.
S. S. Alleghany, Norfolk, Va†	29.58	751.3	34	1.1		nne.			0		10		n.	snow	snow			stormy.
S. S. Glenfyne, N. 32° 47′, W. 68° 20′						wsw.			8		10		wsw.	2 h'r	2 h'r	h'vy	wsw.	threatening.
S. S. Brooklyn, Portland, Oregon			9	—12.8		n.			4				n.	5 h'r	5 h'r			cloudy.
S. S. Dominion, N. 49° 42′, W. 36° 22′ *†	29.34	745.2	43	6.1		wnw.			3		10			snow	snow	mod.	nw.	overcast.
S. S. Chalmette, Algiers, La†	30.04	763.0	44	6.7		w.			2		0			0	0			clear.
S. S. New York, N. 24° 17′. W. 81° 53′ †	30.11	764.8	68	20.0		nw.			6		8		nw.	0	0	r'gh	nw.	cloudy.
S. S. Denmark, New York, N. Y †	29.47	748.5	18	— 7.8		n.			8		10			snow	snow			overcast.
S. S. England, N. 51° 14′, W. 10° 44′	29.21	741.9				e.			8		10		e.	sq 'lls	sq 'lls	h'vy	e.	squally.
S. S. Erin, Liverpool. Eng			30	—1.1		wnw.			7		10			rain	rain			raining.
S. S. Greece, N. 49° 01′, W. 36° 05′	29.23	742.4	42	5.6		wnw.			6		9		wnw.	12 h'r	12 h'r	mod.	nnw.	squally.
S. S. Helvetia, N. 42° 20′, W. 53° 00′	29.73	755.1	39	3.9		ene.			5		10		ne.	9 h'r	9 h'r	short	n.	raining.
S. S. Santiago, St. Jago, W. I	30.28	769.1	71	21.7	99	n.			4		0			18 h'r	18 h'r	sm'h		fine.
S. S. City of Alexandria, Havana, Cuba, W.I †	30.13	765.3	70	21.1	95	wnw.			7		8		nw.	2 h'r	2 h'r	h'vy	nw.	cloudy.
S. S. City of Merida, N. 23° 09′, W. 82° 22′	30.11	764.8	71.6	22.0		nw.			3		8		nw.	2 h'r	2 h'r	cross	nw.w	squally.
S. S. City of Washington, Vera Cruz, Mexico†	30.33	770.4	70	21.1		calm			2		5		ne	0	0	light	nnw.	fine.
S. S. Alpin, N. 27° 10′, W. 86° 29′	30.13	765.3	60	15.6		nw.			4								se.	clear.
S. S. Braunschweig, Buenos Ayres, Argentine Rep	29.88	758.9	89.6	31.7	84	n.			3		0			0	0			clear.
S. S. Neckar, N. 43° 44′, W. 48° 15′	29.79	756.7	39.0	3.9	91	nnw.			6		10		nnw.	3 h'r	3 h'r	cross	n.	cloudy.
S. S. Oder, N. 44° 42′, W. 51° 41′	29.80	756.9	27.5	—2.5		nne.			4		10		nne.	rain	rain	mod.	nne.	covered.
S. S. Saller, Browershaven, Netherlands*†	30.15	765.8				ese.			5		10		ese.	0	0			cloudy.
S. S. Strassburg, S. 5° 12′. W. 33° 08	30.02	762 5	80.0	26.7	87	e.			3		3		e.	0	0	mod.	e.	clear.
S. S. Belgic, N. 35° 13′, E. 178° 27′*†	29.82	757.4	58	14.4	64	w.			0		3		w.	0	0	h'vy	w.	fair.
S. S. Gaelic, N. 34° 39′, E. 148° 08′	29.73	755.1	63	17.2	94	wsw.			6		07		w.	0	0		sw.	cloudy.†
S. S. Oceanic, N. 45° 56′, W. 152° 37′*	30.12	765.0	42	5.6	83	nw.			4		4		nw.			mod.	cress	fine.
S. S. City of Augusta, New York, N. Y †	29.54	750.3				nne.			0		7		n.	snow	snow			heavy snow
S. S. Mississippi, San Francisco, Cal *†	30.30	769 0	42	5.6		ne.			2		0							clear.
S. S. Oregon, N. 46° 14′ W. 124° 10′ †	30.33	770.4	46.5	8.1	88	se.			1							light	sw.	foggy.
S. S. Ancon, N. 34° 32′, W. 120° 41′†	30.09	764.3	52	11.1	69	ne.			2		0					sm'h		hazy.
S. S. City of Chester, San Francisco, Cal*†	30.24	768.1	41	5.0	82	nw.			5		0			0	0			clear.
S. S. G. W. Elder, Port Townsend, Wash. Ter†	30.38	771.6	46	7.8	84	calm			0		2			0	0			clear.
S. S. State of California, San Francisco, Cal †..	30.24	768.1	40	4.4	73	n.			4		0			0	0			clear.
S. S. Victoria, San Francisco, Cal*†	30.26	768.6	43	6.1		nnw.			3		2		nnw.					fair.
S. S. City of New York, S. 2° 59′, W 166° 26′†	29.95	760.7	78	25.6	78	ne.			3		0			0	0	mod.	ne.	clear.
S. S. City of Sydney, S. 34° 09′, E. 170° 42′ †	30.09	764.3	68	20.0	84	ne.			2		2		ne.	0	0	mod	ne.	hazy.
S. S. City of Tokel, Hong Kong, China †	30.23	767.8	59	15.0	70	calm			0		2		ne.	0	0	small	nw.	clear.
S. S. Colima, Acapulco, Mexico†	30.03	762.7	74	23.3	100	calm			0		5?		calm	0	0			clear.?
S. S. Grenada, N. 15° 42′, W. 90° 54′†	29.97	761.2	77	25.0	82	e.			2		0			0	0	sm'h	ese.	clear.
S. S. San José, N. 8° 54′ W. 79° 30′*†	29.95	760.7				nw.			2		2 k		nw.	0	0	light	nw.	
S. S. Zealandia, Sydney, N. S. W*	29.90	759.4	72	22.2	90	ese.			4		17		e.					heavy rain†
S. S. Muriel, Martinique, W. I*	30.06	763.5	80	26.7		ese.			3		2			light	light	sm'h		fair.
S. S. Caracas, N. 14° 35′ W. 68° 17′ †	30.12	765.0	81	27.2	78	e.			5		8		ese.	0	0	sharp	ese.	fair.
S. S. Claudius, N. 32° 06′, W. 75° 40′†	29.51	749.5				wnw.			7		5		nw.	sh'rs	sh'rs	mod.	sw.w	stormy.
S. S. Valencia, N. 28° 25′, W. 70° 07′†	29.87	758.7	75	23.9	88	nnw.			0		0		sw.	1 h'r	1 h'r	h'vy	sw.	raining.
S. S. Belgenland, Antwerp, Belgium	29.87	758.7	32	0.0	90	ese.			4		4		se.	0	0			fair.
S. S. Pennland, N. 49° 30′, W. 26° 25′	29.32	744.7	42	5.6	7	nw.			6		10		nw.	8 h'r	8 h'r	r'gh	var.	hazy.
S. S. Rhynland, N. 45° 50′, W. 51° 00′	29.81	757.2	30	—1.1	100	n.			6		10		nne.	12 h'r	12 h'r	long	n.	heavy snow
S. S. Switzerland, N. 50° 03′, W. 11° 03′†	29.04	737.6				ene.			7		10		ene.	3 h'r	3 h'r	h'vy	e.	cloudy.
S. S. Waesland, N. 44° 12′, W. 52° 56′	29.88	758.9	31	— 0.6		n.			5		10		nne.	6 h'r	6 h'r	mod.	n.	cloudy.
S. S. Maas, N. 44° 56′ W. 38° 10′	29.21	741.9	60.8	16.0		wnw.			6		10		s.	0	0	6–7	w.	fair.
S. S. Schiedam, N. 45° 10′, W. 40° 27′	29.25	742.9	54.7	12.6	86	wsw.			7		9		wnw.	11 h'r	11 h'r	long	wsw.	raining.
S. S. W. A. Scholten, N. 43° 05′, W. 62° 40′						ne.			7		9		var.	7 h'r	7 h'r	long	ne.	snowing.
S. S. State of Florida, N. 51° 27′, W. 30° 44′	29.26	743.2	44	6.7		wsw.			5		10		w.	8 h'r	8 h'r	h'vy	w.	overcast.
S. S. State of Indiana, N. 48° 03′, W. 41° 08′†	29.34	745.2	38	3.3		n.			6		7		nw.	10 h'r	16 h'r	mod.	nw.	squally.
S. S. Iowa, N. 42° 49′, W. 53° 35′ *†	29.90	759.4	35	1.7		n.			4		10			14 h'r	14 h'r	r'gh	ne.	snowing.
S. S. Plantyn, N. 41° 02′, W. 55° 30′	29.54	750.3							6		7		ene.	8 h'r	8 h'r	cross	ne.	squally.
S. S. Britannic, N. 43° 41′, W. 47° 11′†	29.72	754.9	40	4.4	7	nne.			4		5		nne.	3 h'r	3 h'r	mod.	e.	fair.
S. S. Germanic, N. 46° 07′. W. 47° 11′†	29.70	754.4	42	5.6		n.			4		5		n.	snow	snow	sm'h		d. clouds.
S. S. Lepanto, N. 42° 10′, W. 61° 15′*	29.69	754.1	30	—1.1		ne.			2		10		ene.	hail	hail	h'vy	s.	squally.
S. S. Romano, N. 45° 44′, W. 40° 09′*†	29.38	746.2	49	9.4		nnw.			6		10		nw.			mod.	nw.	overcast.
S. S. Salerno, N. 42° 22′, W. 58° 16′	29.78	750.4	24	— 4.4		ne.			4		10		s.	1 h'r	1 h'r	r'gh	nw.	snowing.
S. S. Aries, N. 40° 28′, W. 72° 45′*†	29.30	744.2				ne.			0		10		ne.	snow	snow	high	ne.	snowing.
S. S. Catherine Whiting, Philadelphia, Pa †	29.01	752.1				ne.			1					snow	snow			
S. S. Norman, N. 42° 23′, W. 71° 07′ †	29.66	753.4				ne.			6					18 h'r	18 h'r			heavy snow
S. S. Saxon, Philadelphia, Pa †	29.54	750.3	17	— 8.3		n.			3		10			snow	snow			heavy snow
MISCELLANEOUS.																		
Schr. Abbie H. Gheen, N. 32° 45′, W. 79° 00′ †	29.81	757.2	50	10.0		wsw.			5				sw.	0	0			
Bk. Adelaide, S 3° 09′, W. 32° 37′*	29.96	761.0	83	28.3		se.			4				se.	0	0	short	se.	clear.
Bk. Alpha, Demerara, British Guiana, S. A*†	29.99	761.7	80	30.0		ene.			6		4		ene.	0	0	mod.	ene.	fair.
Schr. Anna A. Holton, N. 21° 43′, W. 96° 52′†	30.26	768.6	65	18.3		sw.			4		0			0	0	mod.	n.	clear.
Bk. Anna Thormann, S. 28° 05′, E. 7° 27′	30.10	766.1	72.7	22.6	82	ssw.			2		2 k		sw.	imap.	imap.	mod.	ssw.	clear.
S. S. Antonio Lopez, Cadiz, Spain	29.86	758.9	59	15.0	82	ssw.			5		8			12 h'r	12h'r			hazy
Bk. Aquidneck, N. 32° 43′, W. 71° 00′ *†	29.60	751.8	74	23.3		var.			6		10		ssw.	hv'y	h'vy	hv'v	var.	cloudy.
Bgt. Arthur, S. 5° 35′, W. 25° 45′*†	30.03	762.7				se.			3		2		se.	light	light	mod.	var.	
Bk. B. F. Watson, N 22° 15′, E. 119° — †	30.14	765.5	70	21.1		nne.			5		2			0	0	sm'h		misty.
Bg. Belle of the Bay, Galveston, Texas †	30.23	767.8				wsw.			2		0			0	0			clear
Bk. Bremen, N. 44° 40′, W. 14° 15′*	29.14	740.1				w.			5		5		w.	4 h'r	4 h'r	cross	var.	raining.
S. S. Burswell, N. 44° 40′, W. 30° 41′*†	29.59	751.6	55	12.8		ssw.			3		10			3 h'r	3 h'r	str'g	nnw.	
Bk. Champion, Philadelphia, Pa			33	0.6		ne.			4		10		ene.	snow	snow			
Bk. Commerce, N. 30° 32′, W. 39° 34 †	29.88	758 9	07	19.4		wsw.			5		10		wsw.	2 h'r	2 h'r	long	wsw.	misty.
S. S. D. J. Foley, N. 33° 40′, W. 74° 11′*†	29.50	749.3			82	wnw.			9		8		wnw.	10 h'r	10 h'r	r'gh	wsw.	
Bk. E. D. Bigelow N. 46° 28′, W. 21° 16′ *†	29.25	742.9				nw.			8		2		nw.	3 h'r	3 h'r	cross	nnw.	squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Schr. Edith R. Seward, Wilmington, N. C†	29.65	753.1	32	0.0		nw.			2		6		nw.	8 h'r	8 h'r			fair.
Bk. Edmund Phinney, S. 2° 32′, W. 33° 03′ †	29.97	761.2	82	27.8		ese.			4		3		ese.	0	0	mod		hazy.
S. E. J. Spicer, Liverpool, Eng†	29.62	752.3	46	7.8	100	ese.			4		10		se.	6 h'r	6 h'r			foggy.
Bk. E. L. Pettingill, S. 34° 20′, W. 122° 22′ *†	30.20	767.1	70	21.1		ese.			3		2		ese.	0	0	sm'h	ssw.	
Bk. Essex, Majambo, Madagascar*†	29.92	760.0	89	31.7		nw.			4					light	light	light	nw.	
Schr. F. E. McDonald, Jacksonville, Florida†	29.91	759.7	34	1.1		nnw.			5		0			4 h'r	4 h'r			fine.
U.S. F. C. S. S. Fish Hawk, Washington, D. C †	29.68	753.9	24	−4.4		n.			1		10		calm					cloudy.
S. S. Foscolia, Dunkirk, France						ne.			3		2			0	0			fair.
Bk. Freya, Matanzas, Cuba, W. I.						n.			5		10		n.	1 h'r	1 h'r			cloudy.
Bg. George, Ponce, Porto Rico, W. I*†	30.17	766.3				ne.			1		0			0	0			clear.
S. Geo. Stetson, N. 4° —′, W. 28° —′ *†	30.09	764.3	79	26.1	86	ne.			5		2		ne.	0	0	sm'h	ene.	clear.
Bk. Gronsvaer, Auckland, N. Z	30.12	765.0	72.2	22.3		ne.			4		5		ne.	½ h'r	½ h'r			
Bk. Hattie G. McFarland, Demerara, Brit. Guiana†*	30.08	764.0	78	25.6		ene.			5		6		e.	4 h'r	4 h'r			showery
Schr Hattie Weston, N. 26° 50′, W. 60° 20′ *†	30.24	768.1	74	23.3		sse.			3		10		se.	o.	o	mod.	sse.	light rain.
S. Hedwig, N. 44° 27′. W. 31° 26′	29.57	751.1	51.1	10.6		sw.			4		10		sw.	1 h'r	1 h'r	4	nw.	rainy.
Bk. Heinrich & Tonio, N. 48° 45′, W. 12° 20′			51	10.6		ne.			5		8		var.	18 h'r	18 h'r	mod.	e.	cloudy.
Schr. Isabel Alberto, Jersey City, N. J †	29.68	753.9				n			6		10		n.	snow	snow			stormy.
Schr. James Slater, N. 37° 33′, W. 72° 48′			48	8.9		ne.			9		10		n.	8 h'r	8 h'r	h'vy	ne.	snowing
Bk. Johanne, N. 43° 44′, W. 16° 30′ *†	29.20	741.7	56	13.3		wnw.			5		10		n.	2 h'r	2 h'r	r'gh	ne.	hazy.
Schr. John L. Thomas, N. 26° 34′, W. 64° 30′ *†	30.14	765.5				s.			4		2		sw.	0	0	short	se.	fine.
Bkt. Josephine, S. 9° 18′, W. 31° 10′†	29.97	761.2	85	29.4	72	ese.			4		2			0	0	sm'h		fair.
S. S. J. W. Wilson, Port Eads, La.*†	30.02	762.5	54	12.2		nw.			5		0			0	0			clear.
Light House Tender Laurel, Punta Rassa, Fla †	30.04	763.0	56	13.3		nw.			4		6		nw.	0	0	long	w.	fair.
Bg. Lilian, Demerara, Brit. Guiana†	30.11	764.8	81	27.2		ese.			5		8		ene.	2 h'r	2 h'r			squally.
Bk. Louise Adelaide, Vera Cruz, Mexico						wsw.			1		4		nw.	0	0	h'vy	n.	fine.
Bg. L. & W. Armstrong, N. 36° 03′, W. 72° 35′*†	29.34	745.2				wsw.			9		7		wsw.	4 h'r	4 h'r	h'vy	sw.	raining.
S. S. Malabar, Valencia, Spain						w.			9		0			0	0	sm'h		clear.
Schr. Minnie A. Bonsall, Jacksonville, Fla †	29.98	761.5	60	15.6		w.			6		0			0	0			clear.
S. Minnie N. Gerow, N. 39° 50′, W. 73° 00′						ne.			9		10		ne.			h'vy	n.	sleeting.
S. M. P. Grace, S. 39° 32′, W. 32° 16′ *	29.94	760.5	63	17.2		n.			5		1		nnw.	0	0	sm'h	n.	fine.
Bg. Myrtle, N. 26° 43′, W. 59° 05′*†	30.02	762.5				sse.			2		2		se.	0	0	sm'h		fair.
Bkt. Norena, Off Stirrup Cays, W. I*†	30.08	764.0				sse.			4		0			0	0	sm'h		fine.
Bg. O. C. Clary, Miragoane, Hayti, W. I.*†	30.08	764.0	81	27.2	91	calm			0		1		e.					
Bk. Ottawa, Alicante Road, Spain*	29.73	755.1	60	15.6		w.			5		0			0	0	sm'h		clear.
S. Paramita, San Francisco, Cal	30.21	767.3	43	6.1		n.			1					0	0			clear.
Schr. Pearl Nelson, N. 34° —′, W. 71° 31′*†	29.64	752.8				w.			9		10		w.	rain	rain	h'vy	w.	threatening.
S. S. Peconic, N. 24° 17′, W. 82° 00′*†	30.00	762.0	66	18.9		nnw.			6		10		nnw.			long	w.	overcast.
S. S. Raleigh, Kingston, Jamaica, W. I*†	29.95	760.7	78	25.6		calm			0		10			10 h'r	10 h'r			
Bk. Reindeer, N. 26° 23′, W. 61° 11′*	30.12	765.0				s.			7		5		s.	0	0	long	ese.	squally.
S. Rudolph, N. 48° 08′ W. 11° 14′			40.3	4.6		n.			5		9			4 h'r	4 h'r	long	w.	rainy.
Schr. S. B. Hubbard, Jacksonville, Fla*†	29.70	754.4	38	3.3		w.			5		0			16 h'r	16 h'r			clear.
Bk. Scud, N. 27° 47′, W. 55° 12′ *†	30.26	768.6	74	23.3		s.			4		7			0	0	long	se.	
Bk. Southern Belle, N. 29° 14′, W. 24° 35′*†	30.06	763.5	65	18.3		wnw.			3		5?			0	0	long	nw.	clear.?
S. Sovereign of the Seas, N. 2° 36′, W. 109° 37′ *†	30.05	763.3	75	23.9	90	ssw.			3		0			0	0	sm'h	ene.	clear.
Bk. Sunbeam, N. 39° 16′, W. 12° 58′*†	29.40	746.7	58	14.4	94	ssw.			9		10		sw.	3 h'r	3 h'r	cross	var.	cloudy.
S. S. Sunbeam, N. 29° 22′, W. 77° 43′	29.82	757.4	57.5	14.2	72	wnw.			7		5		wnw.	5 h'r	5 h'r	7	wnw.	squally.
S. Titan, N. 31° 21′, W. 41° 09′*†	30.24	768.1	68	20.0	95	wsw.			3		1		wsw.	½ h'r	½ h'r	mod.	nw.	clear.
Bk. Wandering Jew, Montevideo, Uruguay †	29.70	754.4	82	27.8		nw.			3		4		nw.	0	0			clear.
Schr. Wm. Wiler, St. John's River, Fla†	29.91	759.7				wsw.			4		5?		w.	0	0	mod	w.	fine?
Bk. Xenia, N. 32° 45′, W. 48° 17′ *†..	30.21	767.3	73	22.8		w.			5		1		w.	0	0	long	wnw.	clear.

International Chart I. January 10, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B.Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS.

TAKEN SIMULTANEOUSLY ON JANUARY 11, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.84	757.9	60.8	16.0	85	ne.	.....	.....	6	.....	3	.....	.....	0	0	pretty fair...	Malaterre.
Algiers	.....	.....	29.76	755.9	61.5	16.4	81	wsw.	.....	.....	6	.....	10	.....	.....	0	0	covered	Thève.
La Calle	.....	.....	29.80	756.9	69.8	21.0	24	sw.	.....	.....	3	.....	4	.....	.....	0	0	cloudy..	Fonfrède.
Tunis	.....	.....	29.84	758.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	29.92	759.9	57.6	14.2	69	s.	.....	.....	2	.....	4	.....	.....	0	0	cloudy.....	Pérès.
Tebessa	.....	.....	29.97	761.3	62.2	16.8	39	sw.	.....	.....	4	.....	0	.....	.....	0	0	clear.....	Dognon.
Geriville	.....	.....	.....	.....	47.8	8.8	68	nw.	.....	.....	2	.....	8	.....	.....	0	0	very cloudy	Louchainp.
Laghouat	.....	.....	29.99	761.8	59.0	15.0	37	se.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair..	Abraham.
Biskra	.....	.....	30.00	761.9	55.8	13.2	35	calm	.....	.....	0	.....	10	.....	.....	0	0	covered.....	Malau.
Australian.																			
Melbourne, Victoria	29.96	761.0	30.05	763.3	57.0	13.9	72	sse.	2	0.9	.....	.....	1	.....	.....	0	0	very fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.52	749.7	30.10	764.5	28.0	— 2.2	90	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.43	747.6	30.26	768.6	18.9	— 7.3	81	e.	9.8	4.4	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.28	743.6	30.23	767.8	19.8	— 6.8	57	n.	.....	.....	2	0	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.82	731.9	30.14	765.0	26.6	— 3.0	72	ese.	.....	.....	1	.....	10	.....	.....	0.059	1.5	.....	Andreas Rospini.
Hermannstadt	28.61	726.6	30.14	765.5	23.0	— 5.0	93	n.	.....	.....	1	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.43	722 0	29.84	757.8	27.5	— 2.5	79	ne.	.....	.....	4	c	9 k	.....	.....	0	0	al. covered..	The Staff.
Lemberg	29.22	742.2	30.31	769.8	12.9	—10.6	63	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.60	675.7	30.18	766.5	23.0	— 5.0	.....	calm	.....	.....	0	.....	3	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	29.68	753 8	29.80	756.8	40.3	4.6	65	ene.	.....	.....	5	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.65	753 2	30.10	764.6	25.9	— 3.4	70	ne.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Joseph Midlluszay, S. J.
Szegedin	29.81	757.2	30.11	764.8	29.7	— 1.3	59	ne.	.....	.....	4	.....	3	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.76	756.0	29.86	758.5	32.7	0.4	92	e.	.....	.....	5	.....	10	.....	.....	0.047	1.2	snowing.....	Royal Academy.
Vienna	29.36	745 8	30.12	765.1	27.0	— 2.8	70	se.	.....	.....	4	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'
British.																			
Aberdeen	29.68	753.9	29.78	759.4	41.4	5.2	73	se.	35	15.6	.....	.....	10	.....	.....	0	0	squally.....	W. Boswell
Armagh, Observatory	29.15	740.4	29.38	746.2	45.3	7.4	91	ese.	23	10.3	.....	.....	10	.....	.....	.....	.....	raining.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.56	750.8	40.3	4.6	96	ese.	25	11.2	.....	.....	10	.....	.....	.....	.....	raining.....	John Hartnup.
Bolton, Sharples	29.66	738.1	29.66	751.8	39.0	3.9	91	e	12	5.4	.....	.....	10	.....	.....	.....	.....	raining.....	Thomas Mackereth.
Bradford, Yorkshire	29.25	742.9	29.64	752.8	38.7	3.7	91	se.	.....	.....	2	.....	10	.....	.....	0.02	0.5	overcast.....	McLandsborough&Preston
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	80.5	26.9	69	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl.J.Surgenor, A. H.C.
Cardington	.....	.....	.....	.....	43.0	6.1	92	se.	.....	.....	0.4	.....	10	.....	.....	.....	.....	overcast.....	John McLaren.
Chatham, School M. E	29.49	749.0	29.63	752.6	39.9	4.4	96	se.	.....	.....	1	.....	10	.....	.....	.....	.....	misty.....	Corpl. G. A. Pickles.
Falmouth, Observatory	29.18	741.2	29.40	746.7	50.9	10.5	78	se.	.....	.....	5	.....	7	.....	.....	.....	.....	d. clouds.....	The Staff.
Fort Napier, Natal	27.37	695.2	29.59	751.6	85.6	29.4	42	e.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky.....	Corpl. F. Milner, A. H. C.
Galway	29.11	739.4	29.15	740.4	48	8.9	92	s.	.....	.....	4	.....	8	.....	.....	0.21	5.3	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	.....	.....	.....	.....	61.0	16.1	97	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	raining.....	Sgt. J. Norris, A. H C.
Glasgow, Observatory	29.40	746.7	29.60	751.8	41.0	5.0	75	e.	.....	.....	0	.....	10	.....	.....	blank	blank	overcast.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.44	747.8	29.62	752.3	39.9	4.4	95	ese.	.....	.....	1	.....	0	.....	.....	.....	.....	overcast.....	The Staff.
Guernsey	29.22	742 2	29.51	749.5	49.5	9.7	82	se.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.59	751.0	29.63	752.6	40.5	4.7	94	e.	6	2.7	.....	.....	10	.....	.....	.....	.....	misty.....	The Staff.
Leicester, Museum	29.37	746.0	29.63	752.6	40.5	4.7	94	se.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	J. C. Smith.
Malta, Mediterranean	29.74	755.4	29.81	757.2	65.0	18.3	64	sw.	.....	.....	2	.....	3	.....	.....	0	0	blue sky.....	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.12	765.0	30.17	766.3	67.0	19.4	55	n.	.....	.....	2	.....	5	.....	.....	blank	blank	d. clouds.....	C. S. Duncombe
Oscott, St. Mary's College	29.04	737.0	29.57	751.1	40.2	4.6	99	e.	.....	.....	5	.....	10	.....	.....	.....	.....	raining.....	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.37	746.0	29.60	751.8	41.0	5.0	93	e.	.....	.....	2	.....	10	.....	.....	.....	.....	misty.....	The Staff.
Plymouth	29.37	746.0	29.45	748.0	50.7	10.4	82	se.	.....	.....	4	.....	8	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.69	754.1	29.79	756.7	40	4.4	83	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	misty..	Rev. G. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.88	758.9	29.94	760.5	41.0	5.3	99	nne.	.....	.....	1	.....	10	.....	.....	.....	.....	gloomy.....	W. H. Lyne.
Sheffield	29.39	740.5	29.68	753.9	38.7	3.7	94	e.	.....	.....	1	.....	10	.....	.....	0	0	overcast.....	W. F. Cooper.
Silloth Rectory	29.55	750.6	29.58	751.3	40.4	4.7	81	sse.	.....	.....	4	.....	10	.....	.....	0	0	overcast.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.63	752.6	38.0	3.3	89	e.	11	4.9	.....	.....	10	.....	.....	.....	.....	overcast.....	Rev. S. J. Perry.
Strathfeld Turgiss	29.38	746 2	29.61	752.1	40.8	4.9	95	se.	.....	.....	0–1	.....	10	.....	.....	.....	.....	foggy.....	Rev.C.H.Griffiths, F.M.S.
Truro, Royal Institution	29.37	746.0	29.42	747.3	55	12.8	73	se.	.....	.....	4	.....	5	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.19	741.4	29.21	741.9	49.6	9.8	82	s.	29	13.0	.....	.....	10	.....	.....	.....	.....	misty.....	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.68	753.9	29 72	754.9	4	—15.6	97	nw.	8	3.6	.....	2 cs	2 s	w.	ne.	0.135	3.4	fair.....	H. J. Cundall, C. E
Chatham, N. B*	29.74	755.4	29.82	757.4	—13	—25.0	100	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	G. A. Blair.
Cornwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Dalhouse	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Father Point, Quebec*	29.85	758 2	29.87	758 7	—13	—25.0	78	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear.....	J. McWilliams.
Fort Garry, Manitoba*	29.42	747.3	30.43	772 9	—33	—36.1	100	n.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	James Stewart.
Halifax, N. S*	29.61	752.1	29.75	755.6	8	—13.3	91	nw.	8	3.6	.....	2 k	0	.....	.....	0 050	10.5	fair	A. Allison.
Kingston, Ontario*	29.61	752.1	29.99	761.7	— 4	—20.0	79	ne.	6	2.7	.....	5 cs	2 s	n.	calm	0	0	cloudy	A. P. Knight, M. A
Montreal, Quebec*	29.76	755.9	30.00	762.0	—10	—23.3	82	ne.	15	6.7	.....	.....	10 s	.....	.....	0	0	cloudy.....	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.27	743.4	30.04	763.0	3	—16.1	72	calm	0	0	.....	.....	10 n	.....	W.	0	0	cloudy.....	Rev. R. Mosley.
Port Dover, Ontario	29.22	742 2	29.98	761.5	7	—13.9	100	ne.	8	3.6	.....	.....	10 cs	.....	.....	0	0	cloudy.....	H. Morgan.
Port Stanley, Ontario	29.28	743.7	29.98	761.5	7	—13.9	80	n.	4	1.8	.....	.....	10 n	.....	n.	0	0	cloudy.....	M. Payne.
Quebec, Quebec*	29.00	751.8	29.97	761.2	—12	—24 4	100	w.	.....	.....	1	.....	10 k	.....	.....	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.49	749 0	30.01	762 2	— 2	—18.9	87	calm	0	0	.....	.....	hz	.....	.....	0	0	dense haze..	W. H. McIntyre.
Saugeen, Ontario*	29.24	742.7	30.02	762.5	7	—13.9	90	se.	4	1.8	.....	hz.	5 ks	.....	.....	0	0	cloudy.....	
St. Andrews, N. B	29.79	756.7	29.84	757.9	— 4	—20.0	100	n.	10	4.5	.....	.....	10 s	.....	.....	0.07	1.8	clear.....	
Sydney, C. B*	29.50	749.3	29.59	750.8	15	— 9.4	91	w.	14	6.3	.....	.....	10 n	.....	n.	0.05	10 5	cloudy.....	T. C. Hill, C. E
Toronto, Ontario*	29.66	751.8	30.02	762.5	2	—16.7	83	n.	8	3.6	.....	5 cs	2 s	w.	.....	0.02	0.5	cloudy.....	Magnetic Observatory.
Yarmouth, N. S*	29.71	754.6	29.79	756.7	11	—11.7	66	calm	0	0	.....	.....	10 s	.....	ne.	0.52	13.2	cloudy.....	Lt. F. E. Wilmot, R N.
Cape Colony.																			
Cape St. Francis L.t. House	29.77	756.1	29.80	756.9	72.5	22.5	82	wsw.	7.5	3.4	.....	0	5 k	.....	.....	0	0	hazy..	John Duthie.
Springbok Fontein	27.90	708 6	.....	.....	73	22.8	49	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
CHINESE (*Sub-series*).																			
Sung-shu-chwang	24.70	627.3	.....	.....	20.5	— 6.4	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.21	767.3	30.32	770.1	34.0	1.1	54	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	**Mission, S. J.**
Zi-Ka-Wei, near Shanghai	30.34	770.6	30.36	771.2	33.8	1.0	88	**e.**	**7.2**	**3.2**	.....	.....	3	.....	.....	0	0	fair	**M. Marc Dechevrens, S.J**
DANISH.																			
Copenhagen	30.16	766.1	30.21	767.3	32.2	0.1	79	**se.**	**13**	**6**	.....	.....	1	.....	.....	.....	.....	.....	**Oversergent Fischer.**
Fanoe	30.06	763.4	30.08	763.9	29.7	— 1.3	86	ese.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	29.03	737.3	29.07	738.4	21.4	— 5.9	93	**wsw.**	.....	.....	2	.....	10	.....	.....	.....	.....	snowing	**S. Kleinschmidt.**
Ivigtut, Greenland	29.20	741.7	29.22	742.2	16.3	— 8.7	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	snowing	
Jacobshavn, Greenland	29.23	742.5	29.28	743.7	36.3	2.4	.....	**se.**	.....	.....	7	.....	7	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.52	749.8	29.56	750.9	37.4	3.0	85	se.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.86	758.5	29.90	759.4	42.4	5.8	87	se.	**22**	**10**	.....	.....	10	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Vestervig	30.04	763.1	30.13	765.4	29.8	— 1.2	84	ese.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	**Loerer Oesterhol.**
Upernavik, Greenland	29.38	746.3	29.43	747.5	0.7	—17.4	.....	calm	.....	.....	0	.....	3	.....	.....	.....	.....	.....	
FRENCH.																			
Agen, Normal School	28.91	734.3	29.57	751.1	43.9	6.6	100	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.03	737.3	29.58	751.3	41.4	5.2	97	nne.	.....	.....	1	.....	fg	sse.	sse.	0	0	foggy	M. Nicot, Director.
Arras, Engineer School	29.39	746.4	29.65	753.2	35.2	1.8	90	.....	.....	.....	1	.....	10	.....	.....	0	0	foggy	**M. Fénéon, Commandt.**
Avignon, Normal School	29.51	749.6	29.89	751.0	53.2	11.8	74	e.	.....	.....	1	.....	5	.....	e.	0.83	21.	raining	M. Giraud, Director.
Bar-sur-Seine	29.05	737.8	29.61	752.2	43.2	6.2	87	sse.	.....	.....	1	.....	10	.....	sse.	0.118	3.0	covered	M. Saillard, Director.
Beauvais, Normal School	29.37	746.0	29.65	753.0	37.2	2.9	100	se.	.....	.....	1	.....	10	.....	.....	0	0	foggy	M. Frère Eugène Marie.
Besançon, Normal School	28.68	728.4	29.61	752.0	41.0	5	84	ne.	.....	.....	1	.....	.....	.....	ne.	0.413	10.5	.....	M. Gobin, Director.
Bordeaux, Observatory	29.19	741.5	29.45	748.1	51.4	10.8	64	e.	.....	.....	1	.....	1	.....	.....	0	0	almost clear	M. Rayet, Director.
Bourges, Normal School	29.12	739.6	29.67	753.7	43.2	6.2	94	se.	.....	.....	1	.....	n	.....	se.	0.055	1.4	.....	M. Malet, Director.
Brest, Naval Observatory	29.19	741.3	29.43	747.5	52.9	11.6	80	se.	.....	.....	2	.....	2	.....	se.	0.492	12.5	.....	M. de Kermaréc, Dir.
Caen, Normal School	29.46	748.2	29.53	750.1	43.0	6.1	85	n.	.....	.....	1	.....	1	.....	nw.	0.012	0.3	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.28	743.8	29.61	752.1	36.9	2.7	79	ssw.	.....	.....	2	.....	10	.....	.....	0.039	1.0	covered	M. Jadot, Director.
Charleville, Normal School	29.14	740.1	29.66	753.3	35.2	1.8	71	ne.	.....	.....	1	.....	10	.....	.....	0.020	0.5	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.19	716.0	29.56	750.7	43.7	6.5	85	w.	.....	.....	1	.....	8	.....	.....	0.201	5.1	very cloudy	M. Allnard, Director.
Cluny, Normal School	28.74	729.9	29.60	751.7	40.6	4.8	98	ne.	.....	.....	1	.....	fg	.....	ne.	0.488	12.4	foggy	M. de Villemontée, Dir.
Commercy, Normal School	28.80	731.5	29.70	754.3	33.4	0.8	92	e.	.....	.....	3	.....	5 n	e.	e.	0.04	1.	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.19	690.6	29.79	759.6	35.6	2	82	.....	.....	.....	.....	.....	10 n	.....	.....	0.098	2.5	.....	M. Jeangirard, Director.
Gréasque, du Rhone	28.49	723.6	29.62	752.3	47.7	8.7	83	se.	.....	.....	3	.....	8	.....	se.	1.606	40.8	.....	M. Kina, Director.
Grenoble, Normal School	28.84	732.6	29.63	752.6	41.4	5.2	84	e.	.....	.....	1	.....	kn	.....	s.	0.535	13.6	.....	M. Ablard, Director.
Guéret	27.96	710.2	29.54	750.2	42.8	6	70	se.	.....	.....	1	.....	k	.....	sw.	0	0	.....	**M. Delorme, Dir.**
Lamballe, Normal School	29.16	740.7	29.43	747.5	45.5	7.5	77	se.	.....	.....	2	.....	1	.....	se.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	28.78	731.1	29.34	745.2	51.8	11.0	68	se.	.....	.....	1	0	5 s	.....	.....	0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.36	745.7	29.46	748.3	50.4	10.2	78	e.	.....	.....	1	.....	2	.....	calm	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.55	725.1	29.61	752.2	43.9	6.6	96	se.	.....	.....	1	.....	10 n	.....	.....	0.551	14.0	foggy	M. André, Director.
Mans, Normal School	29.24	742.6	29.55	750.6	40.5	4.7	97	nne.	.....	.....	1	.....	8	.....	sw.	0.177	4.5	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.35	745.4	29.62	752.3	52.3	11.3	86	**ese.**	.....	.....	3	.....	10	.....	ese.	0.173	4.4	raining	M. Stephan, Director.
Montlouis	24.34	618.1	29.20	741.7	37.4	3.0	85	**nw.**	**13.0**	**5.8**	.....	.....	9	n.	.....	0.503	14.3	.....	**M. Caré for Dr. Finss.**
Montpellier, Normal School	29.42	747.3	29.55	750.0	49.8	9.9	92	nne.	.....	.....	3	.....	5	.....	.....	0.453	11.5	cloudy	M. Galzin, Director.
Nancy, Normal School	28.84	732.5	29.63	752.6	32.7	0.4	92	ne.	.....	.....	1	ck	0	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	29.37	745.9	29.53	750.0	53.2	11.8	66	ese.	.....	.....	0–1	1 c	0	e.	.....	0.043	1.1	.....	M. Larocque, Director.
Perpignan, Observatory	29.38	746.3	29.49	749.1	52.3	11.3	81	s.	**5.6**	**2.5**	.....	.....	7	sw.	.....	0.559	14.2	.....	Dr. Flues, Director.
Pic-du-Midi, Summit	20.68	525.2	.....	.....	23.4	— 4.8	.....	**sw.**	.....	.....	1	.....	5	.....	sw.	0	0	cloudy	**M. Vaussenat.**
Privas, Normal School	28.47	723.1	29.54	750.3	46.0	7.8	89	s.	.....	.....	1	.....	10	s.	s.	1.10	28.	covered	M. Taillen.
Puy de Dôme Obs'y, Summit	24.65	626.2	.....	.....	31.3	— 0.4	100	se.	.....	.....	3	.....	10	.....	.....	0.094	2.4	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.45	747.9	29.48	748.7	50.4	10.2	89	**ese.**	.....	.....	1	.....	0	.....	.....	0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.27	743.5	29.48	748.9	49.1	9.5	69	sse.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Brotier, Director.
Rodez, Normal School	27.30	693.4	29.45	748.1	44.6	7.0	91	w.	.....	.....	2	.....	n	.....	nw.	0.020	0.5	.....	M. Seger, Director.
Rouen, Normal School	29.57	751.1	29.62	752.3	40.6	4.8	90	se.	.....	.....	1	.....	10	se.	.....	0	0	covered	M. Moullot.
Saint Lô	.....	.....	.....	.....	46.8	8.2	74	e.	.....	.....	1	.....	5	.....	e.	0	0	cloudy	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.46	748.2	29.62	752.4	39.6	4.2	91	e.	.....	.....	1	.....	10	.....	.....	0	0	.....	M. Renou, Director.
Toulouse, Observatory	28.80	731.4	29.50	749.4	50.5	10.3	73	sse.	.....	.....	3	.....	5	.....	se.	0	0	cloudy	M. Baillaud, Director.
Tours	29.36	745.7	29.54	750.2	47.5	8.6	86	ene.	.....	.....	1	.....	0	.....	.....	0.161	4.1	clear	M. de Tastes.
Versailles, Observatory	29.11	739.5	29.61	752.0	37.8	3.2	100	se.	.....	.....	1	.....	.....	.....	.....	0.012	0.3	.....	Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	29.28	743.8	29.43	747.6	52.3	11.3	61	e.	**7.8**	**3.5**	.....	5 ck	0	sw.	.....	0	0	.....	**M. Cartier, Director.**
GERMAN.																			
Ansbach	28.29	718.5	29.80	756.8	31.3	— 0.4	60	e.	.....	.....	4	.....	8	e.	.....	0	0	.....	**Prof. Jnedt.**
Bamberg	28.93	734.9	29.77	756.2	33.4	0.8	66	calm	.....	.....	0	0	10 s	.....	.....	0	0	.....	**Prof. Dr. Hoh.**
Berlin	29.97	761.1	30.12	765.0	28.4	— 2.0	58	e.	.....	.....	5	.....	1	.....	.....	0	0	.....	**Dr. Lensch.**
Breslau	29.68	753.8	30.21	767.4	24.4	— 4.2	73	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	**Royal University Obs'y.**
Carlsruhe	29.26	743.1	29.70	754.4	37.0	2.8	49	ne.	.....	.....	2	.....	10	sw.	.....	0	0	.....	Albert Senz.
Cassel	29.11	739.4	29.82	757.5	29.7	— 1.3	73	e.	.....	.....	2	.....	0	se.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.42	747.2	29.80	756.9	35.4	1.9	59	ne.	.....	.....	2	.....	8	.....	.....	0	0	.....	**Physical Society.**
Friedrichshafen	28.22	716.9	29.71	754.7	33.8	1.0	66	e.	.....	.....	3	.....	10	e.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	29.95	760.6	30.04	762.9	27.3	— 2.6	70	ese.	.....	.....	0	.....	2	.....	.....	0	0	hazy	E. Preller.
Kiel	30.09	764.2	30.10	764.6	29.1	— 1.6	75	e.	.....	.....	5	.....	1	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.56	750.9	30.00	762.1	29.8	— 1.2	73	e.	.....	.....	4	.....	2	.....	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	29.82	757.5	30.02	762.6	32.0	0.0	50	e.	.....	.....	3	0	0	.....	.....	0	0	hazy	**Weather Observatory.**
Memel	30.27	768.8	30.32	770.0	18.0	— 7.8	83	s.	.....	.....	3	0	4 ks	.....	.....	.....	.....	.....	Issermann.
Munich	27.86	707.7	29.71	754.5	30.4	— 0.9	67	e.	.....	.....	1	.....	9	nw.	.....	0	0	.....	**Central Station.**
Neufahrwasser	30.27	768.9	30.29	769.3	27.7	— 2.4	77	sw.	.....	.....	1	.....	4	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.17	741.0	29.70	754.3	34.3	1.3	70	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Dicknether.
Stuttgart	28.74	730.1	29.67	753.5	34.2	1.2	70	e.	.....	.....	2	.....	10	.....	.....	0	0	.....	**Prof. Dr. Schoder.**
Wustrow	30.17	766.4	30.20	767.0	25.0	— 3.9	93	ese.	.....	.....	2	0	3 s	.....	.....	0	0	.....	**Profs. Brandes & Reimer.**
GREEK.																			
Athens	29.43	747.6	29.82	757.4	59.5	15.3	.....	sw.	.....	.....	1.0	0	2 k	.....	.....	0.039	1.0	.....	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	30.12	765.2	30.18	766.4	75.1	23.9	43	e.	**20.0**	**8.9**	.....	.....	7	ese.	.....	0	0	d. clouds	
Deesa	29.58	751.2	30.06	763.4	79.4	26.3	29	nw.	**10.0**	**4.5**	.....	.....	7	nw.	.....	0	0	d. clouds	
Bombay	29.94	760.3	29.97	761.3	81.0	27.2	67	nw.	**13.0**	**5.8**	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.11	714.1	29.97	761.2	81.3	27.4	23	ene.	**9.0**	**4.0**	.....	.....	0	.....	.....	0	0	blue sky	
Belgaum	27.41	696.3	29.96	760.9	76.8	24.9	31	e.	**12.0**	**5.4**	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.34	745.4	30.12	765.1	62.1	16.7	56	calm	0	0	.....	.....	5	.....	.....	0	0	d. clouds	
Roorkee	29.15	740.5	30.09	764.2	64.8	18.2	49	w.	**1.0**	**0.4**	.....	.....	3	.....	w	0	0	.....	
Agra	29.55	750.5	30.13	765.4	69.2	20.7	44	w.	**4.0**	**1.8**	.....	.....	4	.....	w	0	0	d. clouds	
Nagpur	28.99	736.4	30.05	763.3	77.0	25.0	45	ese.	**3.0**	**1.3**	.....	.....	4	w.	.....	0	0	d. clouds	
Jubbulpore	28.73	729.7	30.12	765.1	69.7	20.9	53	n.	**4.0**	**1.8**	.....	.....	3	n.	.....	0	0	d. clouds	
Lucknow	29.72	754.8	30.11	764.8	68.3	20.2	45	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.79	756.8	30.12	765.1	61.8	16.6	89	calm	0	0	.....	.....	2	w.	.....	0	0	d. clouds	
Patna	29.94	760.3	30.13	765.3	64.2	17.9	74	w.	**2.7**	**1.2**	.....	.....	2	w.	w.	0	0	d. clouds	
Hazaribagh	28.04	712.1	30.13	765.3	60.7	15.9	79	n.	**5.7**	**2.6**	.....	.....	3	.....	.....	0	0	d. clouds	
Cuttack	29.98	761.6	30.07	763.7	77.0	25.0	58	nw.	**2.0**	**0.9**	.....	.....	3	.....	s.	0	0	d. clouds	
Calcutta, Alipore	30.07	763.7	30.09	764.2	69.0	20.6	67	nnw.	**1.0**	**0.4**	.....	.....	1	.....	.....	0	0	d. clouds	
Dhubri	29.99	760.9	30.08	764.1	65.0	18.3	63	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.98	761.6	30.08	763.9	68.6	20.3	70	w.	**2.6**	**1.2**	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.76	755.8	30.11	764.8	61.4	16.3	85	ne.	**2.0**	**0.9**	.....	.....	4	.....	.....	0.15	3.8	blue sky	
Zanzibar	29.76	755.9	29.78	756.4	86.5	30.3	62	ne.	**10.6**	**4.7**	.....	.....	2	.....	.....	0	0	d. clouds	
Jeypore	28.66	727.8	30.16	765.9	64.7	18.2	64	nw.	**2.3**	**1.0**	.....	.....	9	nw.	.....	0	0	d. clouds	
Bellary	28.51	724.1	.....	.....	78.6	25.9	36	e.	**6**	**2.7**	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.74	755.4	.....	.....	79.5	26.4	60	ne.	**1**	**0.4**	.....	.....	6	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.49	749.1	29.91	759.8	32.9	0.5	70	se.	11.9	5.3			10			0.272	6.9		Prof. Giovanni Clodig.
Milan	29.32	744.6	29.85	758.3	34.2	1.2	92	e.	0.7	0.3			10			0.134	3.4		Prof. Schiapparelli.
Padua	29.74	755.4	29.85	758.3	35.4	1.9	89	ene.	19.2	8.6			10	e.		0.866	22.0		Prof. Dott. Lorenzoni.
Moncalieri	28.88	733.6	29.83	757.6	34.7	1.5	94	ne.	0	0			10			0.583	14.8		Prof. F. F. Denza.
Genoa	29.54	750.4	29.74	755.3	39.2	4.0	67	ne.	10.5	4.7			10	s.		0.900	23.0		Prof. G. M. Garibaldi.
Mondovi	27.86	707.7	29.85	758.2	35.2	1.8	66	w.			2		8			0	0		Prof. D. C. Bruno.
Pesaro	29.75	755.6	29.80	756.9	37.8	3.2	90	w.	3.1	1.4			10			0.386	9.8		Prof. Luigi Guidi.
Florence	29.46	748.3	29.72	754.9	46.6	9.2	84	se.			2		9			0.882	22.4		Prof. Costantino Pittei.
Leghorn	29.57	751.2	29.66	753.4	51.1	10.6	82	e.	9.8	4.4			7			0.925	23.5		Prof. P. Monte.
Rome	29.54	750.2	29.71	754 7	56.8	13.8	74	wsw.	3.8	1.7			8	sw.		0.500	12.7		Prof. P. Tachini.
Lecce	29.49	749.0	29.74	755.5	58.8	14.9	73	ssw.	0.3	2.8			3			0.331	8.4		Prof. C. de Giorgi.
Cosenza	28.90	734.1	29.80	756.9	54.3	12.4	77	wsw.	2.5	1.1			5	sw.		0	0		Prof. D. Conti.
Cagliari	29.47	748 4	29.66	753.4	59.5	15.3	69	calm			0		10			0	0		Prof. A. Pacinotti.
Palermo	29.54	750.4	29.80	756.8	62.4	16.9	51	sw.	4.9	2.2			2			0	0		Prof. G. Cacciatore.
Syracuse	29.75	755.6	29.79	756.7	61.9	16.6	72	sw.	0.9	3.1			5	sw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.24	742.8	29.76	756.0	57.2	14.0	80	sw.	4.3	1.9			7	nw.		0.094	2.4		Prof. F. Brioschi.
Stelvio	21.79	553.5			23.0	— 4.5	98	ne.					1			0	0	misty	Prof. P. F. Denza.
Valdobbia	21.78	553.3			21.6	— 5.8	70	e.			2		10			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.75	755.5	29.78	756.3	28.5	— 1.9	82	w.			4		10 n		w.	0.130	3.3	snowing	Hattori.
Awomori	29.62	752.3	29.66	753.3	23.7	— 4.6	72	nw.	41.2	18.4		0	8 8			0.059	1.5	cloudy	K. Ogawa.
Hakodate	29.53	750.0	29.54	750.3	26.6	— 3.0	90	w.	27.0	12.1		0	7			0	0	cloudy	
Hamamatsu	29.98	761.5	30.01	762.2	42.6	5.9	62	w.			4	0	0			0.024	0.6	clear	
Kagoshima	30.26	768.5	30.27	768.8	42.0	5.6	84	n.			2	1 cs	6 8			0	0	fair	G. Miyanohaza.
Kioto	29.89	759.2	30 07	763.8	42.7	5.9	65	w.	3.2	1.4			9 s;ck		nw.	0	0	cloudy	M. Tojima.
Kochi	30.12	765.0	30.14	765.5	38.9	3.8	82	nw.	2.7	1.2		0	0			0	0	clear	K. Kusunose.
Miasaka	30.21	767.2	30.23	768.0	43.9	6.6	66	w.			2	0	0			0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.06	763.5	30.27	768.8	46.3	7.9	62	n.	2.7	1.2		0	0			0	0	clear	S. Takehayashi.
Niigata	29.87	758.7	29.90	759.4	36.4	2.4	79	w.	23.4	10.5			10ck;8		nw.	0.055	1.4	covered	M. Morita.
Nobiru	29.73	755.1	29.74	755.5	33.6	0.9	89	nw.	25.9	11.6		0	9 n			0.000	1.5	snowy	H. Midzushina.
Numazu	29.83	757.8	29.87	758.7	48.5	9.2	51	ssw.			4	0	0			0	0	clear	R. Kaneda.
Sakai	30.10	764.5	30.11	764.8	44.7	7.1	57	w.			4		9 ks		w.	0	0	cloudy	K. Yamawchi.
Sapporo					26.0	— 3.3	94	nw.	2.4	1.1			10			0.115	2.9	covered	
Tokei Obs'y, Yeddo	29.78	756.4	29.85	758.3	36.6	2.6	75	w.	1.8	0.8		0	0			0	0	clear	The Staff.
Wakayama	30.07	763.7	30.12	765.1	45.2	7.3	55	nw.	1.4	0.6		3 ck	7 ck		nw.	0	0	cloudy	Y. Kuwamura.
Osaka	30.08	763.9	30.09	764.3	39.1	3.9	69	w.	9.5	4.2		0	1 8		w.	0	0	clear	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.73	755.1	29.92	760.0	81.5	27.5	66	ne.	16.5	7.4		2 cs,c	7 ks;ku		w.	ene.	0	0	cloudy	Oliver & Figon.
MEXICAN.																			
Altata					64	17.8	92	nw.										dense fog	H. Diaz Pena.
Guanajuato	23.73	602.6	29.95	760.6	43.5	6.4	65	nw.	inap.	inap.		0	0			0	0	foggy	Prof. Vicente Fernandez.
Leon	24.40	619.7	30.37	771.4	37.8	3.2	86	calm				0	0			0	0	dense fog	Prof. M. Leal.
Mazatlan	29.78	756.5	30.05	763.2	59.5	15.3	85	e.	5.3	2.3		0	0			0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.6	30.45	773.5	36.1	2.3	66	calm	0	0		0	0			0	0	very fine	The Staff.
Morelia	24.47	621.5	30.37	771.3	43.7	6.5	71	s.			1	0	0			0	0	blue sky	M. Tena, M. D.
Puebla, Catholic Institute	23.42	594.8	30.40	772.0	33.8	1.0		calm	0	0		0	0			0	0	clear	Prof. P. Spina.
Zacatecas	22.56	573.0	30.33	770.4	43.8	6.4	40	sw.	3.1	1.4		0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.67	753.7	29.67	753.7	36.3	2.4		ese.			4					0	0		
Groningen	29.80	756.8	29.85	758.2	29.7	— 1.3		se.			5					0	0		
Helder																			
Hellevoetsluis	29.70	754.3	29.70	754.3	33.4	0.8	100	e.			3					0	0		
Utrecht	29.70	754.4	29.75	755.6	34.7	1.5	59	e.			3		5			0	0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.7			77.9	25.5	90	n.	0	0			5			1.30	33.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.06	763.5	30.12	765.1	33.1	0.6	85	sse.	2	1			6			0	0		
Brono	30.03	762.7	30.07	763.7	35.2	1.8	90	s.	9	4			8			0.020	0.5		
Christiania	30.04	763 1	30.20	767.1	26.2	— 3.2	89	wsw.	0	0			7			0	0	foggy	
Gjesvaer	29.69	754.0	29.71	754.6	23.9	— 4.5		nw.			7		10						
Lodingen	29.91	759.6	29.95	760.8	31.8	— 0.1	68	calm			0		5			0.004	0.1		
PORTUGUESE.																			
Angra, Azores	29.72	754.8	29.87	758.7	59.4	15.2	93	nw.	8.1	3.6			4			0	0		Dr. J. A. Sampaio.
Campo Major	28.56	726.0	29.58	751.4	53.1	11.7	78	sw.	9.4	4.2			9			0.354	9.0		Dr. A. M. R. dos Santos.
Funchal, Madeira	29.03	752.4	29.71	754 6	64.0	17.8	91	w.	15.0	6.7			10			0.512	13.0	raining	Capt. D. A. de Cunha.
Lisbon, Observatory	29.17	740.8	29.52	749.9	54.3	12.4	70	ssw.	14.3	6.4			9			0.030	10.1		The Staff.
Ponta Delgada, Azores	29.81	757.2	29.88	759.0	59.7	15.4	64	nnw.	9.8	4.4			3			0.197	5.0		
Saint Paul de Loando	29.69	754.2	29.89	759.3	77.4	25.2	90	nw.	1.8	0.8			8			0	0		
Serra da Estrella	24.72	627.9	29.52	749.8	32.5	0.3	100	wnw.	24.8	11.1			10			0.799*	20.3*	snow & fog	
RUSSIAN.																			
Akmolinski	29.08	738.6	30.28	769.1	3.0	—16.1	90	sw.	4	2		0	0			0	0		Major K. Lasarew.
Archangel	29.85	758 3	29.87	758.8	—22.7	—30.4	77	ese.	4	2			10			0	0		Capt. Sselliwerstow.
Ashurada	29.82	757.5	29.73	755.1	59.4	15.2	63	ese.	7	3		9 ck	0			0	0		
Astrakhan	29.74	755.3	29.06	753.2	20.1	— 3.3	82	nne.	7	3			10			0.012	0.3	heavy cl'ds.	Capt. Wisganow.
Baku	29.73	755.1	29.08	753.9	47.2	8.5	60	sw.	13	6		0	2 ks			0	0		
Barnaul	29.59	751.5	30.12	765.0	22.3	— 5.4	87	sw.	0	4			10			0.008	0.2		Meteorological Obs'y.
Bielosarsk	29.44	747.7	29.97	761.3	—15.2	—26.2	85	wnw.	4	2		0	1 8			0.008	0.2		
Dorpat	29.92	760.0	30.19	766.9	3.0	—16.1	95	w.	4	2			10 n			0.028	0.7		Observatory.
Ekaterinburg	28.78	731.0	29.85	758.1	— 4.9	—20.5	90	calm	0	0		0	1 8			0.024	0.6		Meteorological Obs'y.
Elisawetgrad	29.59	751.5	30.10	764.4	— 3.3	—19.6	75	nw.	9	4			10 n			0	0		
Irkutsk	28.45	722.5	30.31	769.8	— 7.8	—22.1	88	calm				0				0.031	0.8		
Kasan	29.45	748.0	29.70	755.9	—19.3	—28.5	73	sse.	2	1			10			0.012	0.3		Observatory.
Kem	29.05	753.2	29.71	754.5	10.0	—12.2	89	wsw.	22	10			10 n			0.024	0.6		
Kertch	29.92	760.0	29.94	760.5	9.0	—12.8	88	nw.	11	5		0	5 k			0	0		Lagorio & Sastyrez.
Kieff	29.40	746.8	30.11	764.8	— 0.4	—18.0	84	n.	11	5		2 c	0			0.008	0.2	light clouds	Observatory.
Koslov	29.15	740.3	29.75	755 6	—17.9	—27.7	85	wsw.	4	2		5 cs	0			0	0		
Libau	30.22	767 6	30.24	768.2	22.8	— 5.1	74	se.	9	4			10			0	0		E. Quaas.
Lugan	29.49	749.1	29.70	754.3	2.7	—16.3	70	nnw.	9	4			10			0.008	0.2		Meteorological Obs'y.
Moscow	29.25	743.0	29.79	756 7	— 2.0	—18.9	82	calm	0	0		0	0			0	0		
Nikolaiev	30.05	763.2	30.12	765.1	— 5.0	—15.0	82	nw	22	10		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.09	754.1	29.78	756.3	— 0.8	—18.2	66	calm	0	0			10			0.047	1.2		Iwanow.
Pekin, China	30.14	765.5	30.28	769.1	33.4	0.8	34	calm	0	0		0	0			0	0		Physical Observatory.
Petrozavodsk	29.74	755.4	29.97	761.2	—17.3	—27.4	80	nw.	7	3		c	8 ks			0.039	1.0		Dr. Bergmann.
Pinsk	29.74	755.4	30.29	769.4	0.3	—14.3	70	nw.	4	2		0	0			0.004	0.1		
Poti	29.88	758 9	29.90	759.4	39.9	4.4	79	e.	4	2			10 n			0.122	3.1	raining	
St. Petersburg	30.00	763.0	30.08	764.0	—15.2	—26.2	84	nnw.	2	1		10 c	0			0	0		Central Physical Obs'y.
Samarkand																			
Sevastopol	29.80	759 9	29.97	761 1	12.2	—11.0	65	nne	27	12		0	3 n			0.004	0.1		
Semipalatinsk	29.62	752.4	30.31	769 8	27.7	— 2.4	92	wsw.	9	4			10			0.059	1.5		Major Lasarew.
Staroi Bykhov	29.00	753.3	30.18	766.5	— 2.2	—19.0	70	nw.	9	4						0	0		
Tiflis	28 36	720.4	29.81	757.1	41.5	5 3	44	nnw.	9	4		6 cs	0			0	0		Physical Observatory.
Tomsk	29.72	754.9	30.04	762.9	— 5.1	—20.6	90	calm	0	0			1 8						
Vlatka	29.17	740.9	29.89	759 2	—18.8	—28.2		e.	2	1			0			0	0		
Warsaw	29.80	758.4	30.32	770.2	13.1	—10.5	73	s.	4	2		0	0						Astronomical Obs'y.

*Total for 2 days.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Wilna	29.85	758.2	30.32	770.1	5.0	—15.0	77	w.	2	1			0			0.008	0.2		Berg, Assistant.
Yeniseisk	29.98	761.6	30.32	770.0	—12.1	—24.5	82	calm	0	0			3			0	0		M. O. Marks.
Scottish.																			
Monach Lt			29.50	749.3	45	7.2	92	ese.			7		10			0	0	overcast	J. Youngclause.
North Unst			30.01	762.2				s.			6		10			blank	blank		Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.43	747.5	29.54	750.2	48.2	9.0	88	nw.	3.4	1.5			10			0.079	2.0	covered	Antonio Reve, Director.
Bilbao, Met. Obs'y	29.38	746.3	29.44	747.8	54.0	12.2	56	s.	5.4	2.4		3	4	s.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.59	673.0	29.50	749.3	41.4	5.2	81	s.	7.8	3.6			10			0.043	1.1	covered	Domingo Martin.
Madrid, Royal Obs'y	27.28	692.8	29.53	750.0	43.3	6.3	98	sw.	11.0	4.9			10			0.323	8.2	rainy	The Staff.
Murcia, Met. Obs'y	29.41	746.9	29.53	750.1	60.8	16.0	65	ese.	1.6	0.7		2	4	w.		0.248	6.3	cloudy	Olayo Diaz, Director.
Oviedo	28.51	724.1	29.39	746.4	50.9	10.5	98	e.	7.2	3.2		5 n	5 k	w.	w.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.43	722.1	29.31	744.5	51.3	10.7	86	s.	3.8	1.7			10			0.370	9.4	covered	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.97	761.2	30.02	762.6	76.7	24.8	78	ne.	19.7	8.8		0	0			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.62	752 3	29.72	754.8	59.4	15.2	76	w.	12.2	5.5		0	8		w.	1.318	33.5		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I.	30.01	762.3	30.10	764.6	72.7	22.6	98	calm	0	0		2 k	4 k	sw.	sw.	0	0	clear	Manuel Maese.
Swedish.																			
Haparanda	29.84	757.8	29.87	758.8	2.5	—16.4	90	sw.			2		0			0	0		
Umea	29.89	759.2	29.94	760.5	16.9	— 8.4	100	calm			0		7			0	0		
Hernosand	30.00	762.1	30.06	763.4	16.9	— 8.4	94	calm			0		8			0	0		
Stockholm	29.97	761.1	30.14	765.6	24.8	— 4.0	73	wsw.			4		10			0	0		
Wisby	30.14	765.5	30.20	767.0	29.8	— 1.2	69	nw.			2		10			0.087	2.2		
Sub-series.																			
Upsala	30.02	762.4	30.10	764.6	21.6	— 5.8	98	sw.	11.2	5.0			8	nw.	nw.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28 22	716.9	29.71	754.6	36.5	2.5	96	sw.			2		10			0.358	9.1	foggy	The Observatory.
Turkish.																			
Constantinople			29.98	761.6	41.2	5.1	69	n.	13	6.0			10		n.	0	0		The Observatory.
Valona			29.80	756.9	58.3	14.6		sw.			1		5					rainy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.02	762.5	62.1	16.7	81	sw.			2		7 n		sw.	1.06	26.9		Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.57	674.9			31	— 0.6	80	n.			1	0	0			0	0	foggy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.87	758.7	29.96	761.0	3	—16.1	76	nw.	6	2.7			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.33	745.0	30.04	763.0	15	— 9.4	100	n.	3	1.3			10 n			0.04	1.0	light snow.	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.11	637.8	30.23	767.8	19	— 7.2	61	ne.	2	0.9		0	0			0	0	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	26.77	679.9	29.81	757.2	39	3.9	50	sw.	16	7.2			10 s		w.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.82	732.0	30.05	763.3	29.0	— 1.7	82	w.	21	9.4		0	7 k		nw.	inap.	inap.	fair	H. C. Smith.
Atlantic City, New Jersey	29.82	757.4	29.84	757.9	18	— 7.8	84	n.	13	5.8			10 n			0.42	10.7	heavy snow	Jas. M. Watson.
Augusta, Georgia	29.80	756.9	30.00	762.0	36	2.2	61	w.	6	2.7		0	0			inap.	inap.	clear	John Healy.
Baltimore, Maryland	29.81	757.2	29.86	758.4	20	— 6.7	70	n.	4	1.8		10 cs	fg.	w.		0.10	2.5	cloudy	Geo W Felger.
Barnegat, New Jersey	29.80	756.9	29.82	757.4	25.0	— 3.9	88	ne.	20	8.9			10 s		e.	0.12	3.0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.34	745 2	29.36	745.7	26.5	— 3.1		ne.	10	4.5		0	7 n			0.02	0.5	fair	Leonard Steineger.
Bennett, Fort, Dakota	28.59	726.2	30.33	770.4	12	—11.1	64	se.	8	3.6			10 s			0	0	cloudy	A. Pritchard
Benton, Fort, Montana	26.80	680.7	29.78	756.4	44	6.7	37	sw.	3	1.3			10 s		sw.	0	0	cloudy	S. Wheaton.
Billings, Montana	26.62	676.1			34	1.1		w.	32	14.3			10 s			0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.30	718 8	30 29	769.4	3	—16.1	76	se.	6	2.7			10 s			inap.	inap.	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.81	757.2	29.84	757.9	17	— 8.3	83	n.	19	8.5			10 s			0.16	4.1	cloudy	J. T. Elker.
Boise City, Idaho	27.28	692.9	30.21	767.3	22	— 5.6	100	nw.	3	1.3			10 n			inap.	inap.	light snow.	B. E. Light.
Boston, Massachusetts	29.68	753.9	29.86	758.4	10.0	—12.2	58	nw.	15	6.7		0	8 s		nw.	0.09	2.3	cloudy	O. B. Cole.
Brownsville, Texas	30.18	766.6	30.23	767.8	47.4	8.6	93	calm	0	0		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.14	740.1	29.94	760 5	10.2	—12.1	85	n.	12	5.4			10 s		n.	inap.	inap.	cloudy	W. Finn.
Buford, Fort, Dakota	27 92	709.2	30.12	765.0	16	— 8.9	83	e.	5	2.2			10 s			0	0	cloudy	F. A. Mellen.
Burlington, Vermont	29.67	753.6	29.98	761.5	—10.4	—23.6	55	ne.	7	3.1			10 s		n.	0	0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.86	758.4	30.28	769.1	15.0	— 9.4	76	n.	12	5.4		0	0			0.02	0.5	clear	W. H. Ray.
Cape Henry, Virginia	29.84	757.9	29.86	758.4	21	— 6.1	58	w.	3	1.3		2 c	1 k		w.	0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.82	757.4	29.85	758.2	23.0	— 5.0	61	n.	12	5.4		0	7 s		n.	0.66	16.8	fair	W. E. Smith.
Cape Mendocino, California	29.35	745.5	30.05	763 3	39	3.9	89	n.	20	8.9		0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.11	764.8	30.13	765 3	51	10.6	59	nw.	24	10.7		0	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.24	742.7	30.11	764.8	10.0	—12.2	58	nw.	14	6.3			10 s		nw.	0.21	5.3	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.87	758.7	29.93	760.2	39	3.9	65	w.	12	5.4		0	8 s		w.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	28.97	735.8	29.86	758.4	24.0	— 4.4	88	nw.	4	1.8		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.27	743.4	30.13	765 3	18.0	— 7.8	67	nw.	9	4.0		0	1 ks			0.11	2.8	clear	B. L. Goulding.
Cheyenne, Wyoming	23.99	609.3	30.24	768.1	37.2	2.9	40	nw.	16	7.2		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.31	744 5	30.06	763.5	21.8	— 5.7	85	nw.	6	2.7			10 s			0.13	3.3	cloudy	J. Mitchell.
Chincoteague, Virginia	29.82	757.4	29.84	757.9	22.5	— 5.3	88	nw.	1	0.4			10 ks		nw.	inap.	inap.	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.45	745.5	30.04	763.0	19	— 7.2	84	nw.	9	4.0			10 n		w	0.10	2.5	light snow.	R. B. Watkins.
Cleveland, Ohio	29.14	740.1	29.92	760.0	15.7	— 9.1	100	n.	18	8.0			10 n			0.03	0.8	light snow.	J. B. Newlin.
Coleman City, Texas	28.42	721.9	30.30	769.6	28	— 2.2	88	calm	0	0		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.04	737.6	29.94	760.5	18	— 7.8	67	nw.	14	6.3			10 s		nw.	0.28	7.1	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.27	718.0	30.29	769.4	28.0	— 2.2	77	calm	0	0		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.52	749.8	30.22	767.6	7	—13.9	52	nw.	8	3.6		0	0			0.01	0.3	clear	W. B. Lamar.
Davis, Fort, Texas	25.32	643.1	30.30	769.6	29	— 1.7	70	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.11	714.0	29.91	759 7	32	0.0	81	ne.	2	0.9		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.22	640.6	30.16	766.1	30	— 1.1	92	sw.	5	2.2			10 s			0	0	cloudy	F. Wilson.
Delaware Breakwater, Del.	29.83	757.7	29.85	758 2	20	— 6.7	76	nw.	8	3.6		0	3 k		nw.	0.15	3.8	clear	T. S. Townsend.
Denison, Texas	29.51	749.5	30.35	770.9	31.0	— 0.6	68	ne.	6	2.7		0	0			0	0	clear	J. W. Byram.
Denver, Colorado	24.71	627.6	30.23	767.8	37.0	2.8	44	s.	3	1.3		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.38	746.2	30.35	770.9	— 5	—20.6	62	n.	3	1.3		0	0			inap.	inap.	clear	F. W. Conrad.
Detroit, Michigan	29.27	743.4	30.03	762.7	9.0	—12.8	87	n.	9	4.0		0	0			0.02	0.5	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.59	700.8	30.34	770 6	20	— 6.7	87	e.	7	3.1		0	0			0	0	clear	V. P. Temple.
Dubuque, Iowa	29.45	748.0	30.22	767.6	7.2	—13.8	55	nw.	2	0.9		0	0			0.06	1.5	clear	J. Harvey Smith.
Duluth, Minnesota	29.50	749.3	30.31	769 9	0	—17.8	68	nw.	16	7.2			10 s		nw.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.45	748.0	30.29	769.4	35.0	1.7	64	calm	0	0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.32	643.1	30.28	769 1	1	—17.2	75	n.	5	2.2		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.77	756.1	29.84	757.9	0.0	—17.8	68	n.	14	6.3		6 c	1 s	w.	n.	0.06	1.5	fair	D. C. Murphy.
Elliott, Fort, Texas	27.40	695.9	30.33	770.4	24	— 4.4	64	calm	0	0		0	0			0	0	clear	W. J. Caudall.
El Paso, Texas	26.38	670.0	30.26	768.6	29.0	— 1.7	59	calm	0	0		0	2 s			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.14	740.1	29.91	759.7	15	— 9.4	83	e.	8	3.6			10 s		e.	0	0	cloudy	Peter Wood.
Escanaba, Michigan	29.38	746.2	30.10	764 5	15.0	— 9.4	83	nw.	7	3.1		0	2 s		nw.	0.04	1.0	clear	George Heathcote.
Fredericksburg, Texas	28.47	723.1	30.29	769.4	36	2.2	82	nw.	2	0.9		0	0			0	0	clear	Frank Halwegler.
Galveston, Texas	30.22	767.6	30.27	768 8	49	9.4	77	n.	7	3.1		0	hz.			0	0	clear	E. O'C. Machnerney.
Grand Haven, Michigan	29.36	745 7	30.07	763 8	14.5	— 9.7	82	ne.	6	2.7		0	9 s			0.05	1.3	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.29	642.4	30.19	766 8	37	2.8	58	e.	6	2.7			10 s			0	0	cloudy	Robert C. Lord.
Hatteras, North Carolina	29.86	758 4	29.88	758.9	35	1.7	89	nw.	14	6.3		hz.	3 k		w.	0.03	0.8	clear	R. M. Crawford.
Helena, Montana	25.60	650.2	30.03	762.7	33	0.6	81	calm	0	0		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas																			J. P. Sherry.
Huron, Dakota	28.87	733 3	30.41	772.4	1	—17.2	46	nw.	5	2.2		0	5 s			inap.	inap.	fair	S. W. Glenn.
Indianapolis, Indiana	29.20	741 7	30.04	763.0	13	—10.6	70	w.	5	2.2		0	8 s		w.	0.15	3.8	cloudy	J. F. Jirdinston.
Indianola, Texas	30.26	768.6	30.29	769 4	46.2	7.9	83	ne.	9	4.0		0	0			0	0	clear	I. A. Reed.
Jacksboro, Texas	29.08	738.6	30.32	770.1	32	0.0	50	se.	1	0.4		0	0			0	0	clear	D. J. Carr.
Jacksonville, Florida	30.00	762 0	30.05	763 3	49	9.4	56	w.	8	3.6		hz.	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.32	693 9	30.01	762.2	26	— 3.3	76	se.	4	1.8			10 s			0	0	cloudy	A. Schneider.
Keokuk, Iowa	29.59	750.8	30.26	768.6	20	— 6.7	72	nw.	8	3.6		0	0			inap.	inap.	clear	F. Z. Gosewisch.

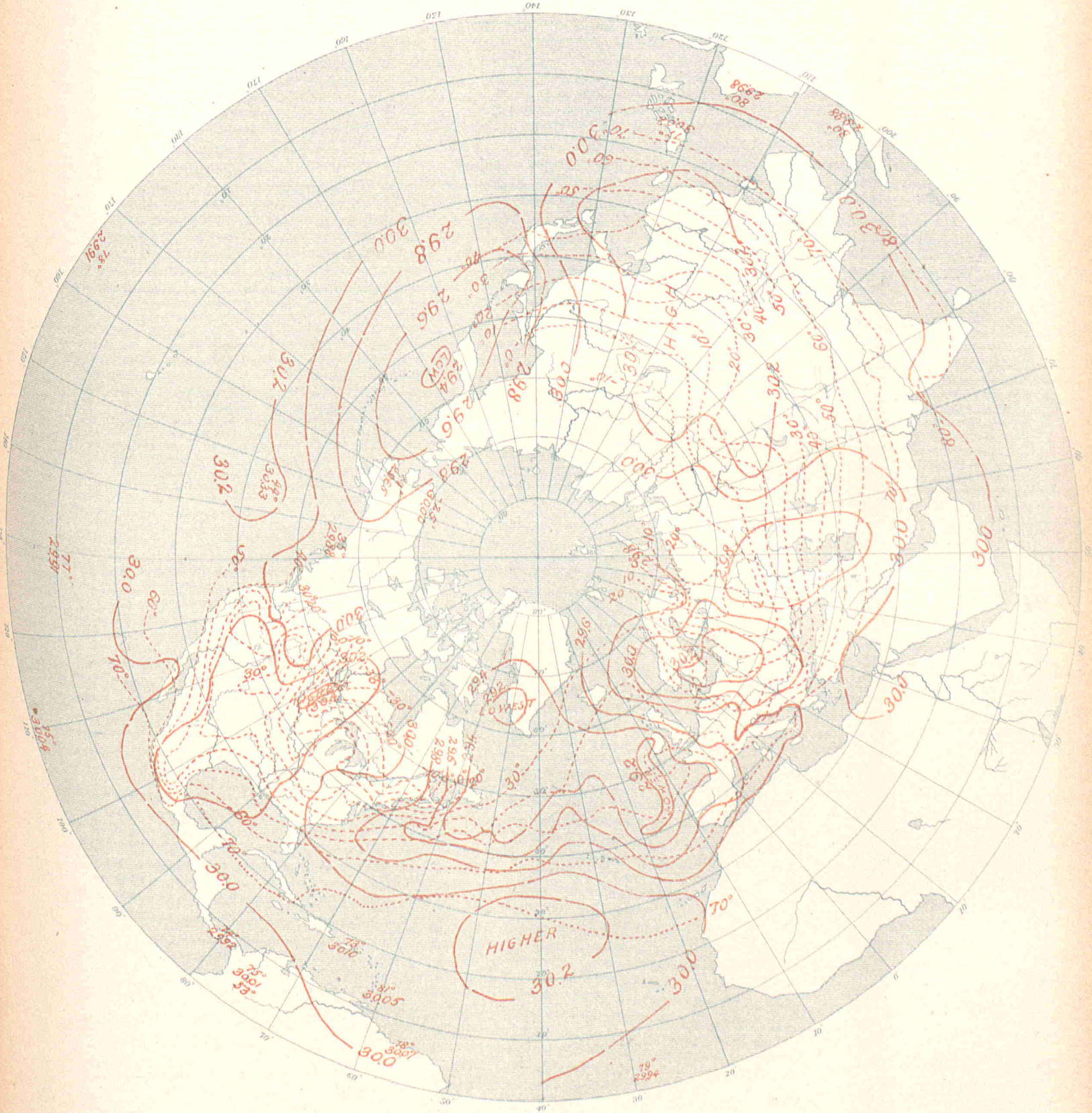
STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.14	765.5	30.16	766.1	67.0	19.4	73	nw.	19	8.5	.....	0	0	.....	.....	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	29.84	757.9	29.86	758.4	30	— 1.1	88	sw.	8	3.6	.....	hz.	1 8	.....	.....	0.01	0.3	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	28.99	736.3	30.07	763.8	15.4	— 9.2	93	nw.	11	4.9	.....	.....	9 n	.....	nw.	0.05	1.3	light snow	J. A. Cody.
La Crosse, Wisconsin	29.44	747.8	30.28	769.1	0	—17.8	68	n.	4	1.8	.....	0	0	.....	.....	0.02	0.5	clear	S. C. Emery
Leavenworth, Kansas	29.43	747.5	30.39	771.9	11	—11.7	80	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.11	739.4	29.98	761.5	35.0	1.7	69	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. Bell.
Little Rock, Arkansas	29.95	760.7	30.28	769.1	33	0.6	60	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.05	753.1	30.05	763.3	52	11.1	41	e.	6	2.7	.....	0	5 8	.....	ne.	0	0	fair	T. S. Collins.
Louisville, Kentucky	29.50	749.3	30.09	764.3	15	— 9.4	67	w.	14	6.3	.....	.....	10 8	.....	w.	0.03	0.8	cloudy	L. M Dey.
Lynchburg, Virginia	29.11	739.4	29.83	757.7	21	— 6.1	70	w.	4	1.8	.....	0	4 8	.....	w.	0.01	0.3	fair	Louis Duane.
Mackinaw City, Michigan	29.39	746.5	30.09	764.3	19.0	— 7.2	70	ne.	8	3.6	.....	4 cs	0	.....	.....	0.02	0.5	fair	F. R. Day.
Macon, Fort, North Carolina	29.85	758.2	29.86	758.4	35.0	1.7	79	w.	12	5.4	.....	0	8 8	.....	w.	0	0	cloudy	William Daly.
Madison, Wisconsin	29.06	738.1	30.15	765.8	11	—11.7	80	nw.	10	4.5	.....	.....	10 8	.....	nw.	0.09	2.3	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.31	642.9	29.86	758.4	45	7.2	29	w.	12	5.4	.....	.....	10 8	.....	w.	0.01	0.3	cloudy	F. Burke.
McKavett, Fort, Texas	27.91	708.9	30.30	769.6	28	— 2.2	77	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.32	744.7	30.10	764.5	16	— 8.9	83	nw.	18	8.0	.....	.....	10 n	.....	.....	0.25	6.3	heavy snow	J. Gilligan.
Memphis, Tennessee	29.90	759.4	30.26	768.6	26	— 3.3	88	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.29	744.0	30.09	764.3	18	— 7.8	83	nw.	13	5.8	.....	.....	10 8	.....	.....	0.28	7.1	cloudy	W. Line.
Missoula, Fort, Montana	26.61	675.9	30.07	763.8	18	— 7.8	70	calm	0	0	.....	0	6 8	.....	.....	0	0	fair	I. H. Young.
Mobile, Alabama	30.18	766.6	30.22	767.6	41.5	5.3	49	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	C. A. Read.
Montgomery, Alabama	29.88	758.9	30.12	765.0	35.5	1.9	45	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. B. McLaughlin
Moorhead, Minnesota	29.29	744.0	30.40	772.1	—23	—30.6	100	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.82	732 0	29.88	758.9	25.0	— 3.9	88	sw.	4	1.8	.....	.....	10 n	.....	.....	0.77	19.6	light snow	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.19	589.0	29.82	757.4	0.0	—17.8	51	nw.	2	0.9	.....	.....	10 8	.....	.....	0	0	cloudy	S. W. Beall.
Nashville, Tennessee	29.57	751.1	30.18	766.6	20.0	— 6.7	70	nw	14	6.4	.....	.....	10 ks	.....	nw.	0.04	1.0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.75	755.6	29.87	758.7	9.5	—12.5	65	n.	10	4.5	.....	.....	10 8	.....	.....	0.37	9.4	cloudy	J. H. Sherman.
New London, Connecticut	29.84	757.9	29.88	758.9	13	—10.6	44	n.	8	3.6	.....	.....	10 8	.....	ne.	0.51	13.0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.19	766.8	30.25	768.3	50.3	10.2	49	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	L. Dunne.
Newport, Rhode Island	29.79	756.7	29.84	757.9	13.6	—10.2	68	n.	12	5.4	.....	.....	10 8	.....	n.	0.58	14.7	cloudy	W. McGillivray.
New York, New York	29.70	754.4	29.89	759.2	15	— 9.4	100	n.	2	0.9	.....	.....	10 8	.....	.....	0.12	3.0	cloudy	J. B. Merrill.
Norfolk, Virginia	29.83	757.7	29.86	758.4	28	— 2.2	77	sw.	3	1.3	.....	.....	10 8	.....	sw.	0.01	0.3	cloudy	Wm. Davis.
North Platte, Nebraska	27.17	690.1	30.29	769.4	26.6	— 3.0	78	sw.	10	4.5	.....	0	2 8	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y.	29.87	758.7	29.91	759.7	39.0	3.9	89	s.	10	4.5	.....	hz.	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	29.12	739.6	30.39	771.9	1.3	—17.1	61	nw.	5	2.2	.....	0	0	.....	.....	inap.	inap.	clear	A. Pollak.
Ooglaamie, Alaska	29.98	761.5	30.00	762.0	—25.0	—31.7	.....	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	P. H. Ray.
Oswego, New York	29.55	750.6	29.90	759.4	7.0	—13.9	52	se.	3	1.3	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. G. Linsley.
Palestine, Texas	29.74	755.4	30.32	770.1	40.0	4.4	48	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.17	766.3	30.20	767.1	43.2	6.2	36	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa.	29.77	756.1	29.88	758.9	19	— 7.2	84	n.	6	2.7	.....	.....	10 n	.....	n.	0.62	15.7	light snow	T. T. Townsend.
Pike's Peak, Colorado	17.77	451.3	30.47	773.9	12	—11.1	64	ne.	15	6.7	.....	0	0	.....	.....	0	0	clear	H. Hall.
Ploche, Nevada	24.07	611.4	30.27	768.8	23.2	— 4.9	60	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.01	736.8	29.86	758.4	17.0	— 8.3	91	nw.	3	1.3	.....	.....	10 8	.....	.....	0.11	2.8	cloudy	W. A. Reid.
Poplar River, Montana	27.58	700.5	29.93	760.2	.....	.....	.....	nw.	.....	.....	1	.....	10 8	.....	.....	0	0	cloudy	W. D. Maxwell.
Port Eads, Louisiana	30.25	768.3	30.26	768.6	48.1	8.9	86	nw.	11	4.9	.....	0	0	.....	.....	0	0	clear	H. B. Boyer.
Port Huron, Michigan	29.31	744.5	30.04	763.0	7.0	—13.9	89	ne.	7	3.1	.....	10 cs	0	.....	.....	0.05	1.3	cloudy	W. O. Bailey.
Portland, Maine	29.83	757.7	29.88	758.9	10.0	—12.2	58	n.	15	6.7	.....	10 cs	0	.....	nw.	0.02	0.5	cloudy	W. W. Eichelberger.
Portland, Oregon	29.90	761.0	30.03	762.7	38.0	3.3	89	s.	1	0.4	.....	.....	10 8	.....	.....	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	37	2.8	89	sw.	.....	.....	4	.....	10 8	.....	sw.	inap.	inap.	cloudy	F. S Coburn.
Prescott, Arizona	24.81	630.2	30.19	766.8	26.5	— 3.1	80	s.	2	0.9	.....	0	5 8	.....	.....	0	0	fair	W. H. Clendenon.
Provincetown, Mass.	29.76	755.9	29.79	756.7	23	— 5.0	88	n.	15	6.7	.....	.....	10 n	.....	.....	0.40	10.2	light snow	P. T. Jenkins.
Punta Rassa, Florida	30.12	765.0	30.13	765.3	57.5	14.2	74	ne.	3	1.3	.....	1 cl	0	w.	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.76	755 9	30.13	765.3	32	0.0	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. R. Williams.
Rochester, New York	29.21	741.9	29.92	760.0	12.5	—10.8	100	ne.	10	4.5	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	E. W. McGann
Roseburg, Oregon	29.54	750.3	30.10	764.5	27	— 2.8	88	e.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	J. J. Nanry.
Sacramento, California	30.05	763.3	30.13	765.3	36.2	2.3	89	e.	4	1.8	.....	.....	10 8	.....	nw.	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.63	752.6	30.27	768.8	8.4	—13.1	78	nw.	20	8.9	.....	.....	10 8	.....	.....	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.61	752.1	29.65	753.1	14	—10.0	100	se.	.....	.....	2	.....	10 s	.....	.....	0.01	0.3	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.36	745.7	30.31	769.9	— 2.0	—18.9	83	calm	0	0	.....	1 cs	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.39	746.5	30.37	771.4	—27	—32.8	100	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	C. B Dilley.
Salt Lake City, Utah	25.72	653.3	30.30	769.6	22	— 5.6	48	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.54	750.3	30.28	769.1	42.5	5.8	58	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. J. Kenan.
San Diego, California	29.95	760.7	30.02	762.5	52.3	11.3	56	ne.	7	3.1	.....	.....	9 8	.....	.....	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.27	743.4	29.99	761.7	8	—13.3	76	n	13	5.8	.....	.....	10 8	.....	n.	0.01	0.3	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.84	757.9	29.87	758.7	15.0	— 9.4	83	n.	16	7.2	.....	.....	10 8	.....	.....	0.21	5.3	cloudy	B. A. Blundon.
San Francisco, California	30.01	762.2	30.08	764.0	39	3.9	86	nw.	15	6.7	.....	1 cs	0	sw.	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.26	590.8	30.31	769.9	29	— 1.7	70	n	4	1.8	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.90	759.4	30.00	762.0	41	5.0	46	nw.	8	3.6	.....	1 cs	0	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.10	662.9	29.96	761.0	42	5.6	38	sw.	17	7.6	.....	0	1 8	.....	w.	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.05	763.3	30.30	769.6	40	4.4	40	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	29.04	737.6	30.37	771.4	30	— 1.1	71	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.35	618.5	30.21	767.3	32.5	0.3	70	nw.	2	0.9	.....	hz.	2 8	.....	.....	0	0	clear	N. D. Lane.
Sitka, Alaska	29.81	757.2	29.88	758.9	35.1	1.7	79	calm	0	0	.....	0	0	.....	.....	0.30	7.6	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.86	758.4	30.30	771.1	20.0	— 3.3	76	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	29.83	757.7	29.87	758.7	34	1.1	78	nw.	5	2.2	.....	0	3 ks	.....	w.	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.81	706.4	29.95	760.7	27	— 2.8	96	e.	1	0.4	.....	.....	10 8	.....	.....	0	0	cloudy	H. Clifford.
Springfield, Illinois	29.49	749.0	30.22	767.6	10	—12.2	80	nw.	16	7.2	.....	.....	10 8	.....	.....	0.19	4.8	cloudy	T. B. Jennings.
Springfield, Missouri	28.78	731.0	30.30	769.6	14	—10.0	72	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Starkville, Miss.	29.72	754.9	30.22	767.6	32	0.0	54	nw.	11	4.9	.....	3 cs	0	.....	.....	0	0	clear	C. Dill.
Stevenson, Fort, Dakota	28.20	716.3	30.26	768.6	5	—15.0	76	se.	4	1.8	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	W. Burrows.
Stockton, Fort, Texas	27.15	689.6	30.29	769.4	25	— 3.9	88	sw.	8	3.6	.....	.....	0	.....	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass.	29.78	756.4	29.84	757 9	20.9	— 6.2	76	n.	21	9.4	.....	.....	0	8 k	.....	ne.	0.30	7.6	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.34	694.4	30.17	766.3	34.5	1.4	87	se.	.....	.....	1	.....	10 8	.....	.....	0	0	cloudy	J. T. Fitzgerald.
Toledo, Ohio	29.26	743.2	30.00	762.0	11	—11.7	80	n.	0	2.7	.....	3 cs	8k.	.....	.....	0.02	0.5	clear	A. Buell.
Tucson, Arizona	27.58	700.5	30.08	764.0	47	8.3	66	s.	2	0.9	.....	.....	9 8	.....	.....	0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.59	750.8	29.95	760.7	30	— 1.1	88	se.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	32.3	0.2	81	nw.	.....	.....	1	4 cs	5 8	sw.	w.	0	0	cloudy	D. Brooks.
Vicksburg, Mississippi	30 01	762.2	30.28	769.1	39.3	4.1	48	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	James Keneally.
Visalia, California	29.70	754.4	30.09	764.3	39.0	3.9	92	sw.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	O. D. Stewart
Washakie, Fort, Wyoming	24.44	620.8	30.24	768.1	21.7	— 5.7	65	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	29.74	755.4	29.86	758.4	18.8	— 7.3	86	ne.	1	0.4	.....	.....	10 8	.....	.....	0.07	1.8	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.11	663.2	30.25	768.3	9.5	—12.5	70	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.23	742.4	29.86	758.4	16	— 8.9	83	calm	0	0	.....	.....	10 n	.....	.....	0.15	3.8	light snow	B. F. Hough.
Wilmington, N. Carolina	29.82	757.4	29.88	758.9	35	1.7	79	w.	3	1.3	.....	0	9 8	.....	w.	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.70	652.8	30.24	768.1	7	—13.9	80	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.97	735.8	30.39	771 9	2	—16.7	72	n.	5	2.2	.....	.....	10 8	.....	.....	inap.	inap.	cloudy	J. H. Atfield.
Yuma, Arizona	29.86	758.4	30.01	762.2	49.0	9.4	60	sw.	2	0.9	.....	.....	10 8	.....	.....	0	0	cloudy	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8	.....	.....	53.0	11.7	82	calm	0	0	.....	5 k	4ks;8	w	nw.	0.63	16.0	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.04	763 0	30.05	763 2	74	23.3	80	n.	5	2.2	.....	5 cs	5 8	sw.	.....	1.01	20.4	cloudy	Robert Johnston.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	78	25.6	86	e.	.....	.....	3	6 ck	5 k	e.	e.	0.510	13.0	.....	Dr. C. J. Herng.
Puerto Herrio, U. S. Colmbia	29.45	748.0	30.01	762.2	75	23 9	89	calm	.....	.....	0	5 ck	5 ks	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.73	755 1	29.79	756.7	34	1.1	78	se.	.....	.....	5	.....	10 n	.....	.....	0 34	8.6	raining	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Walloe.
York Factory H. A.	30.14	765.5	30.22	767 6	—38.0	—38.9	.....	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Amethyst, S. 40° 20′, W. 61° 11′†	30.27	768.8	64.2	17.9	73	nne.			1		7	nw.				3	cf'd	misty.
H. M. S. Audacious, Manila Luzon, Philipine Ids	29.92	760.0	80	26.7	82	e.			1		1	e.						blue sky.
H. M. S. Boadicea, S. 31° 41′, E. 15° 15′	30.04	763.0				s.			5–6		3					4	sw.	d. clouds
H. M. S. Carysfort, N. 33° 50′, E. 23° 15′	29.97	761.2	64	17.8	83	wsw.			3–5		2	wsw.				3	wsw.	squally.
H. M. S. Champion, Singapore, Malay peninsula	29.88	758.9	80	26.7	95	calm			0		3					1	ne	d. clouds.
H. M. S. Cleopatra, N. 31° 15′ E. 121° 29′	30.34	770.6	37	2.8	85	sse.			1		0							blue sky.
H. M. S. Comus, N. 21° 15′, W. 110° 52′	30.09	764.3	68	20.0	90	calm			0		0					1	ne.	blue sky.
H. M. S. Constance, N. 47° 34′ W. 27° 00′	29.97	761.2	76	24.4		nne.			4		3	nne.				2	nne.	d. clouds.
H. M. S. Curacoa, Yokohama, Japan	29.69	754.1	50.5	10.3	72	calm			0		0							blue sky.
H. M. S. Crocodile, N. 37° 46′, E. 7° 15′	29.70	754.4	62	16.7	77	w.			4		7					sm'l		d. clouds.
H. M. S. Diamond, S. 42° 39′, E. 148° 36′	30.14	765.5	60	15.6	82	nw.			4–5		4	nw.				2	nw.	d. clouds.
H. M. Dock Yard, Bermuda, W. I.	29.85	758.2	66	18.9	70	wsw.			3–4		6	wsw.						d. clouds.
H. M. S. Dryad, N. 11° 00′, E. 85° 50′	29.96	761.0	80	26.7		ne.			4		6	ne.				6	ne.	d. clouds.
H. M. S. Fawn, S. 34° 20′, E. 18° 20′	29.92	760.0	64.5	18.1	83	sse.			4		6					4	sse.	d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.22	767.6	49	9.4	74	n.			1		3							d. clouds.
H. M. S. Fox Hound, Labuan Island, Borneo	29.88	758.9	79.5	26.4		ne.			1		3	n.				1	ne.	d. clouds.
H. M. S. Gannet, S. 36° 42′, W. 73° 06′	30.12	765.0	62	16.7	83	calm			0		4							d. clouds.
H. M. S. Heroine, N. 3° 00′ W. 26° 48′	29.92	760.0	79	26.1	80	se.			4		4	ese.				sm'l		d. clouds.
H. M. S. Himalaya, N. 36° 50′, E. 11° 57′			66	18.9	94	sse.			3–6		7					3	sse.	showery.
H. M. S. Iris, N. 38° 35′, E. 19° 00′	29.80	756.9	64	17.8	89	wsw.			3–4		3	wsw.				2	wsw	d. clouds.
H. M. S. Iron Duke, N. 12° 30′, E. 58° 36′	29.98	761.5	77	25.0	81	n.			2–4		2	n.				3	n.	blue sky.
H. M. S. Kingfisher, Callao Bay, Peru	30.00	762.0	68	20.0		calm			0		10							foggy.
H. M. S. Lark, S. 35° 05′, E. 170° 30′	29.95	760.7	67.3	19.6	98	nnw.			2		10					2	n.	overcast.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.10	764.5	44.3	6.8	59	wnw.			1		0					1	se.	blue sky.
H. M. S. Monarch, Port Said, Egypt	30.09	764.3	65	18.3	73	sw.			2		0							blue sky.
H. M. S. Mutine, S. 1° 13′, W. 113° 55′	30.01	762.2	73.5	23.1		calm			0		5					sm'l		d. clouds.
H. M. S. Rocket, Valdivia, Chili	30.13	765.3	70	21.1	90	calm			0		3							d. clouds.
H. M. S. Superb N. 35° 47′, E. 32° 04′	30.00	762.0	60	15.6	76	wsw.			3		8	wsw.				4	w.	showery.
H. M. S. Swiftsure, S. 9° 00′ W. 78° 41′	30.06	763.5	66	18.9	100	se.			1–2		5					3	s.	misty.
H. M. S. Sylvia, Point Angosto, Patagonia	30.02	762.5	45.2	7.3	91	wnw.			3		10							raining.
H. M. S. Tourmaline, Bombay, India	29.99	761.7				nw.			2		0							blue sky.
H. M. S. Zephyr, N. 32° 49′, E. 122° 33′	30.35	770.9	43	6.1	75	calm			0		0					2	ne.	blue sky.
Portuguese Naval.																		
Tamega, Macao, China	30.21	767.3	62.6	17.0	80	se.			2		0							blue sky.
United States Naval.																		
Navy Yard, Pensacola, Fla*	30.13	765.3	44	6.7	67	nw.	2	0.9			0					0	0	clear.
Navy Yard, Portsmouth, N. H*	29.88	758.9	8	—13.3	?	ne.	9	4.0			10	ne.				0	0	cloudy.
Naval Hospital, Yokohama, Japan*	29.68	753.9	44.5	6.9	45	calm			0		0					0	0	clear.
Adams, Sitka, Alaska†	29.95	760.7	33	0.6	90	calm			0		0							clear.
Alaska, Mare Island, Cal	29.94	760.5	36	2.2	90	ene.			2		10	ne.				0	0	foggy.
Alliance, Santiago de Cuba, Cuba, W. I.	30.09	764.3	69	20.6	95	nw.			1		10					hv'y	hv'y	raining.
Ashuelot, Shanghai, China	30.37	771.4	37	2.8	90	se.			1		2	se.				sm'h		clear.
Brooklyn, S. 50° 10′ W. 68° 14′*	29.96	761.0	51	10.6	86	sse.	20	8.9			5	sw.				0	0	fair.
Colorado, New York, N. Y.	29.93	760.2	14	—10.0	100	n.	5	2.2			10					0	0	overcast.
Enterprise, N. 38° 20′, W. 5° 18′*†	29.80	756.9	64	17.8	89	ssw.			6		10	calm				r'gh	sw.	cloudy.
Essex, Callao, Peru	29.98	761 5	68	20.0	100	s.			1		0							foggy.
Franklin, Norfolk, Va	29.84	757.9	28	— 2.2	?	sw.	3	1.3			0					0	0	clear.
Galena, Montevideo, Uruguay*	29.94	760.5	70	21.1	79	ese.			3–5		8	se.				r'gh	se.	overcast
Hartford, S. 23° 15′, W. 75° 59′ *	30.10	764.5	68	20.0	84	sse.			2		2	sse.				sm'h	s.	clear
Independence, Mare Island, Cal	30.09	764.3	35	1.7	100	ese.			6							0	0	foggy.
Iroquois, Callao, Peru	30.05	763.3	66	18.9	94	sse.			1		10							foggy.
Jamestown, Boston, Mass	29.81	757.2	15	— 9.4	64	nw.			1		10							cloudy.
Juniata, Gibraltar, Mediterranean*	29.72	754.9	58	14.4	100	wsw.			3		5	sw.	h'vy	h'vy	h'vy	sm'h		fair.
Kearsarge, Port of Spain, Trinidad W. I.	30.03	762.7	78	25.6	100	e.			2		8	e.				sm'h		fair.
Lackawanna, N. 10° 17′, W. 129° 10′*	29.91	759.7	77	25.0	81	nw.			3		2	sse.				long.	s.	clear.
Lancaster, Genoa, Italy	29.77	756.1	41	5.0	91	n.			6		10	n.						squally.
Michigan, Erie, Pennsylvania	30.00	762.0	16	— 8.9	67	nnw.			1		8	sse.						fair.
Minnesota, New York, N. Y.	29.90	759.4	14	—10.0	100	nne.	7	3.1			8	nne.						cloudy.
Monocacy, Nagasaki, Japan	30.30	769.6	51	10.6	78	n.			2		0							clear.
New Hampshire, Newport, R. I.	29.82	757.4	16	— 8.9	100	n.			2		10					sm'h	n.	cloudy.
Nipsic, Lisbon, Portugal.	29.55	750.6	61	16.1	66	sw.			3		8							cloudy.
Onward. Callao, Peru*†	30.12	765.0	65	18.3	100	sse.			1		10	n.						foggy.
Palos, Tientsin, China*	30.25	768 3	28	— 2.2	77	sw.			1		0							clear.
Pensacola, Panama, U. S. C*	29.92	760.0	74	23.3	90	nnw.	6	2.7			8					0	0	fair.
Portsmouth, Boston, Mass	29.87	758 7	11	—11.7	?	nnw.			1		2					sm'h		clear.
Powhatan, Boston, Mass	29.86	758.4	9	—12.8	78	n.			1		10							cloudy.
Quinnebang, Genoa, Italy	29.75	755.6	41	5.0	73	nne.			6		10	calm						cloudy.
Ranger, N. 20° 52′, W. 118° 38′ *	30.01	762.2	65	18.3	83	ne.			1		2					0	0	sm'h	fair.
Richmond, Hong-Kong, China*	30.13	765.3	62	16.7	77	e.			2		2	e.				0	0	fair.
Saratoga, New York, N. Y	29.90	759.4	14	—10.0	81	n.			2-3		8	nw.				0	0	threatening
St. Louis, League Island, Pa	29.91	759 7	15	— 8.9	100	n.			2		10					0.25	6.3	snowing.
Tennessee, Basse-Terre, St. Kitts, W. I*	30.08	764 0	79	26.1	86	e.	7	3.1			2	e.				light	light	fair.
Vandalia, Samana Bay, San Domingo, W. I*	30.05	763.3	74	23.3	95	nnw.			1		2	calm				sm'h		fair.
Wabash, Boston, Mass	29.86	758 4	9	—12.8	57	nnw.	10	4.5			8	ne.				0	0	cloudy.
Wachusetts, Mare Island, Cal	30.12	765.0	35	1.7	100	ese.			4		10							overcast.
Wyandotte, Washington, D. C	30.07	763.8	32	0.0	69	nw.			2		5	w.				0	0	fair.
Yantic, N. 11° 12′, W. 77° 51′	30.04	763.0	77	25.0	90	n.			2		5					sm'h		hazy.
Merchant Marine.																		
S. S. Grecian, Liverpool, Eng*	29.56	750.8	46	7.8	92	ese.			4		10					3 h'r	3 h'r	foggy.
S. S. Polynesian, Cape Elizabeth, Maine*	29.75	755.6	4	—15.6		ne.			5		8	ene.				18 h'r	18 h'r	mod. ene.	cloudy.
S. S. British Crown, Queenstown, Ireland†	29.24	742 7	46	7.8		s.			4		3	sse.				o	o	sm'h	clear.
S. S. Indiana, Liverpool, England			42	5.6	83	se.			4		10							raining.
S. S. Lord Clive, N. 47° 20′ W. 44° 50′						ese.			5		10					5 h'r	5 h'r	sl't	n.	raining.
S. S. Lord Gough, N. 50° 25′, W. 33° 44′	29.54	750.3	39	3.9		n.			3		8?	ne.				o	o	long	n.	clear.?
S. S. Ohio, Philadelphia, Pa			21	— 6.1	100	nw.			2		10							snowing.
S. S. Pennsylvania, N. 50° 52′ W. 29° 05′†	29.39	746.5	43	6.1	100	n.			3		9	nw.				o	o	r'gh	nw.	cloudy.
S. S. Jason, N. 43° 47′, W. 50° 36′			35.6	2.0		ne.			4		6 n							5	wnw.	gloomy.
S. S. Stella, N. 50° 35′ W. 33° 20′	29.30	744 2	38	3.3		n.			5		5	n.				3 h'r	3 h'r	4	nw.	d. clouds.
S. S. Bolivia, N. 52° 51′, W. 26° 05′	29.38	746.2	46	7.8	69	nnw.			4		2	nw.				o	o	long	nw.	fine.
S. S. Dorian, Leghorn, Italy*	29.56	750.8				se.			4							o	o		
S. S. Antillas, Arroyo, Porto Rico, W. I†	30.20	707.1				se.			2		2?	se.				sq'lls	sq'lls	mod.	se.	cloudy.†
S. S. Ambrose, Amazon river, Brazil†	30.04	703.0	81	27.2												4 h'r	4 h'r			cloudy.
S. S. Landaff City, N. 51° 20′, W. 4° 38′ *†	29.60	751.8				ese.			6		10	e.				sq'lls	sq'lls	mod.	e.	misty.
S. S. Auckland, S. 56° 27′, W. 62° 56′	29.46	748.3	44	6.7	84	wsw.			4		9									drizzling.
S. S. Caldew, S. 24° 00′, E. 67° 25′	30.04	763 0	79.5	26.4	76	ene.			4		9									d. clouds.
S. S. City of Agra, S. 53° 15′, W. 57° 00′	29.47	748.5	42	5.6	63	wsw.			6		10									overcast.
S. S. Gordon Castle, N. 37° 11′, E. 11° 05′	29.75	755.0	60.5	15.8	77	s.			4–5		3									d. clouds.
Inchkeith, N. 14° 57′, E. 80° 19′	30.04	703.0	77.4	25.2	79	ne.			5		7									d. clouds.
St. Kilda, N. 32° 00′ W. 54° 50′	29.97	761.2	69.5	20.8	70	sw.			6		2									d. clouds.
S. S. Scotia, Malta, Mediterranean	29.85	758.2	65	18.3	68	calm			0		5									blue sky.
S. S. Lake Huron, N. 51° 51′, W. 6° 57′			47	8.3		sse.			5		10	sse.		7 h'r	7 h'r	mod.	sse.		
S. S. Mexico, N. 23° 05′, W. 110° 14′ †	30.04	703.0	66	18.9	79	ne.			1		0									
S. S. Gallia, N. 40° 22′, W. 69° 29′	29.74	755.4	37	2 8	81	ne.			4		8	nne.		o	o	high	nne.	fair.	
S. S. Marathon, N. 46° 00′, W. 44° 20′	29.20	743.2	50	10.0		w.			6		10	w.		6 h'r	6 h'r	r'gh	wsw.	raining.	

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																		
S. S. Parthia, N. 49° 40′, W. 28° 24′	29.51	749.5	46	7.8	84	wnw.			5		6		wnw.	6 h'r	6 h'r	r'gh	nnw.	hailing.
S. S. Pavonia, N. 41° 06′, W. 64° 47	29.50	749.3	43	6.1	83	n.			5		10		n.	8 h'r	8 h'r	long	sw.	cloudy.
S. S. Colina, N. 39° 06′, W. 69° 47′†	29.64	752.8				nw.			2		3		nw.	o	o	long	ne.	clear.
S. S. Canada, N. 47° 53′, W. 40° 26′			47	8.3		s.			5		k		s.	rain	rain	sm'h	w.	rainy.
S. S. Labradore, N. 49° 35′, W. 26° 11′*†	29.68	753.1	44.6	7.0		sse.			3		o			o	o	sm'h	w.	clear.
S. S. Perire, N. 39° 41′, W. 70° 00′	29.68	753.8	33.8	1		nne.			5		10		nne.	rain	rain	h'vy	nne.	covered.
S. S. Ville de Marseilles, N. 42° 14′, W. 12° 26′*†	29.15	740.4	49	9.4		ne.			6		3		n.	6 h'r	6 h'r	long	ne.	fair.
S. S. Abyssina, N. 42° 50′, W. 55° 15′	29.35	745.5	53	11.7	86	wsw.			8		5		wsw.	4 h'r	4 h'r	r'gh	wsw.	hazy
S. S. Arizona, N. 42° 00′, W. 62° 04′	29.62	752.3	32	0.0		n.			4		8		ne.	o	o	high	con.	cloudy.
S. S. Wisconsin, N. 50° 25′, W. 30° 00′			44	6.7		nnw.			5		5		nw.	6 h'r	6 h'r	mod.	nw.	showery.
S. S. Wyoming, N. 51° 24′, W 12° 07′	29.18	741.2	50	10.0		wnw.			7		1		var.	o	o	r'gh	ene.	fair.
S. S. Bohemia, Hamburg, Germany*†	30.05	763.3				e.			3		10		s.	2 h'r	2 h'r	4	w.	fair.
S. S. Rugia, N. 48° 13′, W 37° 19′	29.51	749.5				s.			3		10		ne.	7 h'r	7 h'r	4	nw.	overcast.?
S. S. Silesia, N. 48° 35′, W. 32° 36′	29.67	753.6	43.0	6.1		ne.			3-4		5?							fair?
S. S. Vandalia, Hamburg, Germany	30.11	764.8	33.4	0.8		ene.			4		0?							fair.
S. S. Wieland, N. 43° 13′, W. 57° 31′	29.26	743.2				w.			6		10		w.	snow	snow	high	w.	stormy.
S. S. Mentmore, N 42° 18′, W. 61° 44′*	29.64	752.8				nnw.			5		10		n.	o	o	con.		gloomy.
S. S. Archimedes, Bahia, Brazil	29.96	761.0				calm			0		4		calm	o	o			clear.
S. S. Hevelius, N. 47° —′, W. 9° 30′ †	29.37	746.0	52	11.1		sw.			4		10		w.	3 h'r	3 h'r	high	w.	raining.
S. S. Ptolemy, N. 28° 36′, W. 19° 32′	30.07	763.8	67.5	19.7	82	w.			6	cs	8 ks	w.		o	o		nw.	d. clouds.
S. S. Sirius, N. 10° 30′, W. 49° 20′*	30.00	762.0				ne.			5		2		ne.	o	o	r'gh	ne.	clear.
S. S. Colorado, New York, N. Y†			12	—11.1		ne.			4		10?		ne.	snow	snow			clear?
S. S. San Marcos, N 32° 24′ W. 78° 56′	30.07	763.8	53	11.7		wnw.			5		5		nw.	o	o	h'vy	nw.	fair
S. S. Archimede, Marseilles, France †	29.54	750.3	57	13.9	69	ene.			4		6		ene.	14 h'r	14 h'r			cloudy.
S. S. Hermod, N. 44° 52′, W. 47° 32′†	29.28	743.7	45	7.2		wsw.			7		7		wsw.	snow	snow	r'gh	sw.	stormy.
S. S. Alleghany, N. 39° 40′ W. 74° —′†	29.78	756.4	34	1.1		ne			5		10		n.	snow	snow	h'vy	ne	stormy.
S. S. Glenfyne, N. 33° 12′, W. 69° 02′						wnw.			6		10		nw.			cross	w.	sprinkling.
S. S. Brooklyn, Portland, Maine *	29.76	755.9	20	—6.7		calm			0				n.	o	o			clear.
S. S. Dominion, N. 49° 01′, W. 41° 56′*†	29.40	746.7	39	3.9		sw.			4		10		s.	snow	snow	r'gh	ssw.	snowing.
S. S. Chalmette, Algiers, La †	30.17	766 3	45	7.2		nw.			3		0			o	o			clear.
S. S. Lone Star, N. 38° 05′, W. 74° 35′ †	29.72	754.9	28	—2.2		wnw.			4		3		w.	snow	snow	large	var.	fair.
S. S. New York, N 27° 45′, W 79° 50′ †	30.13	765.3	64	17.8		nnw.			7					o	o	r'gh	nw.	clear.
S. S. Denmark, N. 40° 22′, W. 71° 36′†	29.73	755 1	20	— 3.3		ne.			5		8		ne.	o	o	slt	e.	cloudy.
S. S. England, off Queenstown, Ireland	29.20	741.7				s.			6		8		s.	sq 'lls	sq 'lls	mod	s.	squally.
S. S. Erin, Liverpool, Eng *†	29.72	754.9	39	3.9		wsw.			5		10			16 h'r	16 h'r			
S. S. Greece, N. 47° 43′, W. 41° 58′	29.29	744.0	42	5.6		sse.			6		10		sse.	10 h'r	10 h'r	mod.	se.	threatening.
S. S. Helvetia, N. 43° 50′ W. 48° 00′	29.33	745.0	53	11.7		sw.			6		10		sw.	13 h'r	13 h'r	long	ssw.	hazy.
S. S. Santiago, N. 19° 42′, W. 77° 40′			70	21.1	90	n.			3		0			10 h'r	10 h'r	sm'h		fine.
S. S. City of Alexandria, Havana, Cuba, W. I †	30 15	765.8	68	20.0	84	nnw.			6		5		n.	o	o	r'gh	n.	fair.
S. S. City of Merida, N. 23° 09′, W. 82° 22′†	30.21	767.3	77.0	25.0		nw.			3		5?		uw.	1 h'r	1 h'r	h'vy	nw.	cloudy?
S. S. City of Washington, Vera Cruz, Mexico †	30.23	767.8	74	23.3		e.			2		5		e.	o	o	sm'h		fine.
S. S. Alpin, N. 28° 39′, W. 88° 40′	30.13	765.3	60	15.6		nw.			4								se.	clear.
S. S. America, N. 53° 52′, E. 7° 08′ *	29.95	760.7	30.5	—0.8	89	e.			5		5?		e.	o	o	mod	e.	cloudy.?
S. S. Braunschweig, Buenos, Ayres, Argentine Rep	29.87	758.7	76.0	24.4	73	ese.			6		4		ese.	o	o	mod	e.	fair.
S. S. Hohenstaufen, S. 33° 56′, W. 52° 19′	29.85	758.2	75.2	24.0		s.			6		5		s.	o	o	sm'h	s.	fair.
S. S. Neckar, N. 42° 38′, W. 55° 15′	29.13	739.9	46.4	8.0		ssw.			9		4		wsw.	5 h'r	5 h'r	h'vy	sw.	fair.
S. S. Oder, N. 46° 33′, W. 45° 39′	29.35	745.5	49.0	9.4	93	wsw.			3		10		ssw.	snow	snow	mod	var.	foggy.
S. S. Saller, Brouwershaven, Netherlands*†	30.12	765.0				e.			5		5		e.	o	o			fair.
S. S. Strassburg, S. 1° 27′, W. 31° 46′	29.99	761.7	80.0	26.7	91	e.			3-4		8?		ese.	½h'r	½h'r	mod.	ese.	clear.?
S. S. Belgic, N. 35° 04′, E. 175° 28′ *†	30.04	763.0	62	16.7	66	sw.			7		5		w.	o	o	h'vy	sw.	fair.
S. S. Gaelic, N. 34° 31′, E. 145° 00′	29.69	754.1	58	14.4	94	w.			6		6?		w.	4 h'r	4 h'r		w.	cloudy?
S. S. Oceanic, N. 45° 13′, W. 146° 30′ *	30.33	770.4	44	6.7	84	s.			3		7		s.			slt	var.	cloudy.
S. S. City of Augusta, New York, N. Y †	29.77	756.1				nne.			5		10		ne.	o	o			overcast.
S. S. Willamette, N. 40° 12′, W. 124° 40′ †	30.15	765.8	48	8.9	92	nnw			5		4		n.	0.04	1.0	sm'h		squally.
S. S. Columbia, Astoria, Oregon †	29.93	760.2	40	4.4	91	sw.			5		4		ssw.					raining.
S. S. Oregon, Astoria, Oregon †	29.94	760.5	44	6.7	92	sw.			2		10							light rain.
S. S. Ancon, N. 37° 24′ W. 122° 32′ †	29.96	761.0	51	10.6	79	nne.			3		2		ne.			sm'h		fair.
S. S. City of Chester, off Cape Mendocino, Cal *†	30.06	763.5	38	3.3	81	nw.			6		0					long	sw.	clear.
S. S. Dakota, N. 40° 40′, W. 124° 35′*†	30.02	762.5	52	11.1	79	nw.			4		10		nw.	2 h'r	2 h'r	mod.	nw.	foggy.
S. S. G. W. Elder, N. 47° 34′, W. 124° 52′†	29.94	760.5	43	6.1	92	nw.			5		8			10 h'r	10 h'r	hv'y	w.	squally.
S. S. Orizaba, N. 35° 11′, W. 120° 43′ *†	29.94	760.5	54	12.2	44	se.			3				ssw.	o	o	long	sw.	cloudy.
S. S. Queen of the Pacific, N 41° 15′ W. 124° 36′						nnw.			4		8						w.	foggy.
S. S. State of California, San Francisco, Cal †	30.06	763.5	39	3.9	82	n.			4		0			o	o			clear.
S. S. Victoria, San Francisco, Cal *†	30.06	763.5	42	5.6		nne.			4		5		nne.					fair.
S. S. City of New York, N 19° 33′, W. 165° 07′ †	29.91	759.7	78	25.6	82	e.			2		0			o	o	mod.	ne.	clear.
S. S. City of Sydney, S. 34° 00′, E. 163° 24′†	30.07	763.8	70	21.1	80	s.			2		2		sw.	o	o	mod.	sw.	fair.
S. S. City of Tokei, Hong Kong, China†.	30.25	768.3	60	15.6	82	calm			0		2		ne.	o	o	small	nw.	clear.
S. S. Colima, Acapulco, Mexico †	30.04	763.0	77	25.0	86	calm			0		2		calm	o	o			clear?
S. S. Colon, N. 38° 54′, W. 73° 47′†	29.72	754.9	30	—1.1		wnw.			4		6?		w.	snow	sno w	mod.	wnw.	overcast.
S. S. Grenada, N. 14° 54′, W. 93° 24′ †	30.00	762.0	77	25.0	86	ene.			1		10		w.	o	o	large	ene.	clear.
S. S. San José, N. 8° 54′, W. 79° 30′*†	29.93	760.2				nw.			2		5		ne.	o	o			
S. S. Zealandia, Sydney, N. S. W*.	30.03	762.7	69	20.6	90	se.			2		2 k		nw.	o	o	light	nw.	
S. S. Muriel, Martinique, W. I *	30.06	763.5	80	26.7		e.			4		8		se.					cloudy.
S. S. Caracas, Curacoa, W. I†	30.03	762 7	79	26.1	84	ese.			4		2			o	o	sm'h		fair.
S. S. Clandius, N. 31° 12′, W. 75° 00′†	29.90	761.0				sw.			7		8		ese.	o	o			fine.
S. S. Valencia, N. 32° 06′, W. 71° 16′ †	29.93	760.2	60	15.6	76	nw.			6		9		n.	hv'y	hv'y	mod.	var.	stormy.
S. S. Belgenland, Antwerp, Belgium †	29.74	755.4	35	1.7	90	e.			4		10		nnw.	sq 'lls	sq 'lls	h'vy	wnw.	rainy.
S. S. Pennland, N. 49° 06′, W. 33° 03′	29.61	752.1	38	3.3	90	nnw.			4		8			o	o			hazy.
S. S. Rhynland, N. 43° 30′, W. 58° 00′			32	0.0	90	n.			4		10		n.	4 h'r	4 h'r	cross	nw.	fine.
S. S. Switzerland, N. 49° 56′ W. 5° 20′†	29.40	746.7				ene.			5		8		n.	6 h'r	6 h'r	high	ssw.	gloomy.
S. S. Waesland, N. 46° 07′, W. 47° 27′	29.23	742.4	39	3.9		ssw.			5		10		se.	4 h'r	4 h'r	r'gh	se.	fair.
S. S. Maas, N. 46° 04′, W. 32° 50	29.53	750.0	48.9	9.4		n.			6		10		sw.	15 h'r	15 h'r	mod.	ssw.	dense fog.
S. S. Schiedam, N 44° 32′ W. 45° 17′	29.36	745.7	58.3	14.6	89	sw.			4		5		se.			4	w.	drizzling.
S. S. W. A. Scholten, N. 40° 41′, W. 67° 37′	29.88	758.9	33.4	0.8	80	nne.			6		8		w.	13 h'r	13 h'r	h'vy	sw.	hazy.
S. S. State of Florida, N. 49° 51′, W. 36° 59′	29.50	749.3	40	4.4		s.			2		4		nw.	snow	snow	cross	ne.	
S. S. State of Indiana, N. 50° 00′, W. 35° 15′†	29.44	747.8	39	3.9		s.			2		9		s.	hail	hail	mod.	w.	cloudy.
S. S. Iowa, N. 43° 44′, W. 48° 59′*†	29.50	749.3	43	6.1		ssw.			2		8		se.	3 h'r	3 h'r	mod.	n.	cloudy.
S. S. Plantyn, N. 42° 33′, W. 49° 38′	29.44	747.8							4		8		ssw.	23 h'r	23 h'r	long	sw.	misty.
S. S. Britannic, N. 46° 05′, W. 39° 47′†	29.42	747.3	45	7.2	92	s.			4		5		wsw.	5 h'r	5 h'r	high	w.	squally.
S. S. Germanic, N. 44° 15′, W. 54° 54′†	29.20	741 7	44	6.7		sw.			6		10		sw.	12 h'r	12 h'r	r'gh	w.	overcast.
S. S. Lepanto, N. 42° 08′, W. 57° 42′*	29.47	748 5	52	11.1		w.			5		5		w.	snow	snow	r'gh	sw.	d. clouds.
S. S. Romano, N. 45° 05′, W. 46° 00′ *†	29.28	743.7	48	8.9		sw.			5		5		wnw.	o	o	slt'r	wnw.	fair.
S. S. Salerno, N. 41° 50′, W. 64° 18′	29.03	752.6	31	—0.6		ne.			5		10		nw.	sleet	sleet	mod.	w.	misty.
S. S. Aries, Delaware Bay *†	29.70	754.4				n.			1		10		ne.	1 h'r	1 h'r	r'gh	var.	snowing.
S. S. Catherine Whiting, Delaware Bay†	29.97	759.7				ne.			1		9		n.	snow	snow	sm'h		clearing.
S. S. Norman, N. 42° 23′, W. 71° 07′ †	29.71	754.0				nne.			3				ne.	o	o			
S. S. Saxon, Philadelphia, Pa†	29.84	757.9	18	— 7.8		nne.			2		10			o	o	h'vy	ene.	cloudy.
MISCELLANEOUS																		
Schr. Abbie H. Gheen, N. 33° 10′, W. 79° 00′†	29.97	761.2	42	5.6		wnw.			0					o	o			
Bk. Adelaide, S. 5° 51′, W. 33° 19′ *†	29.96	761.0	84	28.9		ese.			5		2		se.	o	o	mod.	se.	fair.
Bk. Alpha, Demerara, British Guiana *†	29.99	761.7	82	27.8		ene.			6		5		ene.	1 h'r	1 h'r	mod.		fair.
Schr. Anna A. Holton, N. 22° 18′, W. 97° 45′†	30.21	767.3	63	17.2		w.			2		2			o	o	sm'h	se.	clear.
Bk. Anna Thormann, S. 26° 50′, E. 5° 38′	30.16	766.1	72.7	22.6	82	sse.			2		2 ks		se.	imap.	imap.	mod.	ssw.	clear.
S. S. Antonio Lopez, Cadiz, Spain	29.66	753.4	59	15.0	70	wsw.			3		9			15 h'r	15 h'r			squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Bk. Aquidneck, N. 32° 40′, W. 70° 43′ *†	30.00	762.0	68	20.0	.....	wsw.	.....	.....	.....	.....	.....	.....	wsw.	light	light	h'vy	wsw.	cloudy.
Bgt. Arthur, S. 7° 36′, W. 27° 07′ *†	30.08	764.0	.....	.....	.....	ese.	.....	.....	4	.....	5	.....	ese.	1 h'r	1 h'r	mod.	var.	
Bk. B. F. Watson, N. 22° 21′, E. 114° 49′ †	30.13	765.3	62	16.7	.....	ne.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	misty.
Bg. Belle of the Bay, Galveston, Texas†	30.23	767.8	.....	.....	.....	ne.	.....	.....	2	.....	0?	.....	.....	0	0	.....	.....	threatening?
Bk. Bremen, N. 42° 58′, W. 14° 50′*	29.33	745.0	.....	.....	.....	nne.	.....	.....	3	.....	5	.....	nnw.	rain	rain	cross	var.	light rain.
S. S. Burswell, N. 45° 59′, W. 26° 05′*†	29.50	749.3	51	10.6	.....	wnw.	.....	.....	5	.....	8?	.....	nw.	12 h'r	12 h'r	str'g	con.	clear ?
Bk. Champion, Philadelphia, Pa	.....	.....	33	0.6	.....	ene.	.....	.....	4	.....	10	.....	ssw.	snow	snow	.....	.....	
Bk. Commerce, N. 36° 17° W. 36° 19′†	30.01	762.2	66	18.9	.....	w.	.....	.....	4	.....	10	.....	w.	4 h'r	4 h'r	long	w.	misty.
S. S. D. J. Foley, N. 31° 10′, W. 71° 00′*†	29.92	760.0	61	16.1	77	w.	.....	.....	9	.....	8	.....	w.	1 h'r	1 h'r	hv'y	wnw	
Bk. E. D. Bigelow, N. 45° 22′, W. 22° 16′*†	29.40	746.7	.....	.....	.....	w.	.....	.....	4	.....	5	.....	wnw.	ɔ	o	cross	nnw.	squally.
Schr. Edith R. Seward, Wilmington, N. C†	29.85	758.2	36	2.2	.....	sw.	.....	.....	2	.....	3	.....	sw.	o	o	.....	.....	
Bk. Edmund Phinney, S. 4° 09′, W. 33° 18′ †	29.98	761 5	82	27.8	.....	ese.	.....	.....	4	.....	5	.....	.....	o	o	r'gh	ese.	fair.
S. E. J. Spicer, Liverpool, Eng	29.58	751.3	43	6.1	92	sse.	.....	.....	5	.....	10	.....	se.	.....	.....	.....	.....	light rain.
Bk. E. L. Pettingil, S. 36° 58′, W. 121° 09′*†	30.20	767.1	68	20.0	.....	ene.	.....	.....	4	.....	2	.....	e.	hv'y	hv'y	mod.	se.	hazy.
Bk. Essex, Majambo, Madagascar*†	29.91	759.7	88	31.1	.....	nw.	.....	.....	4	.....	.....	.....	.....	sh'rs	sh'rs	r'gh	nw.	squally.
Schr. F. E. McDonald, Jacksonville, Fla †	30.00	762.0	.....	.....	.....	wnw.	.....	.....	4	.....	0	.....	.....	o	o	.....	.....	fine.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†	29.80	756.9	25	— 3.9	.....	ne.	.....	.....	1	.....	10	.....	calm	.....	.....	.....	.....	cloudy.
S. S. Foscolia, Dunkirk, France	.....	.....	.....	.....	.....	ne.	.....	.....	3	.....	5	.....	.....	o	o	.....	.....	hazy.
Bk. Freya, Matanzas, Cuba, W. I	.....	.....	.....	.....	.....	n.	.....	.....	4	.....	2	.....	n.	o	o	.....	.....	clear.
Bg. George, Ponce, Porto Rico, W. I*†	30.15	765.8	.....	.....	.....	ne.	.....	.....	1	.....	8	.....	.....	sh'rs	sh'rs	mod.	.....	clearing.
S. George Stetson, N. 2° —′, W. 28° —′ *†	30.04	763.0	79	26.1	86	e.	.....	.....	4	.....	5?	.....	ene.	o	o	sm'h	nw.	cloudy?
Bg. Gipsey Queen, N. 40° 15′, W. 68° 20′ *†	29.80	756.9	.....	.....	.....	n.	.....	.....	4	.....	.....	.....	.....	snow	snow	long	ne.	snowy.
Bk. Gronsvaer, Auckland, N. Z	29.99	761.7	72.8	22.7	.....	ne.	.....	....	4	.....	6	.....	ne.	1 h'r	1 h'r	.....	.....	cloudy.
Bk Hattie G. McFarland, Demerara, Brit. Guiana*†	30.10	764.5	78	25.6	.....	ene.	.....	.....	4	.....	5	.....	e.	3 h'r	3 h'r	.....	.....	
Schr. Hattie Weston, N. 26° 00′, W. 59° 30′*†	30.25	768.3	75	23.9	.....	sse.	.....	.....	3	.....	2	.....	s.	o	o	mod.	sse.	clear.
S. Hedwig, N. 45° 16′, W. 29° 31′	29.69	754.1	50.2	10.1	.....	nw.	.....	.....	7	.....	8	.....	var.	7 h'r	7 h'r	4	nw.	squally.
Bk. Heinrich & Tonio, N. 46° 57′, W. 14° 18′	.....	.....	50.5	10.3	.....	wnw.	.....	.....	4	.....	5	.....	var.	4 h'r	4 h'r	long	wnw.	fair.
Schr. Isabel Alberto, Jersey City, N. J.†	29.95	760.7	.....	.....	.....	n.	.....	.....	4	.....	10	.....	n.	light	light	.....	.....	cloudy.
Schr. James Slater, N. 35° 00′, W. 71° 50†	29.77	756.1	48	8.9	.....	wnw.	.....	.....	6	.....	10	.....	wnw.	o	o	r'gh	var.	cloudy.
Bk. Johanne, N. 40° 50′, W. 17° 50′ *†	29.12	739.6	52	11.1	.....	nne.	.....	.....	8	.....	8	.....	ne.	8 h'r	8 h'r	r'gh	n.	misty.
Schr. John L. Thomas, N. 25° 58′, W. 63° 10′*†	30.18	766.6	.....	.....	.....	s.	.....	.....	2	.....	2	.....	s.	o	o	chop	var.	fine.
Bkt. Josephine, S. 12° 19′, W. 31° 30′†	30.00	762.0	84	28.9	71	ese.	.....	.....	5	.....	5	.....	.....	o	o	mod.	e.	fair.
S. S. J. W. Wilson, Port Eads, La*†	30.14	765.5	46	7.8	.....	nnw.	.....	.....	4	.....	o	.....	.....	o	o	.....	.....	clear.
Light House Tender Laurel, Punta Rassa, Fla†	30.09	764.3	62	16.7	.....	n.	.....	.....	0–1	.....	2	.....	n.	o	o	long	nw.	clear.
Bg. Lillian, N. 6° 48′, W. 58° 11′†	30.13	765.3	79	26.1	.....	e	.....	.....	4	.....	10	.....	ene.	1½h'r	1½h'r	.....	.....	rainy.
Bk. Louise Adelaide, Vera Cruz, Mexico	.....	.....	.....	.....	.....	wsw.	.....	.....	1	.....	6	.....	nw.	o	o	long	n.	fine.
Bg. L. & W. Armstrong, N. 37° 00′, W. 71° 55′*†	29.80	756.9	.....	.....	.....	w.	.....	.....	9	.....	10	.....	wnw.	3 h'r	3 h'r	h'vy	wnw.	hail & snow
S. S. Malabar, N. 39° 15′, W. 00° 06′†	29.35	745.5	.....	.....	.....	sw.	.....	.....	6	.....	5?	.....	sw.	o	o	mod.	sw.	cloudy.†
Schr. Minnie A. Bonsall, Jacksonville, Fla.†	30.08	764.0	60	15.6	.....	wnw.	.....	.....	5	.....	o	.....	.....	.....	.....	.....	.....	clear.
S. Minnie N. Gerow, N. 38° 58′, W. 72° 43′*†	29.70	754.4	.....	.....	.....	nw.	.....	.....	3	.....	.....	.....	.....	.....	.....	long	w.	snowing.
S. M. P. Grace, S. 37° 12′, W. 29° 22′ *—	29.89	759.2	65	18.3	.....	nnw.	.....	.....	5	.....	hz	.....	nnw.	rain	rain	short	n.	foggy.
Bg. Myrtle, N. 26° 15′, W. 58° 18′*†	30.08	764.0	.....	.....	.....	s.	.....	.....	2	.....	2	.....	se.	o	o	sm'h	.....	fair.
Bkt. Norena, Off Stirrup Cays, W. I*†	30.16	766.1	.....	.....	.....	wnw.	.....	.....	6	.....	2	.....	nw.	3 h'r	3 h'r	r'gh	wnw	fine.
Bg. O. C. Clary, Miragoane, Hayti, W. I.*†	30.04	763.0	81	27.2	91	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	
Bk. Ottawa, Alicante Harbor, Spain*	29.48	748.8	59	15.0	.....	wsw.	.....	.....	5	.....	2	.....	wsw.	o	o	.....	.....	clear.
S. Paramita, San Francisco, Cal	30.05	763.3	39	3.9	.....	nne.	.....	.....	4	.....	.....	.....	.....	o	o	.....	.....	clear.
S. S. Peconic, N. 27° 40′, W. 79° 40′†*	30.04	763.0	65	18.3	.....	wnw.	.....	.....	6	.....	0	.....	.....	o	o	long	n.	clear.
S. S. Raleigh, Kingston, Jamaica, W. I*†	29.98	761.5	75	23.9	.....	calm	.....	.....	0	.....	4	.....	.....	o	o	.....	.....	
Bk. Reindeer, N. 25° 56′, W. 59° 00′	30.12	765.0	.....	.....	.....	sse.	.....	.....	4	.....	9	.....	se.	o	o	long	ese.	
S. Rudolph, N. 47° 04′, W. 11° 50′	29.04	737.6	46.5	8.1	.....	wsw.	.....	.....	3	.....	10	.....	sw.	1 h'r	1 h'r	long	var.	threatening.
Schr. S. B. Hubbard, Jacksonville, Fla *†	30.07	763.8	44	6.7	.....	n.	.....	.....	5	.....	o	.....	.....	o	o	.....	.....	clear.
Bk. Scud, N 27° 16′, W. 53° 29′*†	30.26	768.6	77	25.0	.....	sse.	.....	.....	4	.....	1	.....	sse.	o	o	sm'h	.....	clear.
Bk. Southern Belle, N. 27° 15′, W. 26° 00′*†	30.12	765.0	67	19.4	.....	nw.	.....	.....	3	.....	8	.....	.....	o	o	long	nw.	fair.
S. Sovereinn of the Seas, N. 1° 50′, W. 109° 35′*†	30.04	763.0	75	23.9	98	sw.	.....	.....	1	.....	9	.....	.....	o	o	sm'h	sse.	cloudy.
Bk. Sunbeam, N. 38° 47′, W. 9° 45′	.....	.....	58	14.4	88	w.	.....	.....	6	.....	10	.....	w.	2 h'r	2 h'r	r'gh	w.	cloudy.
S. S. Sunbeam, N. 31° 58′, W. 74° 26′	29.90	759.4	56	13.3	81	nw.	.....	.....	6	.....	8	.....	nw.	5 h'r	5 h'r	7	wnw.	d. clouds.
S. Titan, N. 30° 08′, W. 40° 16′ *†	30.40	772.1	70	21.1	90	n.	.....	.....	2	.....	1	.....	n.	o	o	sm'h	n.	clear.
Bk. Wandering Jew, Montevideo, Uruguay †	30.00	762.0	71	21.7	.....	se.	.....	.....	6	.....	4	.....	se.	o	o	.....	.....	clear.
Bk. Winifred, N. 36° 05′, W. 73° 55′	.....	.....	.....	.....	.....	wnw	.....	.....	.....	.....	.....	.....	.....	2 h'r	2 h'r	.....	.....	cloudy.
Schr. Wm. Weller, N. 31° 33′, W. 78° 00′	.....	.....	.....	.....	.....	w.	.....	.....	6	.....	8	.....	w.	o	o	h'vy	nw.	fine.
Bk. Xenia, N. 31° 49′ W. 45° 19′*†	30.34	770.6	70	21.1	.....	wsw.	.....	.....	5	.....	7	.....	wsw.	o	o	.....	w.	cloudy.

International Chart I. January 11, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 12, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer: Corrected for instrumental error and for temperature.		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind: Upper.	Clouds: Amount and kind: Lower.	Clouds: Direction: Upper.	Clouds: Direction: Lower.	Rainfall or melted snow in the last 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec.	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.50	749.3	65.5	18.6	77	n.	.....	.....	7	.....	3	.....	.....	inap.	inap.	pretty fair...	Malaterre.
Algiers	.....	.....	29.58	751.2	60.1	15.6	53	se.	.....	.....	7	.....	6	.....	.....	inap.	inap.	cloudy.....	Thève.
La Calle	.....	.....	29.71	754.5	65.1	18.4	40	s.	.....	.....	5	.....	4	.....	.....	0	0	cloudy	Fonfréde.
Tunis	.....	.....	29.77	750.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	29.52	749.8	51.4	10.8	68	s.	.....	.....	7	.....	6	.....	.....	0	0	cloudy.....	Pérès.
Tebessa	.....	.....	29.89	759.2	60.4	15.8	44	w.	.....	.....	7	.....	2	.....	.....	0	0	fair.....	Dognon.
Geriville	.....	.....	.....	.....	40.6	4.8	65	sw.	.....	.....	5	.....	6	.....	.....	0	0	cloudy.....	Lonchamp.
Laghouat	.....	.....	29.81	757.1	50.0	10.0	62	sw.	.....	.....	1	.....	5	.....	.....	0.276	7.0	cloudy.....	Abraham.
Biskra	.....	.....	29.82	757.5	60.1	15.6	19	se.	.....	.....	7	.....	10	.....	.....	0	0	covered.....	Malau.
Australian.																			
Melbourne, Victoria	30.02	762.5	30.11	764.8	62.2	16.8	80	ssw.	6	2.7	.....	.....	1	.....	.....	0	0	very fine.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.52	749.9	30.11	764.9	24.8	— 4.0	82	se.	.....	.....	2	.....	10	.....	.....	0.610	0.4	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	29.30	744.1	30.13	765.2	15.8	— 9.0	75	e.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.26	743.1	30.21	767.3	19.8	— 6.8	68	calm	.....	.....	0	0	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.81	731.8	30.14	765.6	24.4	— 4.2	73	sw.	.....	.....	3	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.71	729.1	30.25	768.4	20.5	— 6.4	69	se.	.....	.....	3	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.40	721.3	29.80	756.9	29.1	— 1.6	82	ene.	.....	.....	2	c	7 k	.....	.....	0	0	fair	The Staff.
Lemberg	29.10	739.0	30.17	766.3	17.6	— 8.0	59	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Dr. L. Stanecki.
Neu Schmecks	26.56	674.5	30.09	764.2	28.0	— 2.2	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Dr. V. von Szontagh.
Szathmar	29.71	754.6	29.82	757.5	45.3	7.4	77	ene.	.....	.....	3	.....	10	.....	.....	0.157	4.0	.....	I. R. Hydrographic Office.
Szegedin	29.73	755.2	30.20	767.1	26.2	— 3.2	63	e.	.....	.....	3	.....	.....	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Trieste	29.87	758.6	30.16	766.1	30.6	— 0.8	.....	e.	.....	.....	2	.....	8	.....	.....	0	0	.....	Karl Stanecl.
Vienna	29.81	757.2	29.91	759.7	33.8	1.0	81	e.	.....	.....	5	.....	10	.....	.....	0.331	8.4	.....	Royal Academy.
	29.31	744.4	30.07	763.8	24.3	— 4.3	73	se.	.....	.....	4	.....	4	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.59	751.6	29.69	754.1	39.5	4.2	70	se.	22	9.8	.....	.....	10	.....	.....	0.050	1.3	squally.....	W. Boswell
Armagh, Observatory	29.24	742.7	29.48	748.8	40.9	4.9	91	e.	10	4.5	.....	.....	10	.....	.....	.....	.....	drizzling.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.53	750.0	38.2	3.4	89	ese.	14	6.3	.....	.....	10	.....	.....	.....	.....	overcast.....	John Hartnup.
Bolton, Sharples	29.01	736.8	29.55	750.6	37.0	2.8	90	e.	6	2.7	.....	.....	10	.....	.....	.....	.....	gloomy.....	Thomas Mackereth.
Bradford, Yorkshire	29.18	741.2	29.58	751.3	37.6	3.1	86	ne.	.....	.....	1	.....	10	.....	.....	0	0	overcast.....	McLandsborough&Preston
Bridgetown, Barbadoes	30.00	762.0	30.03	762.7	80.0	26.7	74	ne.	.....	.....	3	.....	8	.....	.....	.....	.....	raining	Corpl.J.Surgenor, A. H C.
Cardington	.....	.....	.....	.....	42.0	5.6	92	se	.....	.....	0.4	.....	10	.....	.....	.....	.....	overcast.....	John McLaren.
Chatham, School M. E	29.42	747.3	29.50	750.8	30.9	4.4	89	e.	.....	.....	1	.....	6	.....	.....	blank	blank	d. clouds.....	Corpl. G. A. Pickles.
Falmouth, Observatory	29.21	741.9	29.44	747.8	48.1	8.9	87	e.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds ...	The Staff.
Fort Napier, Natal	27.62	701.5	29.84	757.9	65.0	18.3	79	s.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast.....	Corpl. F. Milner, A. H. C.
Galway	29.31	744.5	29.35	745.5	40	7.8	92	se	.....	.....	3	.....	8	.....	.....	0.32	8.1	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	29.16	740.7	29.21	741.9	58.0	14.4	94	.....	.....	.....	.....	.....	7	.....	.....	.....	.....	gloomy.....	Sgt. J. Norris, A. H C.
Glasgow, Observatory	29.37	746.0	29.58	751.3	37.9	3.3	78	ene.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast.....	Harry Urquhart, Asst
Greenwich, Royal Obs'y	29.38	746.2	29.50	750.8	40.1	4.5	87	ese.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	The Staff.
Guernsey	29.18	741.2	29.48	748.8	41.0	5.0	95	se.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	A. Collenette, F. M. S
Kew, Observatory	29.52	749.8	29.50	750.8	40.4	4.7	86	e.	11	4.9	.....	.....	9	.....	.....	.....	.....	misty.....	The Staff.
Leicester, Museum	29.31	744.5	29.57	751.1	38.8	3.8	93	se.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	J. C. Smith.
Malta, Mediterranean	29.71	754.6	29.77	756.1	65.0	18.3	83	se.	.....	.....	2	.....	9	.....	.....	0	0	overcast.....	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.21	767.3	30.26	768.6	64.0	17.8	63	n.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe
Oscott, St. Mary's College	29.01	736.8	29.54	750.3	37.0	2.8	98	e.	.....	.....	3	.....	10	.....	.....	.....	.....	drizzling	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.32	744.7	29.55	750.6	40.0	4.4	90	e.	.....	.....	2	.....	10	.....	.....	.....	.....	misty.....	The Staff.
Plymouth	29.39	746.5	29.46	748.3	44.4	6.9	96	e.	.....	.....	3	.....	10	.....	.....	.....	.....	drizzling	John Merrifield.
Sandwick Manse, Orkneys	29.55	750.6	29.65	753.1	39.9	4.4	77	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	misty.....	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.24	768.1	30.31	769.9	37.0	2.8	62	e.	.....	.....	1	.....	5	.....	.....	blank	blank	d. clouds.....	W. H. Lyne.
Sheffield	29.30	744.2	29.58	751.3	37.4	3.0	94	ne.	.....	.....	1	.....	10	.....	.....	0.00	2.3	overcast.....	W. F. Cooper.
Shirehampton, Observatory	29.52	749.8	29.55	750.6	38.1	3.4	78	ese.	.....	.....	2	.....	10	.....	.....	0	0	overcast.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.56	750.8	38.1	3.4	79	e.	4	1.8	.....	.....	10	.....	.....	.....	.....	overcast.....	Rev. S. J. Perry.
Stratfield Turgiss	29.35	745.5	29.57	751.1	39.4	4.1	94	e.	.....	.....	2	.....	10	.....	.....	.....	.....	rain & fog...	Rev. C. H. Grimes, F.M.S.
Truro, Royal Institution	29.35	745.5	29.40	746.7	49	9.4	85	se.	.....	.....	6	.....	10	.....	.....	.....	.....	gloomy.....	W. Newcombe.
Valencia, Observatory	29.27	743.4	29.29	744.0	48.0	8.9	88	se.	20	8.9	.....	.....	10	.....	.....	.....	.....	raining.....	The Met'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	— 4	—20.0	.....	nw	5	2.2	.....	5 k	0	.....	.....	0	0	fair.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.86	758.4	29.91	759.7	— 5	—20.6	100	sw.	2	0.9	.....	0	0	.....	.....	0	0	hazy	H. J. Cundall, C. E
Chatham, N. B*	29.89	759.2	29.96	761.0	—16	—26.7	100	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	G. A. Blair
Cornwall	30.07	763.8	30.30	769.6	—19	—28.3	100	n.	.....	.....	1	2 cs	0	.....	.....	0	0	d. clouds....	Jas. Smith, M. A.
Dalhousie	29.90	759.4	29.96	761.0	— 3.5	—19.7	.....	w.	.....	.....	2	.....	0	.....	.....	0	0	blue sky.....	H. A. Johnson.
Father Point, Quebec*	29.99	761.7	30.01	762.2	— 5	—20.6	79	wsw.	30	13.4	.....	2 cs	0	w.	.....	0	0	clear.....	J. McWilliams.
Fort Garry, Manitoba*	28.68	728.5	29.58	751.3	8	—13.3	100	se.	22	9.8	.....	.....	10 s	.....	se.	0	0	cloudy	James Stewart.
Fredericton	29.78	756.4	30.03	762.7	— 6.9	—21.6	96	nw.	9	4.0	.....	1 cs	0	.....	.....	0	0	fair.....	Prof. Harrison, L. L. D.
Granton	29.17	740.9	30.39	771.9	10.6	—11.9	96	calm	0	0	.....	3 cs	0	s.	.....	0	0	blue sky.....	Jas. Grant.
Halifax, N. S*	29.79	756.7	29.94	760.5	0	—17.8	100	nw.	1	0.4	.....	0	hz.	.....	.....	0	0	hazy	A. Allison.
Hamilton	29.93	760.2	30.37	771.4	4.5	—15.3	87	sw.	.....	.....	1	4 c	0	sw.	.....	0	0	d. clouds....	Geo. Dickson, B. A.
Kingston, Ontario*	29.94	760.5	30.31	769.9	0	—17.8	95	n.	0	2.7	.....	.....	10cs	u	nw.	0.02	0.5	light snow...	A. P. Knight, M. A.
Montreal, Quebec*	30.05	763.3	29.29	769.4	—13	—25.0	100	n.	4	1.8	.....	.....	hz.	.....	.....	0	0	hazy.....	C. H. McLeod, C. E.
Ottawa	30.06	763.5	30.34	770.0	— 9.5	—23.1	100	calm	.....	.....	0	.....	0	.....	.....	0	0	blue sky.....	A. McGill, M. A.
Parry Sound, Ontario*	29.66	751.8	30.42	772.7	—15	—26.1	51	calm	0	0	.....	0	0	.....	.....	0.06	1.5	clear.....	Geo. B. Mostey.
Peterboro	29.54	750.3	30.39	771.9	0.4	—17.6	71	ne.	.....	.....	1	0	9 n	.....	.....	0.05	1.3	overcast.....	J. Dixon, B. A.
Port Dover, Ontario	29.00	751.8	30.36	771.1	11	—11.7	100	n.	3	1.3	.....	5 c	0	nw.	.....	0	0	fair.....	H. Morgan.
Port Stanley, Ontario	29.03	752.6	30.34	770.6	14	—10.0	83	w.	8	3.6	.....	.....	10 k	.....	w.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.80	756.9	30.17	766.3	— 9	—22.8	74	nw.	.....	.....	3	3 c	3 c	n.	.....	0	0	cloudy	Capt. Ashe, R. N.
Rockcliffe, Ontario*	29.86	758.4	30.41	772.4	—24	—31.1	95	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	W. H. McIntyre.
Saugeen, Ontario*	29.55	756.6	30.35	770.9	5	—15.0	79	e.	10	4.5	.....	.....	10 ks	.....	.....	0.02	0.5	cloudy	
St. Andrews, N. B	29.97	761.2	30.02	762.5	— 2	—18.9	100	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	
St. John, N. B	29.81	757.2	29.99	761.7	— 1.0	—18.3	100	ne.	4	1.8	.....	5 c	0	.....	.....	0	0	blue sky.....	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.76	755.9	19.4	— 7.0	.....	nw.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	The Commandant.
Stratford	28.94	735.1	30.36	771.1	5.2	—14.9	95	calm	0	0	.....	0	5 s	.....	.....	0.07	1.8	d. clouds....	O. J. Macgregor, M. A.
Sydney, C. B*	29.80	756.9	29.87	758.7	— 7	—21.7	100	calm	0	0	.....	2 cs	0	.....	.....	0	0	clear.....	T. C. Hill, C. E
Toronto, Ontario*	29.94	760.5	30.37	771.4	7	—13.9	96	n.	0	2.7	.....	0	3	.....	.....	0	0	clear.....	Magnetic Observatory.
Windsor	29.77	756.1	29.89	759.2	0.0	—17.8	100	n.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	Prof. W. H. Butler.
Woodstock	29.25	742.9	30.44	773.2	4.7	—15.2	87	sw.	7	3.1	.....	6 k	8	w.	.....	0	0	d. clouds....	Prof. Wolverton, M. A.
Yarmouth, N.S*	29.90	759.4	29.98	761.5	14	—10.0	66	nw.	2	0.9	.....	2 cs	8 k	w.	nw.	0	0	clear.....	Lt. F. E. Wilmot, R N.
Cape Colony.																			
Cape St. Francis Lt. House	30.09	764.3	30.12	765.0	69.4	20.8	73	sw.	10.7	7.5	.....	8 ck	0	.....	.....	0.010	0.3	light haze...	John Durbie.
Springbok Fontein	27.87	707.9	.....	.....	78	25.6	20	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.69	627.0	.....	.....	23.4	— 4.8	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.16	766.1	30.27	768.9	36.1	2.3	77	calm	.....	.....	0	.....	9	.....	.....	0	0	.....	**Mission, S. J.**
Zi-Ka-Wei, near Shanghai	30.18	766.6	30.21	767.2	44.6	7.0	97	e.	4.9	2.2	.....	10 n	.....	.....	.....	0.012	0.3	raining	M. Marc Dechevrens, S.J
Danish.																			
Copenhagen	29.98	761.5	30.03	762.7	29.3	— 1.5	76	se.	20	9	.....	.....	0	.....	.....	.....	.....	.....	**Oversergent Fischer.**
Fanoe	29.87	758.6	29.89	759.1	29.3	— 1.5	76	e.	.....	.....	6	.....	9	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	29.13	739.9	29.17	741.0	15.3	— 9.3	63	ene.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	**S. Kleinschmidt.**
Ivigtut, Greenland	29.18	741.1	29.20	741.6	17.2	— 8.2	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.20	741.6	29.24	742.8	20.5	— 6.4	.....	calm	.....	.....	0	.....	5	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.26	743.2	29.30	744.3	36.3	2.4	84	se.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	**A. O. Thorlacius.**
Thorshavn	29.56	750.9	29.60	751.8	44.2	6.8	90	se.	20	9	.....	.....	10	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Vestervig	29.88	759.0	29.97	761.3	27.1	— 2.7	92	ne.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	**Loerer Oesterbol.**
Upernavik, Greenland	29.21	741.8	29.25	743.0	4.3	—15.4	.....	calm	.....	.....	0	.....	4	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	28.97	735.7	29.61	752.2	50.4	10.2	97	calm	.....	.....	0	.....	n;kn	.....	.....	0	0	.....	**M. Labroue, Director.**
Alençon, Normal School	28.99	736.3	29.54	750.3	41.0	5	97	s.	.....	.....	1	.....	fg	n.	n.	0	0	foggy	**M. Nicot, Director.**
Arras, Engineer School	29.34	745.3	29.61	752 1	37.0	2.8	98	.....	.....	.....	4	.....	10	.....	.....	0.043	1.1	covered	**M. Fénéon, Commandt.**
Avignon, Normal School	29.53	750.0	29.61	752.0	54.0	12.2	59	e.	.....	.....	2	.....	5	.....	ese.	0.04	1.	cloudy	**M. Giraud, Director.**
Bar-sur-Seine	29.05	737.8	29.61	752.0	45.0	7.2	71	sse.	.....	.....	1	.....	10	.....	sse.	0	0	covered	**M. Saillard, Director.**
Beauvais, Normal School	29.33	745.0	29.60	751.8	41.0	5	87	e.	.....	.....	1	.....	8	.....	sw.	0.035	0.9	very cloudy	**M. Frère Eugène Marie.**
Besançon, Normal School	28.71	729.3	29.65	753.0	39.2	4	87	ne.	.....	.....	1	.....	cn	.....	ne.	0	0	.....	**M. Gobin, Director.**
Bordeaux, Observatory	29.22	742.1	29.48	748.7	45.3	7.4	85	sse.	.....	.....	1	.....	8	.....	.....	0	0	almost cov'd	**M. Rayet, Director.**
Bourges, Normal School	29.08	738.6	29.63	752.7	46.8	8.2	75	e.	.....	.....	1	.....	kn	.....	e.	0	0	.....	**M. Malet, Director.**
Brest, Naval Observatory	29.22	742.1	29.40	748.3	40.3	4.6	93	ese.	.....	.....	1	.....	10	.....	ese.	0	0	hazy	**M. de Kermaingé, Dir.**
Caen, Normal School	29.45	748.0	29.52	749.9	40.6	4.8	87	n.	.....	.....	1	.....	10	.....	.....	0	0	covered	**M. Berson, Director.**
Châlons-sur-Marne, N.Sch'	29.26	743 2	29.58	751.4	43.3	6.3	75	se.	.....	.....	1	.....	2	.....	.....	0.059	1.5	slightly cl'dy	**M. Jadot, Director.**
Charleville, Normal School	29.13	739.8	29.69	754.0	39.9	4.4	80	ese.	.....	.....	1	.....	5	.....	.....	0	0	½ covered	**M. Grimard, Director.**
Clermont-Ferrand Obs'y	28.21	716 5	29.55	750.6	52.2	11.2	58	se.	.....	.....	2	2 c; ck	0	se.	.....	0.008	0.2	¼ covered	**M. Allnard, Director.**
Cluny, Normal School	28.74	729.9	29.69	751.7	41.9	5.5	84	n.	.....	.....	1	.....	.....	.....	n.	0	0	.....	**M. de Villemontée, Dir.**
Commercy, Normal School	28.80	731.5	29.69	754.2	34.2	1.2	95	e.	.....	.....	1	.....	8 kn	e.	e.	0	0	very cloudy	**Dr. Coulet, Director.**
Gap, Normal School	27.13	689.0	29.69	754.0	43.7	6.5	65	ne.	.....	.....	1	.....	5 n	.....	.....	0	0	.....	**M. Jeangirard, Director.**
Gréasque, du Rhone	28.52	724.4	29.66	753.3	46.6	8.1	77	e.	.....	.....	4	.....	8	.....	se.	0.138	3.5	light rain	**M. Kina, Director.**
Grenoble, Normal School	28.86	733.1	29.65	753.0	41.7	5.4	81	ese.	.....	.....	1	ck	0	s.	.....	0	0	.....	**M. Ablard, Director.**
Guéret	28.01	711.4	29.59	751.5	46.4	8	72	se.	.....	.....	1	ck	0	s.	.....	0	0	.....	**M. Delorme, Dir.**
Lamballe, Normal School	29.18	741.1	29.45	747 9	38.1	3.4	97	se.	.....	.....	3	.....	10	.....	se.	0.04	1.	covered	**M. Offitrault, Director.**
Lescar, Normal School	28.80	731.5	29.36	745 7	50.0	10.0	80	e.	.....	.....	1	0	0	.....	.....	0	0	clear	**M. Chauvin, Director.**
Lorient, Naval Observatory	29.39	746.4	29.49	749.0	42.1	5.6	81	e.	.....	.....	1	.....	10	.....	.....	0.197	5.0	foggy	**Lt. T. Carré, Director.**
Lyon, St. Genis-Laval	28.57	725 7	29.65	753.2	37.6	3.1	97	e.	.....	.....	1	c	8 k	se.	ene	0.020	0.5	foggy	**M. André, Director.**
Mans, Normal School	29.26	743.3	29.58	751.3	40.1	4.5	80	e.	.....	.....	1	.....	2	.....	sw.	0	0	slightly cl'dy	**M. Piboën, Director.**
Marseille, Observatory	29.37	745 9	29.64	752.8	52.0	11.1	85	ese.	.....	.....	4	.....	5	.....	se.	0.291	7.4	.....	**M. Stephan, Director.**
Montlouis	28.23	717.1	29.14	740.1	33.8	1.0	81	w.	9.4	4.2	.....	.....	5	nw.	.....	0	0	.....	**M. Caré for Dr. Finot.**
Montpellier, Normal School	29.45	748.0	29.58	751.3	49.6	9.8	92	e.	.....	.....	3	.....	5	.....	e	0.437	11.1	raining	**M. Galzin, Director.**
Nancy, Normal School	28.84	732.4	29.64	752.9	33.1	0.6	96	ne	.....	.....	1	.....	n	.....	.....	0	0	.....	**M. Basse, Director.**
Nantes, Observatory	29.37	746.0	29.53	750.1	46.9	8.3	88	e.	.....	.....	0–1	7 c; ck	0	sw.	.....	0	0	.....	**M. Larocque, Director.**
Perpignan, Observatory	29.39	746.6	29.59	749.4	52.3	11.3	75	se.	11.2	5.0	.....	.....	7	.....	wsw.	1.638	41.6	.....	**Dr. Fines, Director.**
Pic-du-Midi, Summit	20.69	525.4	.....	.....	23.5	— 4.7	.....	sw.	.....	.....	1	.....	5	.....	sw.	0	0	cloudy	**M. Vaussenat.**
Privas, Normal School	28 57	725.6	29.65	753.1	41.4	5.2	97	s.	.....	.....	1	.....	10	s.	s.	0.28	7.	covered	**M. Taillen.**
Puy de Dôme Obs'y, Summit	24.62	625.4	.....	.....	31.5	— 0.3	100	sse.	.....	.....	8	.....	10	.....	.....	0.004	0.1	foggy	**M. Allnard, Director.**
Rochefort, Naval Obs'y	29.46	748.3	29.49	749.1	48.9	9.4	79	se.	.....	.....	1	.....	10	.....	sse.	0.08	2.	covered	**Lt. E. Decaute, Director.**
Roche-sur-Yon, N. School	29.26	743.1	29.47	748.5	47.7	8.7	76	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. Brotier, Director.**
Rodez, Normal School	27.35	694.7	29.50	749.4	43.5	6.4	74	w.	.....	.....	1	.....	n	.....	w.	0.453	11.5	.....	**M. Seger, Director.**
Rouen, Normal School	29.54	750.2	29.58	751.4	42.8	6	85	sse.	.....	.....	1	.....	8	se.	.....	0	0	very cloudy	**M. Moullot.**
Saint Lô	.....	.....	.....	.....	39.6	4.2	93	se.	.....	.....	1	.....	10	.....	se.	0	0	covered	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.42	747 2	29.58	751.4	47.1	8.4	74	ese.	.....	.....	1	.....	1	s.	.....	0.020	0.5	.....	**M. Renou, Director.**
Toulouse, Observatory	28.79	731.2	29.50	749.2	47.3	8.5	90	nw.	.....	.....	1	.....	10	se	.....	0	0	covered	**M. Baillaud, Director.**
Tours	29.35	745 4	29.52	749 8	46.8	8.2	86	ne.	.....	.....	1	.....	1	sw.	s.	0	0	clear	**M. de Tastes.**
Versailles, Observatory	29 08	738.6	29.57	751.0	45.7	7.6	77	se.	.....	.....	1	.....	.....	.....	.....	0	0	.....	**Dr. A. Bérigny, Director.**
Sub-series.																			
St. Martin du Hinx	29.34	745.2	29.49	749.0	49.3	9.6	69	.....	.....	.....	.....	3 c	0	e.	.....	0	0	.....	**M. Curtier, Director.**
German.																			
Ansbach	28.26	717.9	29.77	756.1	32.4	0.2	55	e.	.....	.....	4	.....	4	e.	.....	0	0	.....	**Prof. Jnedt.**
Bamberg	28.89	733.9	29.73	755.1	32.0	0	55	se.	.....	.....	1	.....	1 8	.....	.....	0	0	.....	**Prof. Dr. Hoh.**
Berlin	29.76	756 0	29.92	760 0	25.3	— 3.7	54	e.	.....	.....	2	.....	4	.....	.....	0	0	.....	**Dr. Lonsch.**
Breslau	29.46	748.2	29.99	761.7	26.2	— 3.2	48	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	**Royal University Obs'y.**
Carlsruhe	29.26	743.1	29.71	754.5	35.2	1.8	63	e.	.....	.....	1	.....	1	sw.	.....	0	0	.....	**Albert Senz.**
Cassel	28.98	736.2	29.70	754.3	33.1	0.6	78	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	**Dr. H. Möhl.**
Frankfort-on-the-Main	29.37	746.1	29.76	755 8	33.8	1.0	55	e.	.....	.....	1	.....	1	.....	.....	0	0	.....	**Physical Society.**
Friedrichshafen	28.24	717.3	29.73	755.1	32.7	0.4	75	w.	.....	.....	2	.....	5	w.	.....	0	0	.....	**Wilhelm, Chief Tel.**
Hamburg	29.78	756.4	29.87	75[illegible]7	23.7	— 4.6	67	ene.	.....	.....	4	.....	0	.....	.....	0	0	.....	**E. Preller.**
Kiel	29.89	759 2	29.91	759.6	27.0	— 2.8	75	ene.	.....	.....	4	.....	0	.....	.....	0	0	.....	**Prof. Dr. G. Karsten.**
Leipsic, Astron'l Obs'y	29.40	746 7	29.84	757.9	29.8	— 1.2	50	se.	.....	.....	2	.....	6	.....	.....	0	0	.....	**H. Leppig, Asst.**
Magdeburg	29.64	752 8	29.83	757.6	29.7	— 1.3	40	e.	.....	.....	2	4 c	0	wsw.	.....	0	0	.....	**Weather Observatory.**
Memel	30.04	762.9	30.08	764.1	31.1	— 0.5	79	nw.	.....	.....	5	.....	10 k	.....	.....	.....	.....	.....	**Issermann.**
Munich	27.85	707.5	29.70	754.3	35.8	2.1	65	e.	.....	.....	1	.....	3	e.	.....	0	0	.....	**Central Station.**
Neufahrwasser	30.11	764.7	30.12	765.1	26.4	— 3.1	63	s.	.....	.....	2	.....	2	.....	.....	0	0	.....	**A. Lothes.**
Neustadt, Palatinate	29.18	741.2	29.71	754.5	33.4	0.8	76	ene.	.....	.....	1	.....	9	.....	.....	0	0	.....	**Dicknether.**
Stuttgart	28.74	729.9	29.66	753.4	31.6	— 0.2	85	e.	.....	.....	1	.....	3	w.	.....	0	0	foggy	**Prof. Dr. Schoder.**
Wustrow	29.97	761.2	29.99	761.8	25.0	— 3.9	84	e	.....	.....	2	0	3 s	.....	.....	0	0	.....	**Profs. Brandes & Reimer.**
Greek.																			
Athens	29.80	757.0	30.20	767.1	47.5	8.6	.....	n	.....	.....	4.0	.....	10	.....	.....	0	0	covered	**Schmidt & Wourlisch.**
Indian.																			
Kurrachee	30.08	764.1	30.13	765.4	72.6	22.6	63	w.	11.0	4.9	.....	.....	9	sw.	.....	0	0	gloomy	
Deesa	29.54	750 2	30.02	762.4	78.8	26.0	31	wnw.	10.0	4.5	.....	.....	8	wsw.	.....	0	0	d. clouds	
Bombay	29.94	760.3	29.97	761.3	81.3	27.4	66	wnw.	19.0	8.5	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.11	714.0	29.97	761.2	81.2	27.3	28	ne.	8.0	3.6	.....	.....	2	w.	.....	0	0	d. clouds	
Belgaum	27.40	696.0	29.95	760.7	70.9	24.9	36	e.	12.0	5.4	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.29	744.0	30.07	763.7	63.6	17.6	43	calm	0	0	.....	.....	2	.....	.....	0	0	blue sky	
Roorkee	29.12	739.6	30.05	763.3	63.6	17.6	48	w.	.....	.....	.....	.....	9	w.	.....	0	0	.....	
Agra	29.51	749.6	30.10	764.5	66.8	19.3	44	w.	.....	.....	.....	.....	6	.....	w.	0	0	d. clouds	
Nagpur	28.98	736.0	30.03	762.8	77.5	25.3	42	ene.	2.0	0.9	.....	.....	2	w.	.....	0	0	d. clouds	
Jubbulpore	28.70	728.9	30.09	764 2	70.2	21.2	48	ne.	2.0	0.9	.....	.....	2	ne.	.....	0	0	d. clouds	
Lucknow	29.68	753.9	30.07	763.8	67.3	19.6	40	calm	0	0	.....	.....	3	.....	.....	0	0	d. clouds	
Allahabad	29.70	756.0	30.09	764.4	60.9	16.1	87	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.89	759 1	30.08	764.0	64.4	18.0	68	w.	3.8	1.7	.....	.....	4	w.	w.	0	0	d. clouds	
Hazaribagh	28.01	711.5	30.11	764.8	58.9	14.9	68	nnw.	5.5	2.5	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.95	760.8	30.04	762.9	75.0	23.9	62	nnw.	3.0	1.3	.....	.....	3	.....	.....	0	0	d. clouds	
Calcutta, Alipore	30.03	762.8	30.06	763.4	67.0	19.4	59	nnw.	2.0	0.9	.....	.....	5	.....	.....	0	0	d. cloudy	
Dhubri	29.93	760 1	30.05	763.3	66.0	18.9	71	calm	1.6	0.7	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.93	760.3	30.03	762.7	68.6	20.3	65	w.	2.5	1.1	.....	.....	2	.....	.....	0	0	blue sky	
Sibsagar	29.69	754 1	30.04	763.1	60.1	15.6	86	ne.	2.0	0.9	.....	.....	2	.....	.....	0	0	blue sky	
Zanzibar	29.79	756.6	29.81	757.2	85.7	29.8	61	e	11.0	4.9	.....	.....	0	.....	.....	0	0	blue sky	
Jeypore	28.60	726.4	30.09	764.3	65.7	18.7	53	nw.	3.2	1.4	.....	.....	7	nw.	.....	0	0	d. clouds	
Bellary	28.49	723.6	.....	.....	80.0	26.7	37	e.	8	3.6	.....	3 c	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.70	754.4	.....	.....	80.5	26.9	58	ne.	1	0.4	.....	.....	0	.....	.....	0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.53	750.1	29.95	760.8	34.2	1.2	74	se.	7.4	3.3	.....	.....	10	.....	.....	0.012	0.3	.....	Prof. Giovanni Clodig.
Milan	29.41	747.1	29.95	760.8	32.4	0.2	94	w.	2.5	1.1	.....	.....	10	.....	.....	0.343	8.7	.....	Prof. Schiapparelli.
Padua	29.80	756.9	29.91	759.8	34.2	1.2	80	nne.	10.5	4.7	.....	.....	10	.....	.....	0.441	11.2	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.00	736.6	29.95	760.6	33.8	1.0	94	ne.	0	0	.....	.....	10	.....	.....	0.689	17.5	.....	Prof. F. F. Denza.
Genoa	29.62	752.3	29.81	757.2	38.3	3.5	78	ne.	11.2	5.0	.....	.....	10	s.	.....	0.770	19.7	.....	Prof. G. M. Garibaldi.
Mondovi	27.96	710.1	29.95	760.6	31.8	— 0.1	92	w.	.....	.....	4	.....	10	.....	.....	0.472	12.0	.....	Prof. D. C. Bruno.
Pesaro	29.74	755.5	29.80	756.8	41.4	5.2	97	w.	1.8	0.8	.....	.....	10	.....	.....	0.276	7.0	.....	Prof. Luigi Guidi.
Florence	29.52	749.7	29.78	756.3	47.5	8.6	78	ne.	.....	.....	2	.....	10	.....	.....	0.453	11.5	.....	Prof. Costantino Pittei.
Leghorn	29.60	751.9	29.09	754.1	48.2	9.0	81	ene.	15.4	6.9	.....	.....	10	sw.	.....	0.510	13.1	.....	Prof. P. Monte.
Rome	29.56	750.9	29.74	755.4	60.3	15.7	56	s.	13.0	5.8	.....	.....	9	sw.	.....	0	0	.....	Prof. P. Tachini.
Lecce	29.04	752.8	29.89	759.3	57.2	14.0	82	se.	10.1	7.2	.....	.....	10	se.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	28.97	735.8	29.87	758.6	52.9	11.6	76	sse.	1.8	0.8	.....	.....	2	se.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.40	746.7	29.60	751.7	61.3	16.3	61	se.	.....	.....	4	.....	8	.....	.....	0.106	2.7	.....	Prof. A. Pacinotti.
Palermo	29.47	748.5	29.72	754.9	68.5	20.3	40	sw.	8.7	3.9	.....	.....	8	.....	.....	0	0	.....	Prof. G. Caccatore.
Syracuse	29.76	756.0	29.81	757.1	59.0	15.0	89	nne.	3.8	1.7	.....	.....	10	se.	.....	c	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.28	743.6	29.80	756.8	57.6	14.2	65	s.	1.8	0.8	.....	.....	7	nw.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	21.84	554.8	.....	.....	20.5	— 6.4	87	e.	.....	.....	2	.....	4	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	21.85	555.0	.....	.....	19.4	— 7.0	70	ne.	.....	.....	2	.....	10	.....	.....	0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.09	764.3	30.12	765.1	20.1	— 6.6	96	w.	.....	.....	6	.....	10 n	.....	.....	0.087	2.2	snowing	Hattori.
Awomori	30.02	762.5	30.06	763.5	16.0	— 8.9	97	w.	18.4	8.2	.....	0	4 ks	.....	.....	0.126	3.1	fair	K. Ogawa.
Hakodate	30.01	762.2	30.02	762 5	15.3	— 9.3	80	n.	13.2	5.9	.....	0	1	.....	.....	0.028	0.7	cleat	
Hamamatsu	30.18	766.6	30.21	767.3	37.9	3.3	74	nw.	.....	.....	4	0	0	.....	.....	0	0	clear	
Kagoshima	30.27	768.8	30.28	769.1	41.3	5.2	75	nw.	.....	.....	2	0	0	.....	.....	0	0	clear	G. Miyanohaza.
Kioto	30.12	765 0	30.30	769 6	39.4	4.1	74	nnw.	3.5	1.5	.....	.....	10s;ck	.....	.....	0	0	cloudy	M. Tojima.
Kochi	30.27	768.8	30.29	769.3	44.2	6.8	65	e.	6.0	2.7	.....	0	8	.....	nw.	0	0	cloudy	K. Kusunose.
Miasaka	30.26	768.7	30.29	769.4	41.0	5.3	88	calm	.....	.....	0	0	1 s	.....	ssw.	0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.09	764.2	30.30	769.5	42.3	5.7	65	nne.	1.8	0.8	.....	0	2 8	.....	.....	0	0	clear	S. Takehayashi.
Niigata	30.20	767.1	30.24	768.1	32.4	0.2	96	wnw.	35.1	15.6	.....	.....	9 n;ck	.....	wsw.	0.005	0.1	light snow	M. Morita.
Noshiro	30.07	763.7	30.08	764.1	24.5	— 4.2	87	nw.	20.8	9.3	.....	.....	10 n	.....	.....	0.110	2.8	snowing	H. Midzushima.
Numazu	30.05	763.1	30.08	764.0	34.0	1.1	71	calm	.....	.....	0	0	0	.....	.....	0	0	clear	R. Kaneda.
Sakai	30.30	769.7	30.32	770.0	37.9	3.3	83	w.	.....	.....	2	0	5 ks	.....	w.	0.008	0.2	fair	K. Yamawchi.
Sapporo	.....	.....	.....	.....	18.0	— 7.8	90	w.	13.2	5.9	.....	.....	10	.....	.....	0.078	2.0	covered	
Tokei Obs'y, Yeddo	30.01	762.2	30.09	764.2	38.1	3.4	52	nw.	4.9	2.1	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	30.23	767.8	30.28	769.2	40.7	4.8	65	calm	0	0	.....	0	0	.....	.....	0	0	clear	Y. Kuwamura.
Osaka	30.27	768.9	30.29	769.3	35.1	1.7	79	nne.	3.2	1.4	.....	0	1 s	.....	.....	0	0	clear	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.73	755.1	29.92	760.0	83.0	28.3	64	ene.	17.0	7.6	.....	5ck;cs	4 k;ks	w.	ne.	0	0	cloudy	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	51	10.6	94	s.	.....	.....	.....	.....	.....	.....	.....	.....	.....	dense fog	H. Diaz Pena.
Guanajuato	23.70	602.0	29.92	760.0	48.6	9.2	81	calm	0	0	.....	0	0	.....	.....	0	0	foggy	Prof. Vicente Fernandez.
Leon	24.35	618.5	30.21	767.3	44.4	6.9	88	nnw.	.....	.....	1	1 c	1 k	sw.	sw.	0	0	dense fog	Prof. M. Leal.
Manzatlan	29.80	756.8	30.06	763.5	61.5	16.4	80	nne.	1.6	0.8	.....	2 cs	0	.....	.....	0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.2	30.37	771.4	37.4	3.0	62	calm	0	0	.....	0	0	.....	.....	0	0	very fine	The Staff.
Morelia	24.30	617.3	30.19	766.8	43.5	6.4	72	se.	.....	.....	2	0	0	.....	.....	0	0	clear	M. Tena, M. D.
Puebla, Catholic Institute	23.41	594.7	30.52	775.1	32.9	0.5	.....	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
Zacatecas	22.51	571.7	30.26	768.5	44.0	6.8	56	sw.	5.2	2.3	.....	0	0	.....	.....	c	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.63	752.6	29.63	752.6	37.2	2.9	.....	se.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	29.09	754.0	29.74	755.4	25.2	— 3.8	.....	e.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Hellevoetsluis	29.05	753.1	29.65	753.1	33.8	1.0	78	e.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Utrecht	29.03	752.7	29.68	753 9	30.3	2.4	56	e.	.....	.....	2	.....	2	.....	.....	0	0	lightly cl'dy	H. van der Brink
Sub-series.																			
Batavia, Java	29.89	759 1	.....	.....	77·9	25.5	89	nw.	0.5	0.2	.....	.....	9	.....	.....	0.98	25.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.89	759.3	29.96	760.9	24.4	— 4.2	91	sw.	2	1	.....	.....	1	.....	.....	0	0	.....	
Brono	30.01	762.3	30.05	763.3	24.8	— 4.0	73	calm	0	0	.....	.....	0	.....	.....	0	0	.....	
Christiania	29.98	761.4	30.14	765.5	11.7	—11.3	85	e.	0	0	.....	.....	3	.....	.....	0	0	foggy	
Gjæsvær	29.95	760.8	29.98	761.4	21.9	— 5.6	.....	wnw.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	
Lodingen	30.10	764 4	30.14	765.6	24.8	— 4.0	59	calm	.....	.....	0	.....	4	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	29.87	758.8	30.03	762.8	63.3	17.4	90	nw.	14.3	6.4	.....	.....	5	.....	.....	c.177	4.5	.....	Dr. J. A. Sampaio.
Campo Major	28.41	721.7	29.41	747.1	49.8	9.9	84	nne.	13.6	6.1	.....	.....	8	.....	.....	1.913	48.6	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	29.86	758.5	29.95	760.7	66.2	19.0	63	se.	3.1	1.4	.....	.....	5	.....	.....	0.079	2.0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.18	741.2	29.54	750.3	53.4	11.9	72	n.	21.7	9 7	.....	.....	3	.....	.....	1.228	31.2	.....	The Staff.
Ponta Delgada, Azores	29.99	761.7	30.06	763.5	66.9	19.4	72	nw.	11.9	5.3	.....	.....	3	.....	.....	0.140	3.7	.....	
Saint Paul de Loando	29.66	753.9	29.88	759.0	77.4	25.2	97	nw.	1.3	0 6	.....	.....	10	.....	.....	0	0	.....	
Serra da Estrella	24.73	628.1	29.52	749 9	32.5	0.3	100	e.	.....	.....	.....	.....	10	.....	.....	.....	.....	foggy	
RUSSIAN.																			
Akmollinski	28.69	728.8	29.83	757.6	23.4	— 4.8	93	s.	22	10	.....	.....	10 n	.....	.....	.....	.....	.....	Major K. Lasarew.
Archangel	29.71	754.7	29 73	755.2	—21.3	—29.0	79	e.	4	2	.....	0	0	.....	.....	0	0	.....	Capt. Sselliwerstow.
Ashurada	29.90	759 5	29.81	757.1	50.7	13.7	70	ene.	9	4	.....	.....	9 ku	.....	.....	blank	blank	.....	
Astrakhan	30.21	767.3	30.13	765.2	— 3.5	—19.7	74	w.	40	18	.....	0	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.17	766.4	30.13	765.2	27.3	— 2.6	94	n.	31	14	.....	.....	10 k	.....	.....	0	0	.....	
Barnaul	29.96	760 9	30.52	775.1	0.8	—14.0	80	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Bielosersk	29.14	740.1	29.66	753.4	— 0.2	—21.2	88	calm	0	0	.....	.....	10 n	.....	.....	0.020	0.5	snow & fog	
Dorpat	29.62	752 4	29.88	758.9	22.6	— 5.2	96	n.	11	5	.....	0	4 ks	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28 24	717 2	29.26	743.1	11.3	—11.5	96	ne.	9	4	.....	.....	10	.....	.....	0.110	2.8	snowing	Meteorological Obs'y.
Elisawetgrad	29.80	756.8	30.30	769.5	8.1	—13.3	76	wsw.	13	6	.....	0	0	.....	.....	0	0	.....	
Irkutsk	28.70	729 0	30.49	774.5	13.1	—10.5	100	calm	.....	.....	0	.....	8	.....	.....	0.071	1.8	.....	
Kasan	29.13	739.8	29.43	747.6	—17.9	—27.7	74	w.	7	3	.....	.....	10	.....	.....	0.031	0.8	.....	
Kem	29.52	749.7	29.57	751.0	14.0	—10.0	97	calm	0	0	.....	.....	10	.....	.....	0.083	2.1	heavy cl'ds	Observatory.
Kertch	30.34	770 0	30.36	771.2	14.9	— 9.5	87	nw.	7	3	.....	2 c	0	.....	.....	0	0	.....	
Kieff	29.43	747.4	30.13	765.2	8.4	—13.1	72	wnw.	11	5	.....	.....	9 ks;n	.....	.....	0	0	.....	Lagorio & Snatyrez.
Koslov	29.18	741.2	29.77	750.2	— 8.3	—22.4	88	wsw.	9	4	.....	.....	10 s	.....	.....	0.071	1.8	.....	Observatory.
Libau	30.01	762.2	30.03	762.8	31.8	— 0.1	83	wnw.	13	6	.....	.....	10	.....	.....	0	0	.....	
Lugan	29.83	757.7	30.04	763 0	4.3	—15.4	72	wsw.	22	10	.....	.....	4	.....	.....	0	0	light clouds	E. Quana.
Moscow	29.13	739.8	29.66	753.4	— 2.2	—19.0	83	w.	3.4	1.5	.....	.....	10 n	.....	.....	.....	.....	light snow	Meteorological Obs'y.
Nikoliev	30.25	768.4	30.35	770.3	14.4	— 9.8	81	sw.	9	4	.....	0	0	.....	.....	0	0	.....	
Nikolaievsk-on-the-Amoor	29.95	760.6	30.03	762.8	— 0.5	—21.4	71	calm	0	0	.....	.....	10	.....	.....	0.010	0.4	.....	Capt. Kurdakow.
Pekin, Chinan	30.11	764.9	30.20	768.5	29.3	— 1.5	62	calm	0	0	.....	0	3 k	.....	.....	0	0	.....	Iwanow.
Petrozavodsk	29.39	746 5	29.61	752 0	7.2	—13.8	83	nnw.	9	4	.....	c	9 ks	.....	.....	0.024	0.6	.....	Physicla Observatory.
Pinsk	29.59	751.6	30.13	765.2	17.4	8.1	53	w.	13	6	.....	.....	9 s	.....	.....	0	0	.....	Dr. Bergmann.
Poti	30.23	767 8	30.25	768.3	32.2	0.1	100	e.	4	2	.....	.....	10 n	.....	.....	0.756	19.2	.....	
St. Petersburg	29.71	754.7	29.73	755.1	5.2	—14.9	100	nw.	2	1	.....	0	1 ks	.....	.....	0.035	0.9	.....	Central Physical Obs'y.
Samarkand	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Sevastopol	30.17	766.2	30.33	770.4	25.9	— 3.4	60	se.	7	3	.....	0	3 s	.....	.....	0	0	.....	
Semipalatinsk	29.71	754.7	30.42	772.7	13.3	—10.4	100	e.	13	6	.....	.....	10	.....	.....	0	0	.....	Major Lasarew.
Starol Bykhov	29.42	747 3	29.92	759 9	10.7	— 8.5	79	sw.	13	6	.....	.....	10	.....	.....	.....	.....	snowing	
Tiflis	28.09	728 6	30.19	766.8	27.9	— 2.3	45	nw.	45	20	.....	.....	9 s	.....	.....	0	0	.....	
Tomsk	30.11	764.9	30.42	772.7	11.8	—11.2	77	se.	16	7	.....	.....	10	.....	.....	.....	.....	.....	Physical Observatory.
Viatka	28.76	730 6	29.47	748.6	—15.9	—26.6	.....	nnw.	2	1	.....	.....	7	.....	.....	0	0	.....	
Warsaw	29.69	754.1	30.15	765.9	13.3	—10.4	83	s.	4	2	.....	1 cs	0	.....	.....	0	0	.....	Astronomical Obs'y.

STATIONS.	Barometer: Corrected for instrumental error and for temperature.		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Wilna	29.54	750.4	29.99	761.7	22.8	— 5.1	93	w.	2	1			10			0.012	0.3	heavy clouds	**Berg, Assistant.**
Yeniseisk	30.17	766.4	30.51	774.9	—10.1	—23.4	81	se.	4	2			4			0.016	0.4	snowing	**M. O. Marks.**
Scottish.																			
Monach Lt			29.47	748.5	43	6.1	91	sse.			6		10			0.1	25.	cloudy	**J. Youngclause**
North Unst			29.82	757.4				se.			7		10			blank	blank		**Robt. Burnet.**
Spanish.																			
Barcelona, Met. Obs'y	29.39	746.5	29.50	749.2	54.0	12.2	72	ne.	3.1	1.4			9			0.602	15.3	covered	**Antonio Rave, Director.**
Bilbao, Met. Obs'y	29 45	748 0	29.51	749.5	54.3	12.4	65	s.	2.7	1.2		3	0	s.		0	0	almost clear	**Prof. Manuel de Naveran.**
Burgos, Met. Obs'y	26.53	673.8	29.55	750.5	37.4	3.0	91	n.	3.1	1.4			9			0	0	almost cov'd	**Domingo Martin.**
Madrid, Royal Obs'y	27.22	691.3	29.47	748.5	43.0	6.1	86	n.	15.0	6.7			10			0.035	0.9	rainy	**The Staff.**
Murcia, Met. Obs'y	29.17	740.9	29.29	744.0	52.2	11.2	97	ene.	4.0	1.8		5	5			0.689	17.5	raining	**Olayo Diaz, Director.**
Oviedo	28.64	727.4	29.51	749.6	40.6	4.8	86	e.	11.6	5.2		5 km	5 km	w.	e.	0.063	1.6	covered	**Prof. L. G. Fradss.**
Santiago, Met. Obs'y	28.56	725.5	29.45	748.1	52.0	11.1	81	calm	0	0			1			0.020	0.5	almost clear	**R. Gil Villanueva, Dir.**
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.94	760.4	30.00	761.9	77.8	25.4	66	nne.	4.9	2.2		0	0			0	0	clear	**P. F. Faura, S. J.**
San Fernando, Naval Obs'y	29 21	742 0	29.31	744.5	56.7	13.7	85	nw.	3.3	1.5			10		nnw.	2.432	61.8	raining	**Capt. C. Pujazon, R. N.**
San Juan de Porto Rico, W. I	30.03	762.8	30.12	765.1	74.1	23.4	89	calm	0	0		3 s	5 k	se.	se.	0.323	8.2	d. clouds	**Manuel Maese.**
Swedish.																			
Hapsranda	29.97	761.1	30.00	762.1	10.4	—12.0	85	n.			2		2			0	0		
Umea	30.06	763.6	30.11	764.9	6.4	—14.2	92	n.			2		5			0	0		
Hernosand	30.04	763.1	30.10	764.4	11.8	—11.2	93	calm			0		0			0	0		
Stockholm	29.90	759.4	30.08	763.9	22.8	— 5.1	85	n.			2		9			0	0		
Wisby	30.00	762.0	30.06	763.5	29.1	— 1.6	88	nw.			4		10			0	0		
Sub-series.																			
Upsala	29.98	761.6	30.07	763.8	21.9	— 5.6	99	nnw.	2.7	1.2			4		ne.	0	0		**S. G. Ememan.**
Swiss.																			
Geneva	28.26	717.9	29.75	755.6	35.6	2.0	86	ne.			1		10			0	0	misty	**The Observatory.**
Turkish.																			
Constantinople			30.35	770.8	36.5	2.5	71	ene.	13	6.0			6		n.	0	0		**The Observatory.**
Valona			30.01	762.2	56.1	13.4		e.			1		10			0	0	covered	**A. Bertrand.**
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.08	764.1	66.2	19.0	74	sw.			3		3 ks		sw.	0.03	0.8		**Prof. C. V. A. van Dyck.**
Samokov, Bulgaria	26.68	677.7			26	— 3.3		calm			0	0	0			0	0	clear	**Fred L. Kingsbury.**
United States.																			
Albany, New York	30.22	767.6	30.31	769.9	0	—17.8	76	ne.	4	1.8		5 cs	3 s	n.	n.	0	0	cloudy	**J. O. Barnes.**
Alpena, Michigan	29.61	752.1	30.32	770.1	0	—17.8	68	w.	3	1.3			10 s		w.	0.01	0.3	cloudy	**Jas. J. Fitzgerald.**
Apache, Fort, Arizona	24.92	633.0	30.04	763.0	19	— 7.2	73	e.	1	0.4		0	6 s			0		fair	**W. O. Barnes.**
Assinnaboine, Ft., Montana	27.17	690.1	30.21	767.3	6	—14.4	76	nw.	20	8.9			10 n		nw.	0.10	2.5	light snow	**B. O. Lenoir.**
Atlanta, Georgia	29.22	742 2	30.44	773.2	17.5	— 8.1	83	nw.	3	1.3		1 cs	0			inap.	inap.	clear	**H. C. Smith.**
Atlantic City, New Jersey	30.34	770.6	30.35	770.9	9	—12.8	55	nw.	12	5.4		0	0			0.02	0.5	clear	**Jas. M. Watson.**
Augusta, Georgia	30.32	770.1	30.52	775.2	23	— 5.0	73	n.	2	0.9		2 c	0			0	0	clear	**John Healy.**
Baltimore, Maryland	30.39	771.9	30.44	773.2	15	— 9.4	67	nw.	3	1.3		0	fg.			inap.	inap.	clear	**Geo W Folger**
Barnegat, New Jersey	30.30	769.6	30.32	770.1	10.0	—12.2	80	nw.	22	9.8		0	0			inap.	inap.	clear	**G. A. Hill.**
Behring Id., Behring Sea	29.32	744.7	29.34	745.2	25.0	— 3.9		ne.	13	5.8		0	3 s			0.04	1.0	clear	**Leonard Steineger.**
Bennett, Fort, Dakota	27.78	705.6	29.52	749.8	17	— 8.3	83	calm	0	0			10 s			0	0	cloudy	**A. Pritchard**
Benton, Fort, Montana	27.23	691.6	30.21	767.3	10	—12.2	80	ne.	16	7.2			10 n		ne.	inap.	inap.	light snow	**S. Wheaton.**
Billings, Montana	26.48	672.6			16	— 8.9		nw.	48	21.5			10 s			0	0	cloudy	**T. Gibson.**
Bismarck, Dakota	27.55	699.8	29.54	750.3	14	—10.0	83	e.	2	0.9		0	3 s			0	0	clear	**Cyrus Cramer.**
Block Island, Rhode Island	30.19	766.8	30.22	767.6	13	—10.6	61	n.	24	10.7		0	0			0	0	clear	**J. T. Eiker.**
Boise City, Idaho	27.32	693.9	30.25	768.3	18	— 7.8	87	w.	4	1.8		0	0			0.08	2.0	clear	**B. E. Light**
Boston, Massachusetts	30.02	762.5	30.19	766 8	10.0	—12.2	58	nw.	13	5.8		0	2 s		nw.	inap.	inap.	clear	**O. B. Cole.**
Brownsville, Texas	29.97	761.2	30.02	762.5	59.0	15.0	87	s.	9	4.0		0	4 s		s.	0	0	fair	**M. McCarty.**
Buffalo, New York	29.54	750.3	30.34	770.6	14.8	— 9.6	84	sw.	12	5.4			10 s		sw.	0.03	0.8	cloudy	**W. Finn.**
Buford, Fort, Dakota	27.58	700 5	30.78	781.8	10	—12.2	80	w.	28	12.5			10 s			0	0	cloudy	**F. A. Mellen.**
Burlington, Vermont	29.97	761.2	30.28	769.1	— 4.0	—20.0	65	e.	7	3.1		1 cs	0	w.		0	0	clear	**G. O. Schaeffer.**
Cairo, Illinois	29.91	759 7	30.33	770.4	21.0	— 6.1	84	s.	5	3.6		0	fg			inap.	inap.	clear	**W. H. Ray.**
Cape Henry, Virginia	30.41	772 4	30.43	772.9	22	— 5.6	73	n	32	14.3		0	4 k		n.	0	0	fair	**A. K. Alderson.**
Cape May, New Jersey	30.36	771.1	30.40	772.1	23.0	— 5.0	61	nw.	30	13.4		0	0			0	0	clear	**W. E. Smith.**
Cape Mendocino, California	29.35	745.5	30.05	763.3	43	6.1	68	nw.	40	17.9		0	0			0	0	clear	**J. J. McLean.**
Cedar Keys, Florida	30.40	772.1	30.42	772.7	32	0.0	60	n.	8	3.6		0	0			0	0	clear	**F. W. Mixer.**
Champaign, Illinois	29.39	746.5	30.26	768.6	15.5	— 9.2	66	s.	12	5.4			10 s		s.	0	0	cloudy	**L. A. Welsh.**
Charleston, S. Carolina	30.41	772.4	30.47	773.9	27	— 2.8	77	calm	0	0		3 cs	0			inap.	inap.	clear	**J. H. Smith.**
Charlotte, N. Carolina	29.55	750.6	30.44	773.2	17.0	— 8.3	67	nw.	1	0.4		0	sk.			0	0	clear	**D. O'Donoghue.**
Chattanooga, Tennessee	29.61	752.1	30.47	773.9	15.0	— 9.4	48	ne.	3	1.3		1 cs	0			0	0	clear	**B. L. Goulding.**
Cheyenne, Wyoming	23.51	597.1	29.76	755.9	33.1	0.6	33	w.	6	2.7		0	0			0	0	clear	**E. McGovern.**
Chicago, Illinois	29.49	749.0	30.24	768.1	12.5	—10.8	75	s.	8	3.6			10 s			0.05	1.3	cloudy	**J. Mitchell.**
Chincoteague, Virginia	30.37	771.4	30.39	771.9	16	— 8.9	83	nw.	25	11.2		0	0			0.01	0.3	clear	**C. F. Dickens.**
Cincinnati, Ohio	29.76	755.9	30.45	773.4	23	— 5.0	88	sw.	5	2.2			10 s		sw.	inap.	inap.	cloudy	**R. B. Watkins.**
Cleveland, Ohio	29.62	752.3	30.40	772.1	43	6.1	88	s.	5	2.2		4 cs	0			inap.	inap.	fair	**J. B. Newlin**
Coleman City, Texas	28.10	713.7	29.98	761.5	51	10.6	86	s.	13	5.8		0	0			0	0	clear	**L. Dorman.**
Columbus, Ohio	29.52	749.8	30.42	772.7	6	—14.4	72	nw.	1	0.4			10 s			0	0	cloudy	**D. Cuthbertson.**
Concho, Fort, Texas	27.93	709.4	29.95	760.7	50.0	10.0	80	s.	20	8.9		0	5 s			0	0	fair	**J. McGlone.**
Davenport, Iowa	29.34	745.2	30.06	763.5	19	— 7.2	53	s.	12	5.4		7 cs	0	w.		0	0	fair	**W. B. Lamar.**
Davis, Fort, Texas	25.09	637.3	30.07	763.8	39	3.9	76	calm	0	0		0	0			0	0	clear	**J. Williams.**
Dayton, Washington T'y	28.33	719.6	30.13	765.3	30	— 1.1	88	sw.	5	2.2		0	5 s		sw.	0.05	1.3	fair	**D. Moore.**
Deadwood, Dakota	24.80	629.9	29.74	755.4	30	— 1.1	92	n.	6	2.7			10 s			0	0	cloudy	**F. Wilson.**
Delaware Breakwater, Del	30.36	771.1	30.38	771.6	17	— 8.3	83	nw.	30	13.4		8 cs	1 s	nw.	nw.	inap.	inap.	cloudy	**T. S. Townsend.**
Denison, Texas	29.15	740.4	29.99	761.7	45.0	7.2	68	s.	12	5.4			10 s			0	0	cloudy	**J. W. Byram.**
Denver, Colorado	24.16	613.7	29.68	753.9	39.0	3.9	36	s.	8	3.6		0	0			0	0	clear	**F. M. Neal.**
Des Moines, Iowa	28.81	731 8	29.78	756.4	18	— 7.8	67	s.	13	5.8		0	0			0	0	clear	**F. W. Conrad.**
Detroit, Michigan	29.60	751.8	30.36	771.1	15.5	— 9.2	91	sw.	8	3.6		0	0			0	0	clear	**C. F. K. Wappenhans.**
Dodge City, Kansas	26.90	683 2	29.65	753.1	33	0.6	81	s.	21	9.4		0	5 s			0	0	fair	**V. P. Temple.**
Dubuque, Iowa	29.29	744.0	30.06	763.5	13.3	—10.4	70	se.	8	3.6		0	5 s		e.	0	0	fair	**J. Harvey Smith.**
Duluth, Minnesota	29.01	736.8	29.82	757.4	16.7	— 8.5	88	e.	13	5.8			10 s		e.	0	0	cloudy	**N. B. Conger.**
Eagle Pass, Texas	29.19	741.4	30.03	762.7	51.0	10.6	80	se.	2	0.9		0	5 s			0	0	fair	**F. Belford.**
Eagle Rock, Idaho	25.14	638.5	30.10	764.5	14	—10.0	70	sw.	16	7.2		0	0			0	0	clear	**J. M. Clifford.**
Eastport, Maine	29.94	760.5	30.02	762.5	— 1.0	—18.3	68	nw.	14	6.3		7 c	0	sw.		0	0	fair	**D. C. Murphy.**
Elliott, Fort, Texas	26.89	683 0	29.82	757.4	40	4.4	73	se.	16	7.2			10 s		se.	0	0	cloudy	**W. J. Cundall.**
El Paso, Texas	26.14	663.9	30.02	762.5	43.0	6.1	39	s.	8	3.6		0	4 s		s.	0	0	fair	**J. O'Bowd.**
Erie, Pennsylvania	29.59	751.6	30.36	771.1	16	— 8.9	83	sw.	8	3.6			10 s			0.05	1.3	cloudy	**Peter Wood.**
Escanaba, Michigan	29.45	748.0	30.17	766.3	14.0	—10.0	80	ne.	3	1.3			10 s		ne.	0	0	cloudy	**George Heathcote.**
Fredericksburg, Texas	28.24	717 3	30.06	763.5	53	11.7	93	sw.	16	7.2			10 s			0	0	cloudy	**Frank Halwegler.**
Galveston, Texas	30.08	764.0	30.13	765.3	58	14.4	86	se.	16	7.2		0	9 ks			0	0	threatening	**E. O'C. Machiernay.**
Grand Haven, Michigan	29.54	750.3	30.25	768.3	23.0	— 5.0	88	se.	16	7.2			10 s		s.	0.06	1.5	cloudy	**J. E. Mueller.**
Grant, Fort, Arizona	25.14	638 5	30.04	763.0	38	3.3	66	nw.	3	1.3		c	8 s			0	0	cloudy	**Robert C. Lord.**
Hatteras, North Carolina	30.40	772 1	30.42	772.7	25	— 3.9	64	nw.	14	6.3		0	3 k		ne.	0	0	clear	**R. M. Crawford.**
Helena, Montana	25.88	657.3	30.31	769.9	9	—12.8	100	sw.	11	4.9			10 s		calm	0.03	0.8	cloudy	**N. C. Smith.**
Henrietta, Texas																			**J. P. Sherry.**
Huron, Dakota	27.94	709.7	29.48	748.8	20.2	— 6.6	58	se.	15	6.7		0	5 s		se.	0	0	fair	**S. W. Glenn**
Indianapolis, Indiana	29.49	749.0	30.33	770.4	17	— 8.3	83	s.	8	3.6			10 s		s.	0	0	cloudy	**J. F. Jirdinston.**
Indianola, Texas	29.99	761.7	30.02	762.5	60.4	15.8	84	s.	10	4.5			10 s			0	0	cloudy	**I. A. Reed.**
Jacksboro, Texas	26.73	729 7	29.97	761.2	46	7.8	68	se.	13	5.8		0	0			0	0	clear	**D. J. Carr.**
Jacksonville, Florida	29.40	746.7	29.49	748.3	29	— 1.7	77	nw.	2	0.9		0	0			0	0	clear	**J. W. Smith.**
Keogh, Fort, Montana	27 19	690.6	29.88	758.9	16	— 8.9	83	nw.	30	13.4			10 s		nw.	0	0	cloudy	**A. Schneider.**
Keokuk, Iowa	29.30	744.2	30.00	762.0	19.0	— 7.2	84	se.	16	7.2		0	0			0	0	clear	**F. Z. Gosewisch.**

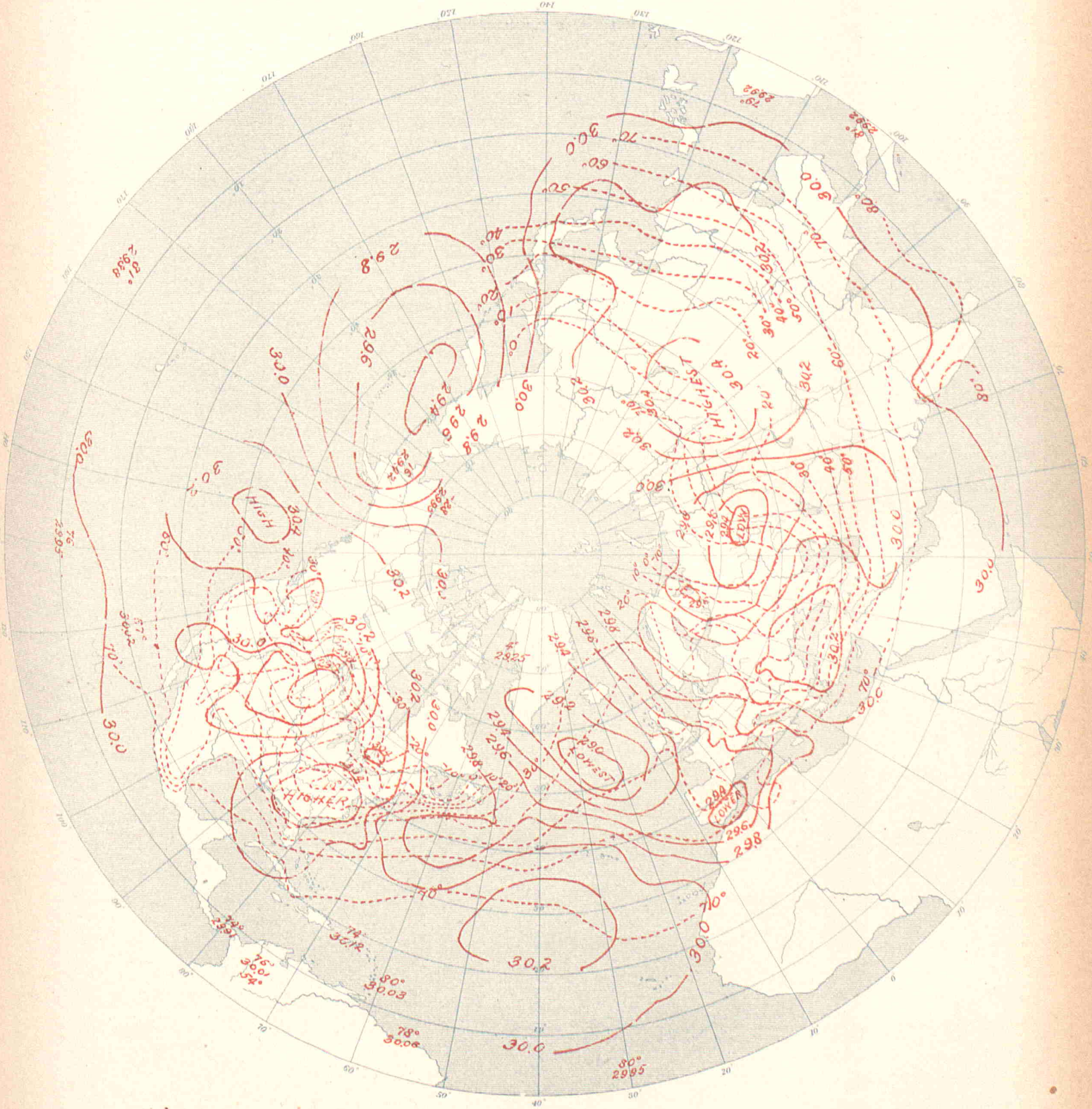
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Key West, Florida	30.26	768.6	30.28	769.1	56.0	13.3	74	n.	19	8.5			9 ks		n.	0	0	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.41	772.4	30.43	772.9	21.5	— 5.8	72	nw.	13	5.8		2 k	2 k	nw.	n.	0	0	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	29.38	746.2	30.46	773.7	3.8	—15.7	91	ne.	4	1.8		0	0			inap.	inap.	clear	J. A. Cody.
La Crosse, Wisconsin	29.08	738.6	29.92	760.0	15	— 9.4	83	s.	20	8.9			10 s			0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	28.85	732.8	29.81	757.2	31	— 0.6	68	s.	12	5.4		2 cs	0	sw.		0	0	clear	A. W. Browne.
Lewiston, Idaho	29.24	742.7	30.11	764.8	36.5	2.5	57	sw.	3	1.3		0	0			inap.	inap.	clear	W. Bell.
Little Rock, Arkansas	29.87	758.7	30.20	767.1	31	— 0.6	68	se.	4	1.8		5 k	0					fair	W. U. Simons.
Los Angeles, California	29.62	752.3	30.02	762.5	50	10.0	86	ne.	6	2.7			0 4		e.	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.82	757.4	30.41	772.4	24	— 4.4	73	s.	8	3.6			10 s			inap.	inap.	cloudy	L. M. Dey.
Lynchburg, Virginia	29.71	754.6	30.43	772.9	17	— 8.3	67	nw.	6	2.7		0	0			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.59	751.6	30.29	769.4	10.0	—12.2	67	s.	12	5.4			10 s			0.04	1.0	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.44	773.2	30.44	773.2	22.0	— 5.6	58	nw.	16	7.2		hz.	0			0	0	clear	William Daly.
Madison, Wisconsin	29.00	736.6	30.09	764.3	16	— 8.9	83	n.	12	5.4			10 s			inap.	inap.	cloudy	C. A. Shaw.
Maginnis, Fort, Montana					5	—15.0	79	nw.	50	22.4			10 n		nw.	0.06	1.5	heavy snow	F. Burke.
McKavett, Fort, Texas	27.68	703.1	30.07	763.8	51	10.6	86	s.	16	7.2			10 ks		s.	0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.36	745.7	30.14	765.5	14	—10.0	80	s.	14	6.3			10 s			0.06	1.5	cloudy	J. Gilligan.
Memphis, Tennessee	29.93	760.2	30.29	769.4	28	— 2.2	77	se.	12	5.4		0	0			0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.41	747.0	30.21	767.3	13	—10.6	80	s.	15	6.7			10 s			0.01	0.3	cloudy	W. Line.
Missoula, Fort, Montana	26.58	675.1	30.04	763.0	29	— 1.7	80	nw.	10	4.5			8 s		w.	0.03	0.8	threatening	J. H. Young.
Mobile, Alabama	30.36	771.1	30.40	772.1	34.6	1.4	56	e.	7	3.1		10 cs	0	w.		0	0	cloudy	C. A. Read.
Montgomery, Alabama	30.19	766.8	30.43	772.9	26	— 3.3	61	ne.	6	2.7		0	0			0	0	clear	J. B. McLauchlin
Moorhead, Minnesota	28.41	721.6	29.52	749.8	10	—12.2	100	s.	38	17.0			10 s		s.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.41	747.0	30.47	773.7	5.0	—15.0	76	sw.	1	0.4			10 s		sw.	0.10	2.5	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.17	588.5	29.80	756.9	—20.0	—28.9	45	nw.	78	34.8		0	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.79	756.7	30.40	772.1	12.5	—10.8	80	e.	5	2.2		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.12	765.0	30.24	768.1	5	—15.0	63	n.	8	3.6		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.18	766.6	30.23	767.8	7	—13.9	76	nw.	3	1.3		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.26	768.6	30.32	770.1	44.8	7.1	63	e.	8	3.6		2 cs	0	nw.		0	0	clear	L. Dunne.
Newport, Rhode Island	30.14	765.5	30.19	766.8	10.3	—12.1	72	nw.	14	6.3		1 cs	1 s			0	0	clear	W. McGillivray.
New York, New York	30.14	765.5	30.34	770.6	10	—12.2	58	n.	4	1.8		0	0			0.02	0.5	clear	J. B. Merrill.
Norfolk, Virginia	30.43	772.9	30.46	773.7	21	— 6.1	70	n.	8	3.6		0	0			inap.	inap.	clear	Wm. Davis.
North Platte, Nebraska	29.49	672.8	29.61	752.1	21.6	— 5.8	74	calm	0	0			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y.	30.19	766.8	30.23	767.8	30.0	— 1.1	88	calm	0	0		0	0			0.09	2.3	clear	J. Dascomb.
Omaha, Nebraska	28.42	721.9	29.09	754.1	22.7	— 5.2	74	s.	9	4.0		0	0			0	0	clear	A. Pollak.
Oogiaamie, Alaska	29.93	760.2	29.95	760.7	—28.2	—33.4		wnw.	2	0.0		0	0			0	0	clear	P. H. Ray
Oswego, New York	29.90	759.4	30.24	768.1	5.0	—15.0	76	ne.	10	4.5		3 cs	2 k	no.	ne.	0.02	0.5	fair	J. G. Linsley.
Palestine, Texas	29.53	750.0	30.11	764.8	48.0	8.9	71	se.	18	8.0		0	5 ks		sw.	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.39	771.9	30.42	772.7	35.2	1.8	56	n.	3	1.3		4 cs	0	w.		0	0	fair	M. McGauran.
Philadelphia, Pa.	30.25	768.3	30.36	771.1	15	— 9.4	67	nw.	8	3.6		0	0			inap.	inap.	clear	T. T. Townsend.
Pike's Peak, Colorado	17.28	438.9	29.98	761.5	8	—13.3	45	w.			9	0	0			0	0	clear	H. Hall.
Ploche, Nevada	23.84	605.5	30.04	763.0	24	— 4.4	67	w.	2	0.9		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.59	751.6	30.44	773.2	11.0	—11.7	89	sw.	6	2.7		0	0			inap.	inap.	clear	W. A. Reid.
Poplar River, Montana	27.62	701.5	29.97	761.2				nw.			7	0	8 s		nw.	0	0	cloudy	W. D. Maxwell.
Port Eads, Louisiana	30.31	769.9	30.32	770.1	51.2	10.7	69	e.	11	4.9		2 cs	0	w.		0	0	clear	H. B. Boyer.
Port Huron, Michigan	29.04	752.8	30.37	771.4	14.3	— 9.8	83	w.	1	0.4			10 s		w.	0	0	cloudy	W. O. Bailey.
Portland, Maine	30.09	764.3	30.14	765.5	11.5	—11.4	61	n.	2	0.9		hz.	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.18	766.6	30.25	768.3	38.0	3.3	86	s.	6	2.7			10 n			0.03	0.8	light rain	M. L. Hearne.
Portsmouth, N. C.					24	— 4.4	73	ne.			4	2 c	hz.	n.		inap.	inap.	clear	F. S. Coburn.
Prescott, Arizona	24.01	625.1	29.99	761.7	35.7	2.1	66	s.	2	0.9		0	1 ks		w.	0	0	clear	W. H. Clendenon.
Provincetown, Mass.	30.09	764.3	30.12	765.0	18	— 7.8	84	nw.	16	7.2			10 s		n.	0.09	2.3	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.33	770.4	30.34	770.6	41.5	5.3	57	ne.	14	6.3		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.72	754.9	30.10	764.5	30	— 1.1	100	calm	0	0		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.50	750.8	30.27	768.8	15	— 9.4	100	w.	20	8.9			10 n		w.	0.06	1.5	heavy snow	E. W. McGann
Roseburg, Oregon	29.76	755.9	30.33	770.4	30.5	— 0.8	94	s.	2	0.9			fg.			0.03	0.8	dense fog	J. J. Naury.
Sacramento, California	30.02	762.5	30.10	764.5	33.8	1.0	89	n.	5	2.2			fg.			0	0	dense fog	J. A. Barwick.
St. Louis, Missouri	29.55	750.6	30.19	766.8	17.1	— 8.3	85	se.	20	8.9		0	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.38	746.2	29.42	747.3	16	— 8.9	100	ne.			2		10 s			inap.	inap.	cloudy	A. P. Leavitt.
St. Paul, Minnesota	28.79	731.3	29.74	755.4	10.0	—12.2	80	se.	28	12.5		0	0 8		se.	0	0	fair	F. Lyons.
St. Vincent, Minnesota	28.56	725.4	29.54	750.3	9	—12.8	87	se.	13	5.8			10 s			0	0	cloudy	C. B Dilley.
Salt Lake City, Utah	25.56	649.2	30.13	765.3	27	— 2.8	56	calm	0	0			1 s			0	0	clear	J. Craig.
San Antonio, Texas	29.32	744.7	30.05	763.3	48.5	9.2	77	calm	0	0		4 cs	0			0	0	fair	T. J. Kenan.
San Diego, California	29.91	759.7	29.98	761.5	50.1	10.1	96	ne.	4	1.8		0	4 s		w.	0	0	fair	A. C. Dobbins.
Sandusky, Ohio	29.65	753.1	30.37	771.4	8	—13.3	76	sw.	15	6.7		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.30	769.6	30.33	770.4	12.0	—11.1	61	nw.	21	9.4		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	30.00	762.0	30.07	763.8	40	4.4	89	sw.	11	4.9			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	22.95	582.9	30.00	762.0	35	1.7	61	sw.	2	0.9			10 s			0	0	cloudy	H. U. Jones.
Savannah, Georgia	30.40	772.1	30.50	774.7	29	— 1.7	67	n.	6	2.7		1 c	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.43	671.3	30.29	769.4	14	—10.0	83	nw.	20	8.9			10 s			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.90	759.4	30.15	765.8	41	5.0	48	se.	8	3.6		0	9 s		se.	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.58	725.9	29.91	759.7	41.5	5.3	78	s.	16	7.2			10 s		s.	0	0	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.21	614.9	30.07	763.8	36.0	2.2	72	w.	2	0.9		hz.	4 s			0	0	fair	N. D. Lane.
Sitka, Alaska	30.14	765.5	30.21	767.3	31	— 0.6	78	e.	3	1.3			8 ks		e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.55	750.6	30.05	763.3	31.0	— 0.6	68	e.	10	4.5			10 s			0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.44	773.2	30.48	774.2	21	— 6.1	80	n.	5	2.2		1 c	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.94	709.7	30.08	764.0	28	— 2.2	74	w.	5	2.2		0	0			inap.	inap.	clear	H. Clifford.
Springfield, Illinois	29.40	748.3	30.20	767.1	18	— 7.8	74	se.	17	7.6		0	hz			0	0	clear	T. B. Jennings.
Springfield, Missouri	28.51	724.1	30.03	762.7	30	— 1.1	80	s.	18	8.0		0	0			0	0	clear	J. R. Bryce.
Starkville, Miss.	29.87	758.7	30.37	771.4	28	— 2.2	88	e.	11	4.9		0	1 s		e.	0	0	clear	C. Dill.
Stevenson, Fort, Dakota	27.53	699.2	29.59	751.6	19	— 7.2	87	nw.	30	13.4		0	8 s		nw.	0	0	cloudy	W. Burrows.
Stockton, Fort, Texas	26.82	681.2	29.90	761.0	51	10.6	33	sw.	10	4.5		0	8 s		sw.	0	0	cloudy	A. J. Warren.
Thatcher's Island, Mass.	30.17	766.3	30.23	767.8	10.0	—12.2	80	nw.	15	6.7		0	0			0	0	clear	G. Liebmann.
Thomas, Camp, Arizona	27.15	689.6	29.98	761.5	40.5	4.7	91	calm			0		9 s			0	0	cloudy	J. T. Fitzgerald.
Toledo, Ohio	29.62	752.3	30.36	771.1	8	—13.3	76	sw.	6	2.7			10 s		sw.	0	0	cloudy	A. Buell.
Tucson, Arizona	27.49	698.2	29.99	761.7	49	9.4	71	se.	3	1.3			9 ks			0	0	cloudy	J. L. Whiteside
Umatilla, Oregon	29.82	757.3	30.21	767.3	36	2.2	79	nw.	4	1.8			0			inap.	inap.	clear	J. Daly.
Verde, Fort, Arizona					35.5	1.9	56	w.			1	2 cs	3 s	s.	w.	0	0	fair	D. Brooks.
Vicksburg, Mississippi	30.02	762.5	30.29	769.4	33.5	0.8	55	se.	14	6.3		2 cs	0			0	0	clear	James Kenealy.
Visalia, California	29.67	753.6	30.06	763.5	31.9	— 0.1	95	nw.	2	0.9			fg.			0	0	dense fog	O. D. Stewart
Washakie, Fort, Wyoming	23.96	608.6	29.75	755.0	24.5	— 4.2	68	w.	16	7.2		0	1 k			0	0	clear	T. M. Ambler.
Washington, D. C.	30.34	770.6	30.40	772.7	13.0	—10.6	89	n.	1	0.4		0	0			0.01	0.3	clear	B. M. Purssell.
West Las Animas, Colorado	25.48	647.2	29.02	752.3	39	3.9	82	sw.	6	2.7			10 s			0	0	threatening	F. H. Brandenburg.
Williamsport, Pa.	29.72	754.9	30.35	770.9	12	—11.1	61	w.	4	1.8		0	2 k		w.	inap.	inap.	clear	B. F. Hough.
Wilmington, N. Carolina	30.44	773.2	30.50	774.7	24	— 4.4	88	nw.	5	2.2		6 c	0			0	0	fair	Samuel A. Haney.
Winnemucca, Nevada	25.64	651.2	30.18	766.0	24	— 4.4	70	n.	6	2.7		0	3 s		sw.	0	0	clear	J. Grover.
Yankton, Dakota	28.11	714.0	29.53	750.0	24	— 4.4	48	s.	3	1.3		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.74	755.4	29.89	759.2	40.5	8.1	64	calm	0	0			1 s			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			54.0	12.2	82	w.	3	1.3		6 ck	3 s	ne.	ne.	0.03	10.0	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.09	764.3	30.10	764.5	71	21.7	88	n.	2	0.9		0	10 s			0	0	cloudy	Robert Johnston.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	78	25.0	82	se.			3	6 k	8 ks	0	e.	0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. Colombia	29.45	748.0	30.01	762.2	76	24.4	89	calm			0	5 ck	4 s	sw.	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.																			Earl Flint.
St. Paul, Kodiak Id., Alaska	29.53	750.0	29.59	751.6	30	2.2	79	se.			3		8 ks			0.43	10.9	cloudy	W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallon.
York Factory, B. A.	30.19	766.8	30.26	768.6	—33.0	—36.1		sw.	8	3.6		0	0			0	0	clear	Forbes Rae & Wood

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
BRITISH NAVAL.																		
H. M. S. Amethyst, S. 43° 03′ W. 62° 38′ †	29.93	760.2	62	16.7	94	nw.			7		9	w.				4	nw.	misty.
H. M. S. Audacious, Manila, Luzon, Philippine Ids	29.92	760.0	80	26.7	86	e.			1		1	ne.						blue sky.
H. M. S. Boadicea, S 29° 36′, E. 11° 47′	30.17	766.3				sse.			5		4					6	s.	d. clouds.
H. M. S. Carysfort, N. 35° 05′, E. 19° 30′	30.00	762.0	65	18.3	94	ese.			2		8	wnw.				3	nnw.	squally.
H. M. S. Champion, Singapore, Malay peninsula	29.92	760.0	81	27.2	95	nne.			2		1					1	ne.	blue sky
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.17	766.3	46	7.8	92	calm			0		0							blue sky.
H. M. S. Comus, N. 19° 13′, W. 108° 08′	30.04	763.0	71	21.7	85	calm			0		0					1	ne.	blue sky.
H. M. S. Constance, N. 5° 24′, W. 27° 21′	29.92	760.0	80	26.7		nne.			3		2	nne.				2	nne.	blue sky.
H. M. S. Curacoa, Yokohama, Japan	29.74	755.4	45.5	7.5	54	n.			1–2		0							blue sky.
H. M. Dock-Yard, Bermuda, W. I	29.74	755.4	65	18.3	78	se.			5		8					sm'h		overcast.
H. M. S. Dryad, N. 11° 50′, E., 88° 20′	29.93	760.2	63	17.2	67	wnw.			4–5		7	wnw.						d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.95	760.7	80	26.7		ne.			4–5		4	ne.				6	ne.	d. clouds.
H. M. S. Fawn, S. 32° 00′ E. 15° 30′	29.93	760.2	80	26.7	78	ne.			3		3	ne.						d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.08	764.0	64	17.8	75	se.			4		3					3	sse.	d. clouds.
H. M. S. Fox Hound, Labuan Island, Borneo	30.28	769.1	48	8.9	85	ne.			0–1		6							d. clouds.
H. M. S. Gannet, S. 30° 42′, W. 73° 06′	29.92	760.0	78.5	25.8		calm			0		4							showery.
H. M. S. Hecate, S. 4° 42′, W. 28° 26′	29.94	760.5	64	17.8	83	calm			0		0							blue sky
H. M. S. Iron Duke, N. 12° 50 E. 55° 20′.	29.91	759.7	79	26.1	86	se.			3		3	ese.				sm'h		d. clouds.
H. M. S. Kingfisher, Callao Bay, Peru	30.00	762.0	78	25.6	86	nne.			4–5		2	n.				4	nne.	blue sky.
H. M. S. Lark. S. 34° 25′, E. 172° 13′	30.01	762.2	67	19.4		calm			0		10							foggy.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	29.99	761.7	65.3	18.5	92	sse			2		8					1	s.	d. clouds.
H. M. S. Monarch Port Said, Egypt	30.29	769.4	43.6	6.4	66	w.			1		0					1	se.	misty
H. M. S. Mutine, S. 0° 45′, W. 115° 56′	30.11	764.8	71	21.7	67	calm			0		0							blue sky.
H. M. S Rocket, Valdivia, Chili	29.95	760.7	72.5	22.5		sse.			4		4					2	sse.	d. clouds.
H. M. S. Serapis, Bombay, India	30.00	762.0	71	21.7	95	calm			0		3							d. clouds.
H. M. S Superb, N. 35° 51′ E. 30° 05′*	29.98	761.5	80	26.7	70	nw.			1		6							misty.
H. M. S. Swiftsure, S. 9° 06′, W. 78° 41′	30.06	763.5	65	18.3	68	wnw			3		2	nnw.				2	uw.	blue sky.
H. M. S. Sylvia, Point Angosto	29.99	761.7	66	18.9	94	calm			0		8					2	s.	foggy.
H. M. S. Tourmaline, Bombay, India	30.03	762.7	44.2	6.8	79	w.			2		9							d. clouds
H. M. S. Zephyr, N. 31° 21′ E. 121° 31′	29.95	760.7				w.			2		0							blue sky.
PORTUGUESE NAVAL.	30.22	767.6	46	7.8	92	calm			0		0					sm'h		blue sky.
Tamega, Macao, China	30.17	766.2	65.3	18.5	85	calm			0		10			0	0			overcast.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla*	30.38	771.6	39	3.9	56	ne.	9	4.0			5		ne.	0	0			fair.
Navy Yard, Portsmouth, N. H*	30.14	765.5	7	—13.9	?	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.91	759.7	39.5	4.2	47	calm			0		0			0	0			clear.
Adams, Sitka, Alaska†	30.19	766.8	32	0.0	90	calm			0		10							cloudy.
Alaska, Mare Island, Cal	29.98	761.5	36	2.2	90	sse.			2		10		se.	0	0			foggy.
Alliance, Santiago de Cuba, Cuba, W. I	30.16	766.1	68	20.0	84	nnw.			1		8			light	light	sm'h		cloudy.
Ashuelot, Shanghai, China	30.21	767.3	46	7.8	100	calm			0		10		calm			sm'h		raining.
Brooklyn, Keel Point, Patagonia*	29.96	761.0	51	10.6	78	ssw.	45	20.1			0			0	0	sm'h		clear.
Colorado, New York, N. Y	30.32	770.1	11	—11.7	100	nw.	6	2.7			10			0	0			overcast.
Enterprise, N. 38° 42′, W. 57° 20′ *	29.51	749.5	65	18.3	94	sw.			8		8		sw.			r'gh	sw.	cloudy.
Essex, Callao, Peru	29.95	760.7	68	20.0	90	w.			1		10							foggy.
Franklin, Norfolk, Va	30.44	773.2	21	— 6.1	?	nnw.	15	6.7			1		calm	0.25	6.3			clear.
Galena, Montevideo, Uruguay*	29.96	761.0	68	20.0	90	e.			4		10		e.			mod.		overcast.
Hartford, S. 21° 44′ W. 76° 09′*	30.03	762.7	69	20.6	79	ese.			3		8		ese.			sm'h	s.	fair.
Independence, Mare Island, Cal	30.14	765.5	33	0.6	100	calm			0		10			0	0			cloudy.
Iroquois, Callao, Peru	30.01	762.2	67	19.4	94	calm			0		10							foggy.
Jamestown, Boston, Mass	30.16	766.1	9	—12.8	100	nw.			2		2							clear.
Juniata, Gibraltar, Mediterranean*	29.25	742.9	58	14.4	100	nne.			4		10		ne.	h'vy	h'vy	sm'h		cloudy.
Kearsarge, Port of Spain, Trinidad, W. I	30.03	762.7	79	26.1	86	ne.			1		2		e.			sm'h		fair.
Lackawanna, N. 11° 06′, W. 131° 09 *	29.95	760.7	76	24.4	81	nne.			4		10		ne.			sm'h	ne.	cloudy.
Lancaster, Genoa, Italy	29.81	757.2	39	3.9	100	n.			6		10		n.					light rain.
Michigan, Erie, Pa	30.29	769.4	23	— 5.0	60	s.			3		2		s.					fair.
Minnesota, New York, N. Y	30.33	770.4	10	—12.2	100	nnw.	4	1.8			0							misty.
Monocacy, Nagasaki, Japan	30.29	769.4	48	8.9	77	nne.			1		2		sw.					fair.
New Hampshire, Newport, R. I	30.17	766.3	12	—11.1	100	nnw.			5		2		calm			mod.	nw.	fair.
Nipsic, Lisbon, Portugal	29.55	750.6	56	13.3	68	n.			3		2							clear.
Onward, Callao, Peru*†	30.10	764.5	66	18.9	100	calm			0		10							foggy.
Palos, Tientsin, China*	30.18	766.6	28	— 2.2	100	se.			1		5		calm					fair.
Pensacola, Panama, U. S. C*	29.91	759.7	74	23.3	90	nw.	5	2.2			5		nnw.	light	light	sm'h		fair.
Portsmouth, Boston, Mass	30.18	766.6	8	—13.3	?	nnw.			2		2							fair.
Powhatan, Boston, Mass	30.16	766.1	6	—14.4	76	nw.			1		2							fair.
Quinnebaug, Genoa, Italy	29.84	757.9	39	3.9	81	nne.			5		10		calm					rainy.
Ranger, N. 21° 17′, W. 119° 28′*	30.02	762.5	67	19.4	68	nne.			2		0							clear.
Richmond, Hong-Kong, China*	30.12	765.0	62	16.7	88	e.			3		10		e.	0	0	sm'h		cloudy.
Saratoga, New York, N. Y	30.29	769.4	10	—12.3	79	n.			5		0			0	0			clear.
St. Louis, League Island, Pa	30.33	770.4	8	—13.3	78	nw.			2		0			0	0			clear.
Tennessee, Basse-Terre, St. Kitts, W. I*	30.09	764.3	83	28.3	87	ne.	8	3.6			2			hv'y	h'vy	sm'h		fair.
Vandalia, Samana Bay, San Domingo, W. I*	30.11	764.8	75	23.9	95	nne.			1		5		calm					fair.
Wabash, Boston, Mass	30.19	766.8	6	—14.4	29	nw.	5	2.2			2			0	0			clear.
Wachusetts, Mare Island, Cal	30.15	765.8	35	1.7	100	e.			2		0							foggy.
Wyandotte, Washington, D. C	30.55	776.0	30	— 1.1	100	nw.			1		5		nw.	0	0			fair.
Yantic, N. 10° 04′, W. 79° 20′	30.09	764.3	78	25.6	95	ne.			3		5					long	n.	fair.
MERCHANT MARINE.																		
S. S. Grecian, Liverpool, Eng*	29.52	749.8	46	7.8	100	se.			4		10			2 h'r	2 h'r			hazy.
S. S. Nova Scotian, off Cape Sable, N.S	29.90	759 4	20	— 6.7		n.			4		10		nnw.			slt	nw.	cloudy.
S. S. Polynesian, Portland, Maine*	30.06	763 5	— 1	—18.3		n.			3		5?		nw.	0	0			clear.?
S. S. Scandinavian, N. 55° 23′, W. 7° 45′	29.47	748.5	42	5.6		ese.			6		7		sse.	sh'rs	sh'rs	mod.	ese.	misty.
S. S. British Crown, N. 50° 40′, W. 15° 10′†	29.10	739.1	47	8.3		wsw.			3		10		sw.	0	0	mod.	wsw.	overcast.
S. S. Indiana, Liverpool, Eng			42	5.6	83	se.			3		10		se.					raining.
S. S. Lord Clive, N. 45° 48′ W. 49° 48′						nw.			2		10			0	0	mod.	sw.	cloudy.
S. S. Lord Gough, N. 51° 24′, W. 20° 02′	28 82	732.0	47	8.3		nw.			5		8		nw.	14 h'r	14 h'r	cross	sw.	threatening.
S. S. Ohio, Philadelphia, Pa			28	— 2.2	88	n			4		5		nnw.					fair.
S. S. Pennsylvania, N. 50° 15′, W. 34° 25 †	29.35	745.5	43	6.1	91	w.			7		4		wnw.	0	0	h'vy	nw.	squally.
S. S. Stella, N. 50° 13′, W. 30° 19′			35.6	2.0		nw.			6		8 n					6	n	gloomy.
S. S. Bolivia, N. 54° 07′, W. 18° 30′	29.30	744.2	41	5.0		nw.			8		7		nw.	2 h'r	2 h'r	8	nw.	squally.
S. S. Dorian, Leghorn, Italy	29.09	738.9	47	8.3	70	e.			3		8		ese.	shr's	sh'rs	long	e.	cloudy.
S. S. Antillas, N. 17° 20′, W. 68° 50′†						e.			5					0	0			
S. S. Ambrose, Amazon River, Brazil†	30.15	765.8				se.			1		1		se.			sm'h		
S. S. Auckland, S. 54° 57′, W. 57° 27′	29.98	761.5	82	27.8										2 h'r	2 h'r			fine.
S. S. Caldew, S. 24° 29′, E. 65° 40′	29.37	746.0	43	6.1	83	sw.			5		7							squally.
S. S. City of Agra, S. 50° 30′, W. 52° 15′	30.00	762.0	78.5	25.8	73	ene.			4		10							overcast.
S. S Gordon Castle, N. 37° 35′, E. 6° 34′	29.58	751.3	45	7.2	92	wsw.			5		9							d. clouds.
Inchkeith, N. 17° 48′, E. 85° 24′	29.49	749 0	61.5	16.4	88	se.			4		10							overcast.
St. Kilda, N. 33° 30′, W. 50° 00′	30.05	763.3	75.8	24.3	72	ne.			4		2							d. clouds.
S. S. Scotia, N. 34° 59′, E. 18° 54′	30.12	765.0	69.3	20.7	90	sw.			6–7		5							raining.
S. S. Lake Huron, Liverpool, Eng*	29.94	760.5	64.2	17.9	83	se.			4		7							d. clouds.
S. S. Mexico, Mazatlan, Mexico†	29.37	746.0	42	5.6		e.			2		10		e.	0	0	sm'h		dull.
S. S. Gallia, N. 40° 51′, W. 61° 53′	30.12	765.0	71	21.7	80	e.			1		2		e.					
S. S. Marathon, N. 44° 19′ W. 47° 15′	29.73	755 1	41	5.0	91	nne.			7		10			rain	rain	high	nne.	dense mist.
	29.96	761.0	37	2.8		nw.			3		8		wsw.	0	0	high	sw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
MERCHANT MARINE.—Continued.																		
S. S. Parthia, N. 48° 36′, W. 32° 43′	29.50	749.3	45	7.2	92	wnw.			9		3		w.	2 h'r	2 h'r	r'gh	w.	squally.
S. S. Pavonia, N. 40° 26′, W. 71° 40′	30.07	763.8	27	— 2.8	67	nnw.			5		0			2 h'r	2 h'r	sm'h	s.	clear.
S. S. Colina, N. 37° 38′, W. 74° 21′						nw.			6		4		nnw.			cross	nnw.	clear.
S. S. Canada, N. 46° 44′, W. 44° 45′	29.69	754.1	30	— 1.1		nw.			3	clk	0	nw.		0	0	sm'h	w.	covered.
S. S. Labradore, N. 49° 39′, W. 25° 00′	28.94	735.1	46.4	8.0		sw.			6		7		sw.	hail	hail	h'vy	w.	cloudy.
S. S. Perire, N. 40° 34′, W. 64° 08′	29.76	755.8	41.0	5		nnw.			6		8		nnw.	snow	snow	sm'h	w.	cloudy
S. S. Ville de Marseilles, N. 39° 50′, W. 17° 45′*†	29.55	750.6	57	13.9		w.			6		6		w.	0	0	long	nw.	hazy.
S. S. Abyssinia, N. 41° 40′, W. 66° 23′	29.73	755.1	41	5.0	91	nne.			6		10		nne.	snow	snow	mod.	var.	snowing.
S. S. Arizona, N. 44° 02′ W. 55° 05′	29.81	757.2	30	— 1.1		ene.			3		10		ene.	snow	snow	long	wsw.	light snow.
S. S. Wisconsin, N. 49° 40′ W. 34° 40′	29.36	745.7	44	6.7		wnw.			7		8		wnw.	8 h'r	8 h'r	r'gh	wnw.	squally
S. S. Wyoming, N. 52° 26′, W. 5° 55′			46	7.8		se.			4		9		sse.	6 h'r	6 h'r	long	sw.	threatening.
S. S. Bohemia, Hamburg, Germany *†	29.98	761.5				e.			3		1			0	0			fair.
S. S. Rugia, N. 46° 18′, W. 41° 47′			43	6.1		wnw.			6		10		wnw.	0	0	7	wsw.	raining.
S. S. Silesia, N. 49° 26′, W. 25° 07′†	28.99	736.3	50.0	10.0		wsw.			9		27		w.	0	0	7-8	wsw.	cloudy.?
S. S. Vandalia, Hamburg, Germany	29.94	760.5	26.2	—3.2		ene.			4		0							fair.
S. S. Wieland, N. 42° 04′, W. 63° 43′	29.93	760.2				n.			5		8		nne.	rain	rain	r'gh	n.	squally.
S. S. Mentmore, N. 40° 06′, W. 66° 34′*	29.97	761.2				nw.			6		10		nw.	sq'lls	sq'lls	high	nw.	squally.
S. S. Archimedes, S. 15° 21′ W. 38° 34′	29.86	758.4				ene.			3–4		4		s.	½ h'r	½ h'r	mod.	se.	fine.
S. S. Hevelius, N. 43° —′, W. 11° 30′†	29.64	752.8	54	12.2		w.			5		9?		wsw.	0	0	long	wnw.	clear?
S. S. Ptolemy, N. 25° 13′, W. 21° 09′	30.12	765.0	68.5	20.3	82	n.			6	clck	6 k	w.		0	0		nw.	d. clouds.
S. S. Sirius, N. 13° 30′. W. 52° 10′*	30.04	763.0				ene.			4		1		ene	0	0	mod.	ne.	clear.
S. S. Colorado, New York, N. Y†	30.32	770.1	15	— 9.4		nw.			3		1		nw.	0	0			fair.
S. S. Rio Grande, N. 37° 43′, W. 74° 30′†	30.38	771.6	26	— 3.3		nnw.			6		3		nnw.	0	0	irreg.	nnw.	d. clouds.
S. S. San Marcos, N. 34° 50′, W. 76° 00′	30.45	773.4	33	0.6		nnw.			5		7		nnw.			h'vy	nnw.	
S. S. Archimede, N. 41° 10′ E. 9° 00′†	29.62	752.3	62	16.7	72	se.			3		3		s.	6 h'r	6 h'r	r'gh	var.	fair.
S. S. Hermod, N. 44° 07′, W. 51° 04′†	29.68	753.9	33	0.6		ne.			1		10		e.	snow	snow	long	sw.	hazy.
S. S. Alleghany, N. 41° 25′, W. 70° 26′†	30.18	760.6	20	—6.7		nnw.			7		4		nw.	0	0			fair.
S. S. Glenfyne, N. 34° 50′. W. 70° 02′						nw.			8		10		nnw.			h'vy	nnw.	light rain.
S. S. Brooklyn, N. 43° 09′, W. 66° 11′ *	29.97	761.2	19	— 7.2		wnw.			5				nw.	3 h'r	3 h'r		nw.	cloudy.
S. S. Dominion, N. 48° 10, W. 45° 43′*†	29.80	756.9	31	—0.6		wsw.			3		8		w.	12 h'r	12 h'r	sm'h	sw	snowy.
S. S. Chalmette, N. 26° 55′ W. 86° 20′†	30.28	769.1	59	15.0		nne.			5		2		ne.	0	0	sm'h	ne.	clear.
S. S. Lone Star, N. 34° 10′, W. 76° 40′†	30.27	768.8	29	—1.7		n.			4		2			0	0	mod.	var.	clear.
S. S. New York, N. 31° 30′ W. 78° 50′†	30.43	772.9	42	5.6		nne.			6		10		nne.	0	0	rg'h	ne.	cloudy.
S. S. Denmark, N. 40° 29′, W. 67° 21′ †	29.86	758.4	32	0.0		ne.			3		8		e.	snow	snow	long	e.	cloudy
S. S. England, Liverpool, Eng	29.55	750.6				ese.			5		10		ese.	0	0			hazy.
S. S. Erin, Liverpool, Eng*†	29.41	747.0	41	5.0		s.			4		10			0	0			overcast.
S. S. Greece, N. 46° 29′, W. 47° 20′	29.76	755.9	32	0.0		wnw.			3		10		calm	3 h'r	3 h'r	h'vy	sw.	dull.
S. S. Helvetia, N. 46° 00′, W. 42° 00′	29.77	756.1	47	8.3		n.			4		10		nw.	0	0	long	w.	cloudy.
S. S. Holland, N. 49° 43′, W. 6° 43′	29.29	744.0	49	9.4		se.			4		2		se.	0	0	sm'h	se.	fine.
S. S. Santiago, Cienfuegos, Cuba, W. I	30.28	769.1	74	23.3	95	ne.			4		5		n.	0	0	sm'h		fine.
S. S. City of Alexandria, Havana, Cuba, W. I†	30.24	768.1	65	18.3	89	nne.			6		3		nne.	0	0	mod.	ne.	fair.
S. S. City of Merida, N. 22° 43′, W. 85° 24′†	30.25	768.3	73.4	23.0		ne.			3		2?		ne.	0	0	mod.	ne.	cloudy.?
S. S. City of Washington, Vera Cruz, Mexico†	30.13	765.3	75	23.9		se.			4		2		se.	0	0	mod	e.	fine.
S. S. America, off Dungeness, Eng *	29.56	750.8	41.0	5.0	91	se.			3		10			0	0	sm'h	se.	overcast.
S. S. Braunschweig, Buenos Ayres, Argentine Rep	29.89	759.2	70.0	21.1	85	ene.			6		10		e.			mod.	e.	rainy.
S. S. Hohenstaufen, S. 30° 59′ W. 48° 42′	29.72	754.9	77.0	25.0		ne.			3		9		ne.	3 h'r	3 h'r		sw.	
S. S. Main, N. 49° 48′, W. 13° 32′	29.33	745.0	48	8.9		wsw.			3–4		9		sw.	2 h'r	2 h'r	sm'h	sw.	fine.
S. S. Neckar, N. 42° 12′, W. 60° 10′	29.74	755.4	24.0	— 4.4	100	n.			6		10		n.	3 h'r	3 h'r	mod.	n.	cloudy
S. S. Oder, N. 48° 26′ W. 37° 50′	29.63	752.0	45.5	7.5		nw.			5–6		0		nnw.	rain	rain	high	var.	squally.
S. S. Sailer, Brouwershaven, Netherlands*†	30.00	762.0				e.			4		0			0	0			clear.
S. S. Strassburg, N. 2° 13′ W. 30° 22′	29.95	760.7	80.0	26.7	91	e.			2–3		7		e.	1 h'r	1 h'r	mod.	e.	cloudy.
S. S. Belgic, N. 34° 55′, E. 171° 30′*†	29.68	753.9	66	18.9	84	sew.			7		3		sw.	0	0	h'vy	sw.	fair.
S. S. Gaelic, N. 34° 11′, E. 142° 13′	29.98	761.5	55	12.8	93	nw.			6		3		wnw.	1 h'r	1 h'r		w	fair.
S. S. Oceanic, N. 44° 05′, W. 139° 43′ *	30.47	773.9	45	7.2	92	sse.			3		5		s.			sm'h		fine.
S. S. City of Augusta, New York, N.Y†	30.19	766.8				nnw.			3		4		n.	0	0			clear.
S. S. Willamette, N. 44° 28′, W. 124° 38′†	30.36	771.1	44	6.7	92	n.			5		5		n.	0	0	long	w.	squally.
S. S. Columbia, N. 42° 38′, W. 124° 40′ †	30.27	768.8	45	7.2	68	ene.			4		1					mod.	nw.	clear.
S. S. Oregon, Portland, Oregon†	30.17	766.3	37	2.8	90	calm			0		8		sw.					drizzling.
S. S. Ancon, San Francisco, Cal†	29.98	761.5	41	5.0	91	n.			3		10		ne.					cloudy.
S. S. City of Chester, Hookton, Cal *†	30.15	765.8	42	5.6	83	nw.			2		0							clear.
S. S. Dakotu, N. 44° 35′, W. 124° 18′*†	30.10	764.5	45	7.2	84	n.			3		5?		w.	0	0	mod.	nw.	clear?
S. S. G. W. Elder, N. 43° 12′, W. 124° 40′ †	30.35	770.9	44	6.7	84	se.			3		2			0	0	h'vy	w.	fair.
S. S. Orizaba, N. 33° 43′, W. 118° 15′ *†	29.86	758.4	56	13.3	81	se.			2				se.	0	0	long	sw.	cloudy.
S. S. Queen of the Pacific, N. 45° 47′, W. 124° 06′†	30.25	768.3				nw.			3		2						w.	hazy.
S. S. State of California, San Francisco, Cal †	30.00	763.5	40	4.4	100	nnw.			2		3		w	0	0			fair.
S. S. Victoria, San Francisco, Cal	30.18	766.6	42	5.6		ene.			3		5		ene					fair.
S. S. City of New York, N. 6° 13′, W. 163° 42′ †	29.88	758.9	81	27.2	78	nne.			3		10		n.	1 h'r	1 h'r	mod.	nne.	squally.
S. S. City of Pekin, N. 35° 06′ W. 126° 54′†	30.20	767.1	53	11.7	48	n.			5		10		n.			sm'h	n.	cloudy.
S. S. City of Sydney, S. 33° 38′ E. 157° 39′†	30.13	765.3	69	20.6	75	s.			3		2		sw.	0	0	mod	sw.	fair.
S. S. City of Tokei, Hong Kong, China†	30.22	767.6	61	16.1	77	ne.			2		5?		ne.	0	0	small	ne.	clear.?
S. S. Colima, N. 17° 24′, W. 101° 27′ †	30.15	765.8	75	23.9	90	nnw.			3		0			0	0	mod.	wsw.	clear.
S. S. Colon, N. 34° 47′, W. 73° 47′ †*	30.08	766.6	44	6.7		wnw.			6		8		wnw.	snow	snow	mod.	nw.	cloudy.
S. S. Grenada, Champerico, Mexico *	30.00	762.0	70	24.4	91	ne.			1		2		ne.	0	0	sm'h		clear.
S. S. San José, N. 8° 54′, W. 99° 30′*†	29.96	761.0				nw.			2		2 k		nw.	0	0	light	nw.	
S. S. Zealandia, Sydney, N. S. W*	29.94	760.5	70	24.4	86	calm			0		8		s.					showery.
S. S. Muriel, St. Lucia, W. I*	30.06	763.5	79	26.1		e.			4		0			0	0	sta'h		fair.
S. S. Caracas, Curacon, W. I †	30.03	762.7	78	25.6	91	ene.			3		8		e.	1 h'r	1 h'r			showery.
S. S. Claudius, N. 28° 10′, W. 73° 20′ †	30.06	763.5				w.			0		6		n.	0	0	mod.	w.nw	clearing.
S. S. Valencia, N. 34° 47′, W. 72° 06′ †	30.21	767.3	47	8.3	70	nnw.			8		9		nnw.	5 h'r	5 h'r	h'vy	nnw.	rain & snow
S. S. Belgenland, Antwerp, Belgium†	29.65	753.1	39	3.9	82	ese.			3		10							sprinkling.
S. S. Pennland, N. 49° 09′, W. 36° 44′	29.61	752.1	42	5.6	?	nw.			6		6		wnw.	4 h'r	4 h'r	h'vy	wnw.	fine.
S. S. Rhynland, N. 41° 20′, W 64° 00′			29	—1.7	100	n.			7		8		n.	0	0	high	nnw.	snowy.
S. S. Switzerland, N. 51° 05′, E. 1° 04′†	29.58	751.3				e.			2		10		e.	0	0	sm'h		misty.
S. S. Waesland, N. 48° 03′ W. 40° 30′			39	3.9		wnw.			6		8		w.	snow	snow	mod.	w.	cloudy.
S. S. Maas, N. 46° 34′, W. 27° 30′	29.41	747.0	54.5	12.5		w.			7		3		se.	0	0	6-7	w.	squally.
S. S. Schiedam, N. 43° 55′, W. 49° 34′	29.81	757.2	47.5	8.6	89	ese.			3		9		ne.	0	0	long	w.	cloudy.
S. S. W. A. Scholten, N. 40° 25′, W. 73° 17′			25.0	— 3.9	89	nnw.			6		0			0	0	sm'h		fair.
S. S. State of Florida, N. 48° 10′, W. 41° 21 ′	29.62	752.3	41	5.0		w.			6		5?		w.	4 h'r	4 h'r	mod.	w.	overcast.?
S. S. State of Indiana, N. 52° 03′, W. 29° 17′†	28.84	732.5	45	7.2		n.			7		8		ne.	10 h'r	10 h'r	r'gh	var.	squally.
S. S. Iowa, N. 45° 29′, W. 42° 40′*†	29.96	761.0	44	6.7		nw.			4		6		nw.	1 h'r	1 h'r	long	wnw.	fair.
S. S. Plantyn, N. 44° 03′, W. 44° 52′	29.81	757.2							5		4		n.	0	0	mod.	w.	cloudy.
S. S. Adriatic, N. 40° 19′, W. 71° 01′†	30.11	764.8	21	— 6.1		nnw.			6		1		n.	0	0	mod.	nnw.	clear.
S. S. Britannic, N. 47° 50′, W. 31° 25′ †	29.53	750.0	49	9.4	93	wsw.			7		5		w.	4 h'r	4 h'r	high	w.	fair.
S. S. Germanic, N. 42° 16′, W. 62° 16′†	29.80	756.9	35	1.7		n.			4		9		n.	snow	snow	sm'h	nw.	d. clouds.
S. S. Lepanto, N. 42° 08′, W. 54° 10′*	29.75	755.6	41	5.0		ene.			6		10		ne.	12 h'r	12 h'r	h'vy	ne.	rainy.
S. S. Mitrengo, N. 50° 42′, E. 0° 28′*	29.40	749.7				se.			6		4?		e.	0	0	mod.	se.	cloudy.?
S. S. Otranto, N. 50° 21′, W. 8° 44′			53	11.7		ese.			3		8		ese.			long	w.	cloudy.
S. S. Romano, N. 44° 19′, W. 50° 24′*†	29.78	756.4	33	0.6		ene.			2		10		wnw.	snow	snow	long	sw.	cloudy.
S. S. Salerno, N. 41° 03′, W., 68° 29′	30.03	762.7	32	0.0		nne.			5		8		nnw.	1 h'r	1 h'r	r'gh	ne.	snowing.
S. S. Catherine Whiting, Montauk, L. I †	30.27	768.8				nnw.			5					0	0	high	ene.	
S. S. Norman, N. 40° 38′, W. 73° 30′ †	30.49	774.4				nnw.			1					0	0	sm'h		clear.
S. S. Saxon, Philadelphia, Pa†	30.33	770.4	15	—9.4		nw.			2		0			0	0			clear.
MISCELLANEOUS																		
Schr. Abbie H Gheen, Spring Wood Mills, S. C†	30.56	776.2	30	— 1.1		nne.			6					0	0			

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper 0–10	Lower 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Bk. Adelaide, S. 8° 14′, W. 34 13′*†	29.97	761.2	83	28.3	.....	ese.	.....	.....	5	.....	4	.....	se.	0	0	short	ese.	rainy.
Bk. Alpha. Demerara, Brit. Guiana*†	29.98	761.5	84	28.9	.....	ene.	.....	.....	4	.....	2	.....	.....	0	0	.....	.....	clear.
Schr. Annie Holton, Tampico Bar, Mexico†	30.11	764.8	68	20.0	.....	w.	.....	.....	2	.....	8	.....	w.	0	0	mod.	e.	fair.
Bk. Anna Thormann, S. 25° 25′ E. 3° 52′	30.21	767.3	72.9	22.7	73	ese.	.....	.....	4	.....	1 k	.....	se.	inap.	inap.	cross	sse.	clear.
S. S. Antonio Lopez, Cadiz, Spain	29.25	742.9	56.5	13.6	90	n.	.....	.....	3	.....	8	.....	.....	18 h'r	18 h'r	.....	.....	squally.
Bk. Aquidneck, N. 32° 20′, W. 71° 14′	.....	.....	62	16.7	.....	var.	.....	.....	5	.....	.....	.....	nw.	light	light	h'vy	w.	cloudy.
Bgt. Arthur, S. 9° 49′, W. 28° 00′*†	30.04	763.0	...	.....	.....	ese.	.....	.....	4	.....	5	.....	ese.	sh'rs	sh'rs	mod.	var.	
Bk. B. F. Watson, N. 22° 21′, E 114° 18′†	30.12	765.0	64	17.8	.....	ne.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	misty.
Bg. Belle of the Bay, Galveston, Texas†	30.04	763.0	.....	.....	.....	se.	.....	.....	3	.....	3	.....	se.	sh'rs	sh'rs	.....	.....	raining.
Bkt. Bonny Doon, N. 36° 29′, W. 10° 00′*†	29.44	747.8	.....	.....	.....	nnw.	.....	.....	4	.....	2	.....	nnw.	.....	.....	high	nnw.	drizzling.
Bk. Bremen, N. 41° 05′, W. 15° 24′ *	29.64	752.8	.....	.....	.....	sw.	.....	.....	5	.....	10	.....	sw.	4 h'r	4 h'r	cross	var.	light rain.
S. S. Burswell, N 47° 28′, W. 21° 18′.*†	29.10	739.1	51	10.6	.....	wsw.	.....	.....	8	.....	7	.....	wsw.	3 h'r	3 h'r	str'g	wnw.	squally.
Bk. Champion, Philadelphia, Pa	.....	.....	33	0.6	.....	sw.	.....	.....	3	.....	1	.....	sw.	0	0	.....	.....	clear.
Bk. Commerce, N. 36° 09′, W. 33° 52′ †	30.12	765.0	65	18.3	.....	w.	.....	.....	3	.....	10	.....	w.	6 h'r	6 h'r	mod.	w.	light rain.
S. S. D. J. Foley, N. 30° 15′, W. 71° 14′ *†	30.18	766.6	59	15.0	82	w.	.....	.....	6	.....	7	.....	w.	2 h'r	2 h'r	h'v'y	var.	fair.
Bk. E. D. Bigelow, N. 44° 47′, W. 22° 50′*†	29.35	745.5	.....	.....	.....	w.	.....	.....	9	.....	5	.....	w.	0	0	cross	wnw.	hazy.
Schr. Edith R. Seward, Wilmington, N. C†	30.41	772.4	22	— 5.6	.....	nnw.	.....	.....	2	.....	1	.....	nw.	0	0	.....	.....	
Bk. Edmund Phinney, S. 5° 50′, W. 33° 51′†	29.55	760.7	83	28.3	.....	ese.	.....	.....	4	.....	3	.....	ese.	0	0	mod.	se.	fair.
S. E. J. Spicer, Liverpool, Eng	29.48	748.8	45	7.2	93	se.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	foggy.
Bk. E. L. Pettingill, S. 39° 10′, W. 119° 10′*†	30.30	769.6	65	18.3	.....	ne.	.....	.....	4	.....	10	.....	nnw.	12 h'r	12 h'r	mod	ese.	raining.
Bk. Essex, Majambo, Madagascar*†	29.80	756.9	87	30.6	.....	n.	.....	.....	2	.....	.....	.....	.....	rain	rain	light	nw.	squally.
Schr. F. E. McDonald, Jacksonville, Fla†	30.31	769.9	.....	.....	.....	wnw.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	fine.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†	.....	.....	17	— 8.3	.....	calm	.....	.....	0	.....	1	.....	calm	.....	.....	.....	.....	clear.
S. S. Foscolia, Dunkirk, France	.....	.....	.....	.....	.....	s.	.....	.....	2	.....	10	.....	s.	5 h'r	5 h'r	.....	.....	drizzling.
Bk. Freya, Matanzas, Cuba, W. I	.....	.....	.....	.....	.....	ne.	.....	.....	1	.....	1	.....	n.	0	0	.....	.....	clear.
Bg. George. Ponce, Porto Rico, W I*†	30.18	766.6	.....	.....	.....	ne	.....	.....	1	.....	2	.....	.....	0	0	mod.	.....	fair.
S. Geo. Stetson, N. 0° 52′ W. 29° —′ *†	30.03	762.7	79	26.1	86	ese.	.....	.....	3	.....	7	.....	e.	0	0	sm'h	n.	cloudy.
Bg. Gipsey Queen, N. 37° 00′, W. 68° 00′*†	29.85	758.2	.....	.....	.....	nnw.	.....	.....	8	.....	10	.....	.....	8 h'r	8 h'r	long	ne.	gloomy.
Bk. Gronsvaer, Auckland, N. Z	29.93	760.2	72.6	22.6	.....	nw.	.....	.....	2	.....	3	.....	nw.	4 h'r	4 h'r	.....	.....	fine.
Bk. Hattie G. McFarland, Demerara, Brit. Guiana*†	30.06	763.5	78	25.6	.....	e.	.....	.....	6	.....	3	.....	e.	4 h'r	4 h'r	.....	.....	
Schr. Hattie Weston, N. 25° 15′, W. 60° 20′ *†	30.26	768.6	76	24.4	.....	s.	.....	.....	3	.....	2	.....	s.	0	0	mod.	var.	clear.
S. Hedwig, N. 46° 24′, W. 25° 51′	29.31	744.5	51.8	11.0	.....	w.	.....	.....	9	.....	7	.....	w.	0	0	9	w.	stormy.
Bk. Heinrich & Tonio, N. 45° 10′, W. 15° 32′	.....	.....	53	11.7	.....	sw.	.....	.....	6	.....	10	.....	sw.	5 h'r	5 h'r	h'vy	nw.	rainy.
Schr. Isabel Alberto, Jersey City, N.J. †	30.48	774.2	.....	.....	.....	nw.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
Schr. James Slater, N. 35° 20′, W. 68° 47′ *†	29.99	761.7	50	10.0	.....	nw.	.....	.....	8	.....	10	.....	nw.	snow	snow	h'vy	nw.	rainy.
Bk. Johanne, N. 37° 54′, W. 18° 10′ *†	29.74	755.4	64	17.8	.....	nnw.	.....	.....	5	.....	5	.....	wnw	6 h'r	6 h'r	r'gh	wnw.	fair.
Schr. John L. Thomas, N. 25° 35′, W. 62° 36′*†	30.22	767.6	.....	.....	.....	s.	.....	.....	1	.....	4	.....	sw.	0	0	h'vy	nw.	threatening.
Bkt. Josephine, S. 15° 27′, W. 31° 43′†	30.02	762.5	83	28.3	71	ese.	.....	.....	5	.....	8	.....	e.	0	0	r'gh	e.	fair.
Light House Tender, Laurel, Charlotte Harbor, Fla†	30.27	768.8	45	7.2	.....	ne.	.....	.....	3–4	.....	1	.....	ne.	0	0	long	nw.	clear.
Bk. Louise Adelaide, Vera Cruz, Mexico	.....	.....	...	.....	.....	wsw.	.....	.....	1	.....	4	.....	s.	0	0	long	n.	fine.
Bg. L. & W. Armstrong, N. 37° 15′ W. 70° 24′*†	29.98	761.5	.....	.....	.....	nw.	.....	.....	8	.....	8	.....	nw.	rain	rain	h'vy	nw.	snow & hail
S. S. Malabar, N. 36° 36′, W. 2° 38′ *†	29.12	739.6	.....	.....	.....	nne.	.....	.....	7	.....	0	.....	.....	0	0	sm'h	.....	clear.
Schr. Minnie A. Bonsall, Jacksonville, Fla†	30.46	773.7	54	12.2	.....	nnw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. Minnie N. Gerow, N. 38° 57′, W. 72° 40′ *†	30.18	766.6	.....	.....	.....	nnw.	.....	.....	6	.....	5	.....	nnw.	.....	.....	rg'h	.....	fair.
S. M. P. Grace. S. 35° 03′, W. 27° 25′ *	29.88	758.9	69	20.6	.....	nw.	.....	.....	6	.....	hz.	.....	.....	0	0	short	nnw.	foggy.
Bg. Myrtle, N. 26° 36′, W. 56° 20′*†	30.10	764.5	.....	.....	.....	sse.	.....	.....	2	.....	2	.....	sse.	0	0	sm'h	.....	fair.
Bkt. Norena, Off Stirrup Cays, W. I *†	30.29	769.4	.....	.....	.....	wnw.	.....	.....	3	.....	4	.....	nw.	0	0	sm'h	.....	fine.
Bg. O. C. Clary, Miragoane, Hayti, W. I	.....	.....	78	25.6	91	nne.	.....	.....	3	.....	1	.....	nne.	.....	.....	.....	.....	
Bk. Ottawa, Alicante Harbor, Spain*	29.21	741.9	60	15.6	.....	ene.	.....	.....	9	.....	10	.....	ene.	0	0	short	e.	cloudy.
S Paramita, San Francisco, Cal	30.07	763.8	39	3.9	.....	n.	.....	.....	5	.....	.....	.....	.....	0	0	.....	.....	clear.
S. S. Peconic, N. 31° 20′, W. 78° 30′ *†	30.30	769.6	47	8.3	.....	n.	.....	.....	4	.....	10	.....	nne.	0	0	sm'h	n.	overcast.
S. S. Raleigh, Off Moran Point, W. I *†	30.11	764.7	74	23.3	.....	nne.	.....	.....	6	.....	6	.....	nne.	0	0	r'gh	.....	
Bk. Reindeer, N. 24° 42′, W. 60° 57′*	30.12	765.0	.....	.....	.....	sse.	.....	.....	4	.....	9	.....	s.	0	0	long	wnw.	squally.
S. Rudolph, N. 46° 08′, W 13° 29′	.....	.....	56.4	13.6	.....	ssw.	.....	.....	6	.....	10	.....	sw.	1 h'r	1 h'r	cross	var.	light rain.
Schr. S. B. Hubbard, Jacksonville, Fla	.....	.....	30	— 1.1	.....	wnw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Scud, N. 25° 50′, W. 54° 57′*†	30.24	768.1	77	25.0	.....	sse.	.....	.....	3	.....	1	.....	.....	0	0	sm'h	.....	
Bk. Southern Belle, N. 25° 25′, W. 28° 30′ *†	30.20	767.1	68	20.0	.....	ne.	.....	.....	5	.....	2	.....	.....	0	0	mod.	nw.	clear.
S. Sovereign of the Seas, N. 0° 38′, W. 111° 14′*†	30.04	763.0	74	23.3	97	sse.	.....	.....	4	.....	10	.....	s.	4 h'r	4 h'r	long	sse.	cloudy.
Bk. Sunbeam, N. 38° 34′, W. 10° 37′*†	29.55	750.6	58	14.4	76	n.	.....	.....	7	.....	5	.....	nnw.	8 h'r	8 h'r	r'gh	n.	fair.
S. S. Sunbeam, N. 34° 17′, W. 71° 23′	30.11	764.8	47	8.3	100	nw.	.....	.....	9	.....	9	.....	nw.	10 h'r	10 h'r	8	nw.	rain & hail.
S. Titan, N. 29° 47′, W. 39° 45′*†	30.40	772.1	72	22.2	85	e.	.....	.....	2	.....	1	.....	e.	0	0	sm'h	nw.	clear.
Bk. Wandering Jew, Montevideo, Uruguay†	29.90	759.4	75	23.9	.....	nw.	.....	.....	3	.....	3	.....	nw.	0	0	.....	.....	clear.
Bk. Winifred, N. 35° 17′, W. 70° 20′	.....	.....	.....	.....	.....	nw.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	cloudy.
Schr. Wm. Wiler, N. 31° 33′, W. 74° 30′†	30.21	767.3	.....	.....	.....	nw	.....	.....	5	.....	8	.....	ne.	0	0	h'vy	nw.	fine.
Bk. Xenia, N. 30° 59′, W. 43° 22′*†	30.37	771.4	69	20.6	.....	s.	.....	.....	4	.....	10	.....	ssw.	0	0	long	nw.	cloudy.

International Chart I. January 12, 1883. Isobars and Isotherms.



By Order of the Secretary of War:
W.B.Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 13, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.42	747.2	63.3	17.4	80	e.	.....	.....	6	.....	3	.....	.....	0	0	pretty fair...	Malaterre.
Algiers	.....	.....	29.39	746.5	58.6	14.8	74	ssw.	.....	.....	6	.....	8	.....	.....	1.535	39.0	very cloudy	Thève.
La Calle	.....	.....	29.54	750.4	67.6	19.8	83	wsw.	.....	.....	3	.....	3	.....	.....	0.150	3.8	pretty fair...	Fonfréde.
Tunis	.....	.....	29.58	751.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	29.52	749.9	58.3	14.6	83	w.	.....	.....	3	.....	7	.....	.....	0.709	18.0	very cloudy	Pérés.
Tebessa	.....	.....	29.72	754.9	55.8	13.2	66	ssw.	.....	.....	6	.....	1	.....	.....	0	0	very fair.....	Dognon.
Geriville	.....	.....	.....	.....	44.2	6.8	54	w.	.....	.....	5	.....	6	.....	.....	0.709	18.0	cloudy... ...	Lonchamp.
Laghouat	.....	.....	29.63	752.5	53.6	12.0	54	ssw.	.....	.....	6	.....	7	.....	.....	0.181	4.6	very cloudy	Abraham.
Biskra	.....	.....	29.61	752.2	55.8	13.2	87	calm	.....	.....	0	.....	10	.....	.....	0.693	17.6	covered.....	Malau.
Australian.																			
Melbourne, Victoria	30.05	763 3	30.14	765 5	61.4	16.3	82	sse.	3	1.3	.....	.....	0	.....	.....	0	0	very fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.28	743.8	29.86	758.5	29.1	— 1.6	84	s.	.....	.....	1	.....	10	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.12	739.7	29.94	760.4	23.0	— 5.0	86	e.	7.6	3.4	.....	.....	2	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.07	738.4	30.02	762.5	19.8	— 6.8	84	calm	.....	.....	0	.....	9s	... ...	.....	0	0	.....	Julius Mikolik.
Gratz	28.57	725.6	29.89	759.2	24.8	— 4.0	68	w.	.....	.....	2	.....	10	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.51	724.2	30.04	763.0	23.2	— 4.9	69	sse.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.24	717.3	29.64	752.8	27.7	— 2.4	79	ene.	.....	.....	3	7 cics	0	.....	.....	0	0	gloomy.....	The Staff.
Lemberg	28.98	736.2	30.05	763.2	18.7	— 7.4	67	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.41	670.7	29.91	759 7	28.4	— 2.0	84	calm	.....	.....	0	.....	9	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	29.52	749.8	29.63	752.6	54.7	12.6	90	ese.	.....	.....	3	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.52	749.8	29.63	752.6	54.7	12.6	90	ese.	.....	.....	3	.....	10	.....	.....	0	0	.....	Joseph Midlinszay, S. J.
Szegedin	29.48	748.8	29.95	760.6	30.2	— 1.0	67	e.	.....	.....	2	.....	.....	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.61	752.2	29.91	759.6	36.0	2.2	75	se.	.....	.....	2	.....	4	.....	.....	0	0	.....	Royal Academy.
Vienna	29.60	751.8	29.70	754 3	50.0	10.0	79	e.	.....	.....	1	.....	10	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
	29.08	738.5	29.83	757.6	27.3	— 2.6	79	se.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....
British.																			
Aberdeen	29.52	749.8	29.62	752.3	40.5	4.7	87	se.	35	15.6	.....	.....	10	.....	.....	0.060	1.5	squally.....	W. Boswell
Armagh, Observatory	29.11	739.4	29.36	745.7	42.8	6 0	88	ene.	8	3.6	.....	.....	10	.....	.....	.....	.....	gloomy.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.31	744 5	42.2	5.7	89	ene.	24	10.7	.....	.....	10	.....	.....	.....	.....	raining.....	John Hartnup.
Bolton, Sharples	28.82	732.0	29.35	745.5	40.6	4.8	91	ese.	6	2.7	.....	.....	10	.....	.....	.....	.....	raining.....	Thomas Mackereth.
Bradford, Yorkshire	29.00	736.6	29.39	746.5	41.1	5.1	94	se.	.....	.....	2	.....	10	.....	.....	0.48	12.2	raining.....	McLandsborough&Preston'
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	74.0	23.3	95	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	gloomy.....	Corpl. J. Surgenor, A. H C.
Cardington	.....	.....	.....	.....	41.6	5.3	95	se.	.....	.....	0.6	.....	10	.....	.....	.....	.....	overcast.....	John McLaren.
Chatham, School M. E	29.20	741.7	29.33	745.0	42.5	5.8	92	ne.	.....	.....	1	.....	10	.....	.....	blank	blank	gloomy.....	Corpl. G. A. Pickles.
Falmouth, Observatory	28.90	734.0	29.12	739.6	48.5	9.2	82	e.	.....	.....	4	.....	9	.....	.....	.....	.....	d. clouds.....	The Staff.
Fort Napier, Natal	27.69	703.3	29.92	760.0	63.0	17.2	78	se.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast.....	Corpl. F. Milner, A. H. C.
Galway	29.20	741.7	29.24	742.7	44	6.7	91	e.	.....	.....	3	.....	7	.....	.....	0	0	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	29.61	752.1	29.66	753.4	60.5	15.8	97	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	gloomy.....	Sgt. J. Norris, A. H C.
Glasgow, Observatory	29.27	743.4	29.48	748.8	42.0	5.6	84	e.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast.....	Harry Urquhart, Asst
Greenwich, Royal Obs'y	29.14	740.1	29.32	744.7	44.2	6.8	87	e.	.....	.....	2	.....	9	.....	.....	.....	.....	drizzling....	The Staff.
Guernsey	28.83	732.3	29.12	739 6	46.5	8.1	92	ese.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S
Kew, Observatory	29.27	743.4	29.31	744.5	44.9	7.2	85	e.	18	8.0	.....	.....	9	.....	.....	.....	.....	misty	The Staff.
Leicester, Museum	29.09	738.9	29.34	745.2	42.0	5.6	93	se.	.....	.....	1	.....	10	.....	.....	.....	.....	drizzling....	J. C. Smith.
Malta, Mediterranean	29.63	752.6	29.69	754.1	62.2	16.8	78	se.	.....	.....	2	.....	6	.....	.....	0	0	d, clouds.....	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.24	768.1	30.28	769.1	69.5	20.8	77	e	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe
Oscott, St. Mary's College	28.77	730 7	29.29	744 0	40.2	4.6	98	e.	.....	.....	4	.....	10	.....	.....	.....	.....	threatening	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.07	738.4	29.30	744.2	43.0	6.1	90	e.	.....	.....	3	.....	10	.....	.....	.....	.....	misty.....	The Staff.
Plymouth	29.06	738.1	29.13	739.9	46.6	8.1	95	ese.	.....	.....	2	.....	10	.....	.....	.....	.....	drizzling....	John Merrifield.
Sandwick Manse, Orkneys	29.56	750.8	29.66	753.4	39	3.9	90	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	drizzling..	Rev. C. Clouston, L.L D.
Scutari Cemetery, Turkey	30.00	762.0	30.07	763.8	45.8	7.7	63	sw.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds....	W. H. Lyne.
Sheffield	29.14	740.1	29.42	747.3	40.1	4.5	98	ne.	.....	.....	2	.....	10	.....	.....	0.36	9.1	raining.....	W. F. Cooper.
Silloth Rectory	29.38	746.2	29.41	747.0	42.5	5.8	87	sse.	.....	.....	3	.....	10	.....	.....	0.290	7.4	overcast.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.39	746.5	41.4	5.2	87	e.	18	8.0	.....	.....	10	.....	.....	.....	.....	overcast.....	Rev. S. J. Perry.
Stratfield Turgiss	29.08	738.6	29.40	746.7	42.3	5.7	95	e.	.....	.....	2	.....	10	.....	.....	.....	.....	drizzling....	Rev.C.H.Grahams F.M.S.
Truro, Royal Institution	29.12	739.6	29.16	740.7	50	10.0	85	se.	.....	.....	6	.....	10	.....	.....	.....	.....	raining.....	W. Newcombe.
Valencia, Observatory	29.20	741 7	29.23	742.4	48.5	9.2	81	ne.	6	2.7	.....	.....	10	.....	.....	.....	.....	misty.....	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	2	—16.7	.....	calm	0	0	.....	.....	10 ks	.....	.....	.....	.....	overcast.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.22	767.6	30.26	768 6	3	—16.1	84	w.	16	7.2	.....	0	0	.....	.....	0	0	clear.....	H. J. Gundall, C E
Chatham, N. B*	30.24	768.1	30.31	769.9	— 5	—20.6	87	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	G. A Blair
Cornwall	29.74	755 4	29.96	761.0	2.8	—16.2	94	e.	.....	.....	1	.....	10 s	.....	.....	0	0	overcast.....	Jas. Smith, M. A.
Dalhousie	30.19	766.8	30.24	768.1	0	—17.8	.....	w.	.....	.....	1	.....	10 s	.....	.....	0	0	overcast.....	H. A. Johnson.
Father Point, Quebec*	30.18	766.6	30.20	767.1	2	—16.7	91	sw.	15	6.7	.....	.....	10 s	.....	calm	0	0	threatening.	J. McWilliams.
Fort Garry, Manitoba*	29.16	740.7	30.14	765.5	—20	—28.9	100	n.	22	9.8	.....	0	0	.....	.....	0	0	clear.....	James Stewart.
Fredericton	30.30	769 6	30.37	771.4	— 7.9	—22.2	100	nw.	1	0.4	.....	.....	.....	.....	.....	0	0	fair.....	Prof. Harrison, L. L. D.
Granton	29.56	725.4	29.70	754.4	32.1	0.1	97	s.	12	5.4	.....	.....	10 n	.....	.....	0.30	7.6	overcast.....	Jas. Grant.
Halifax, N. S*	30.22	767.6	30.36	771.1	2	—16.7	100	w.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	A. Allison.
Hamilton	29.26	743.2	29.66	753.4	33.2	0.7	88	sw.	.....	.....	5	10 c	0	sw.	.....	0.25	6.3	rain & snow	Geo. Dickson, B. A.
Kingston, Ontario*	29.53	750.0	29.89	759.2	21	— 6.1	100	s.	22	9.8	.....	.....	10 n	.....	.....	0.10	2.5	heavy snow	A. P. Knight, M. A.
Montreal, Quebec*	29.84	757.9	30.08	764 0	— 4	—20.0	87	e.	12	5.4	.....	.....	10 n	.....	.....	0	0	cloudy.....	C. H McLeod, C E.
Ottawa	29.68	753.9	29.95	760.7	0.1	—17.7	95	se.	.....	.....	2	.....	10 s	.....	.....	.....	.....	snowing.....	A. McGill, M. A.
Parry Sound, Ontario*	28.87	733.3	29.59	751.6	25	— 3.9	88	s.	22	9.8	.....	.....	10 n	.....	s.	0.20	5.1	light snow...	Rev. R. Mosley.
Peterboro	28.99	735.6	29.74	755.4	27.3	— 2.6	76	s.	.....	.....	3	.....	10 n	.....	.....	0.10	2.5	snowing.....	J. Dixon, B. A.
Port Dover, Ontario	29.04	737.6	29.75	755.6	31	— 0.6	100	s.	24	10.7	.....	.....	10 n	.....	sw.	0.30	7.6	light snow...	H. Morgan.
Port Stanley, Ontario	29.09	738.9	29.75	755.6	33	0.6	88	se.	16	7.2	.....	.....	10 n	.....	so.	0.20	5.1	light snow...	M. Payne.
Quebec, Quebec*	29.90	759 4	30.27	768.8	— 6	—21.1	75	calm	.....	.....	0	.....	fg.	.....	.....	0	0	foggy.....	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.26	743.2	29.76	755.9	4	—15.6	87	e.	10	4.5	.....	.....	10 n	.....	.....	0.12	3.0	heavy snow	W. H. McIntyre.
Saugeen, Ontario*	28.87	733.3	29.61	752.1	31	— 0.6	92	s.	30	13.4	.....	.....	10 s	.....	.....	0.30	7.6	cloudy.....	
St. Andrews, N. B	30.33	770.4	30.39	771.9	1	—17.2	100	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	
St. John, N. B	30.19	766.8	30.38	771.6	1.0	—17.2	100	n.	2	0.9	.....	0	0	.....	.....	0.08	2.0	blue sky.....	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.92	760 0	17.6	— 8.0	.....	nw.	.....	.....	7	.....	.....	.....	.....	0	0	.....	The Commandant.
Stratford	28.34	719.8	29.65	753.1	32.0	0.0	90	sw.	15	6.7	.....	.....	10 s	.....	.....	0.30	7.6	overcast.....	C. J. Macgregor, M. A.
Sydney, C. B*	30.09	764.3	30.16	766.1	10	—12.2	91	sw.	12	5.4	.....	0	2 k	.....	.....	0	0	clear.....	T. C. Hill, C. E.
Toronto, Ontario*	29.35	745.5	29.75	755.6	31	— 0.6	96	sw.	20	8.9	.....	.....	10 n	.....	.....	0.15	3.8	light snow...	Magnetic Observatory.
Windsor	30.16	766.1	30.27	768.8	5.0	—15.0	100	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	Prof. W. H. Butler.
Woodstock	28.60	726.4	29.70	754.4	32.7	0.4	87	s.	33	14.8	.....	.....	10 s	.....	.....	0.05	1.3	overcast.....	Prof. Wolverton, M. A.
Yarmouth, N. S*	30.36	771.1	30.42	772.7	8	—13.3	70	n.	1	0.4	.....	2 cs	hz	.....	.....	0.01	0.3	hazy.....	Lt. F. E. Wilmot, R N.
Cape Colony.																			
Cape St. Francis Lt. House	30.09	764.3	30.12	765.0	74.0	23.3	72	se.	0.4	2.9	.....	0	2 s	.....	.....	0	0	clear.....	John Duthie.
Springbok Fontein	27.87	707.9	.....	.....	88	31.1	25	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Sung-shu-chwang	24.71	627.5	.....	.....	23.0	— 5	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.35	770.8	30.46	773.6	28.2	— 2.1	92	ne.	.....	.....	6	.....	10	.....	.....	0	0	.....	Mission, S. J.
Zi-Ka-Wei, near Shanghai	30.35	771.0	30.38	771.7	38.8	3.8	95	n.	0.7	0.3	.....	.....	10 k	.....	.....	0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.97	761.3	30.02	762.5	32.0	0.0	78	se.	38	17	.....	.....	10	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	29.82	757.4	29.84	757.9	30.2	— 1.0	67	e.	.....	.....	7	.....	1	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.14	740.2	29.19	741.3	15.1	— 9.4	59	ene.	.....	.....	3	.....	1	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	29.63	737.4	29.05	737.9	21.6	— 5.8	.....	se.	.....	.....	4	.....	7	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.22	742.2	29.27	743.4	19.8	— 6.8	.....	calm	.....	.....	0	.....	9	.....	.....	.....	.....	foggy	
Stykkisholm, Iceland	29.15	740.3	29.19	741.4	38.1	3.4	85	se.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	
Thorshavn	29.64	752.8	29.67	753.7	42.4	5.8	81	se.	23.5	10.5	.....	.....	10	.....	.....	.....	.....	.....	A. O. Thorlacius.
Vestervig	29.87	758.6	29.96	760.9	29.7	— 1.3	80	e.	.....	.....	6	.....	0	.....	.....	.....	.....	.....	Overloerer Bergh.
Upernavik, Greenland	29 28	743.8	29.33	745 0	1.9	—16.7	.....	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	28 50	724.0	29.14	740.2	47.5	8.6	97	calm	.....	.....	0	.....	11	.....	.....	0	0	.....	M. Labroue, Director.
Alençon, Normal School	28.64	727.4	29.19	741.4	44.6	7	94	se.	.....	.....	2	.....	10 n	nw.	nw.	0.12	3.	raining	M. Nicot, Director.
Arras, Engineer School	29.08	738.6	29.34	745.2	41.4	5.2	78	.....	.....	.....	1	.....	10	.....	.....	.....	.....	raining	M. Fénéon, Command't.
Avignon, Normal School	29.06	738.1	29.14	740.1	55.4	13	64	se.	.....	.....	4	.....	10	.....	se.	0.08	2.	covered	M. Giraud, Director.
Bar-sur-Seine	28.71	729.1	29.26	743.3	42.1	5.6	80	e.	.....	.....	1	.....	10	.....	s.	0	0	hazy	M. Saillard, Director.
Beauvais, Normal School	29.05	737.8	29.32	744.6	42.8	6	79	e.	.....	.....	1	.....	10	.....	.....	0.039	1.0	covered	M. Frère Eugène Marie.
Besançon, Normal School	28.36	720.4	29.25	743.0	35.2	1.8	75	ne.	.....	.....	1	.....	cn	.....	ne.	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	28.76	730.4	29.01	736.9	51.1	10.6	71	sse.	.....	.....	1	.....	8	.....	.....	0.051	1.3	very cloudy	M. Rayet, Director.
Bourges, Normal School	28.66	728.0	29.21	741.8	43.9	6.6	91	nne.	.....	.....	1	.....	10 n	.....	nne.	0.193	4.9	raining	M. Malet, Director.
Brest, Naval Observatory	28.83	732.3	29.08	738.5	48.6	9.2	89	ese.	.....	.....	2	.....	6	.....	ese.	0.118	3.0	.....	M. de Kermaingo, Dir.
Châlons-sur-Marne, N.Sch'	28.97	735 8	29.29	743.9	39.9	4.4	52	sw.	.....	.....	1	.....	5	.....	w.	0.016	0.4	cloudy	M. Berson, Director.
Charleville, Normal School	28.93	734.7	29.45	747.9	37.0	2.8	63	ese.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Jadot, Director.
Clermont-Ferrand Obs'y	27.82	706.5	29.16	740.6	44.8	7.1	85	se.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Grimard, Director.
Cluny, Normal School	28.37	720.5	29.21	742.0	35.6	2	89	ne.	.....	.....	1	.....	10	.....	se.	0.083	2.1	covered	M. Allnard, Director.
Commercy, Normal School	28.51	724.1	29.39	746.6	33.1	0.6	92	e.	.....	.....	1	.....	fg	.....	ne.	0	0	foggy	M. de Villemontée, Dir.
Gap, Normal School	26.77	680.0	29.28	743.6	45.5	7.5	66	e.	.....	.....	1	.....	10 kn	e.	e.	0	0	covered	Dr. Coulet, Director.
Gréasque, du Rhone	28.09	713.4	29.19	741.5	49.8	9.9	84	se.	.....	.....	2	.....	10	.....	se.	0.157	4.0	light rain	M. Jeangirard, Director.
Grenoble, Normal School	28.42	721.8	29.19	741.5	41.0	5	74	e.	.....	.....	1	.....	ckn	se.	ne.	0	0	.....	M. Kina, Director.
Guéret	27.56	700.1	29.13	740.0	42.8	6	85	e.	.....	.....	1	.....	n	.....	s.	0.362	9.2	.....	M. Allard, Director.
Lamballe, Normal School	28.83	732.2	29.10	739.0	47.1	8.4	89	ese.	.....	.....	1	.....	5	.....	ese.	0	0	cloudy	M. Delorme, Dir.
Lescar, Normal School	28.39	721.2	28.95	735.2	49.6	9.8	80	se.	.....	.....	1	0	5 n	.....	.....	0	0	cloudy	M. Ollitrault, Director.
Lorient, Naval Observatory	28.95	735.3	29.05	737.9	49.3	9.6	74	e.	.....	.....	1	.....	10	se.	e.	0.008	0.2	covered	M. Chauvin, Director.
Lyon, St. Genis-Laval	28.17	715.6	29.23	742.5	40.6	4.8	78	n.	.....	.....	1	.....	10 n	.....	.....	.....	.....	rain & fog	Lt. T. Carré, Director.
Mans, Normal School	28.86	733.0	29.21	741.9	44.4	6.9	92	sse.	.....	.....	3	.....	10	.....	.....	0.031	0.8	covered	M. André, Director.
Marseille, Observatory	28.87	733.4	29.14	740.2	54.3	12.4	71	ese.	.....	.....	6	.....	10	.....	sse.	0.685	17.4	raining	M. Piboën, Director.
Montlouis	23.89	666.9	28.74	729.9	32.0	0.0	100	w.	16.8	7.5	.....	.....	10	nw.	.....	0.307	7.8	.....	M. Stephan, Director.
Montpellier, Normal School	28.95	735.4	29.08	738.7	50.7	10.4	95	sse.	.....	.....	1	.....	10	nw.	.....	0.307	7.8	.....	M. Curé for Dr. Finas.
Nancy, Normal School	28.51	724.1	29.31	744.5	32.7	0.4	81	nw.	.....	.....	3	.....	5	.....	ese.	1.06	27.	raining	M. Galzin, Director.
Nantes, Observatory	28.94	735 0	29.10	739.2	50.5	10.3	83	ese.	.....	.....	1	.....	11	.....	.....	0	0	.....	M. Hasse, Director.
Perpignan, Observatory	28.85	732.7	28.96	735.5	52.2	11.2	96	s.	7.4	3.3	1–2	.....	10 n	kn	ese.	0.028	0.7	.....	M. Larocque, Director.
Pic-du-Midi, Summit	20 36	517.1	.....	.....	23.0	— 5.0	.....	w.	.....	.....	1	.....	10	.....	sse.	0.280	7.1	.....	Dr. Fines, Director.
Privas, Normal School	28.15	714.9	29.25	742.9	43.2	6.2	97	s.	.....	.....	1	.....	10	.....	w.	0.236	6.0	snowy	M. Vaussenat.
Puy de Dôme Obs'y, Summit	24.26	616.3	.....	.....	31.5	— 0.3	100	se.	.....	.....	1	.....	10	.....	s.	0.20	5.	covered	M. Taillieu.
Rochefort, Naval Obs'y	29.05	737.8	29.08	738.6	50.0	10.0	86	se.	.....	.....	2	.....	5	.....	sse.	0	0	foggy	M. Allnard, Director.
Roche-sur-Yon, N. School	28.78	730.9	28.98	736.2	48.0	8.9	89	e.	.....	.....	3	.....	5	se.	e.	0	0	cloudy	Lt. E. Decante, Director.
Rodez, Normal School	26.97	684.9	29.09	738.8	43.9	6.6	97	w.	.....	.....	2	.....	11	.....	w.	0.453	11.5	.....	M. Brotier, Director.
Rouen, Normal School	29.26	743.3	29.31	744.5	47.5	8.6	81	se.	.....	.....	4	.....	8	se.	.....	0	0	very cloudy	M. Seger, Director.
Saint Lô	.....	.....	.....	.....	47.7	8.7	77	se.	.....	.....	1	.....	5	.....	se	0	0	cloudy	M. Moullot.
Saint Maur, Observatory	29.13	739 8	29.29	744.0	43.2	6.2	77	e.	.....	.....	1	.....	10	.....	.....	0.020	0.5	.....	M. Delaplanche, Dir.
Toulouse, Observatory	28.34	719.9	29.05	737 9	49.3	9.6	95	sw.	.....	.....	1	.....	10	w.	.....	0.516	13.1	covered	M. Renou, Director.
Tours	28.96	735.6	29.13	740.0	45.3	7.4	94	e.	.....	.....	1	.....	10	.....	se.	.....	.....	raining	M. Bailland, Director.
Versailles, Observatory	28 78	730.9	29.27	743 4	42.1	5.6	88	se.	.....	.....	1	.....	.....	.....	.....	0.272	6.9	.....	M. de Tastes.
Sub-series.																			Dr. A. Bérigny, Director.
St. Martin du Hinx	28.90	734.0	29.05	737.8	51.8	11.0	60	w.	11.9	5.3	.....	0	8 k	.....	nw.	0.134	3.4	.....	M. Cartier, Director.
GERMAN.																			
Ansbach	28.06	712 6	29.55	750.5	32.4	0.2	70	e.	.....	.....	6	.....	5	e.	.....	0	0	.....	Prof. Jnedt.
Bamberg	28.69	728.8	29.52	749.9	33.8	1.0	60	se.	.....	.....	1	0	3 8	.....	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	29.65	753.1	29.80	757.0	27.0	— 2.8	67	e.	.....	.....	3	.....	1	.....	.....	0	0	.....	Dr. Lensch.
Breslau	29.32	744.6	29.84	758.0	28.9	— 1.7	66	ese.	.....	.....	2	.....	10	.....	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	28.97	735 9	29.41	747.1	34.7	1.5	61	ne.	.....	.....	3	.....	10	sw.	.....	0	0	.....	Albert Senz.
Cassel	28.81	731.8	29.52	749.9	34.5	1.4	55	ne.	.....	.....	1	.....	6	n.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.13	740.0	29.52	749.7	34.2	1.2	65	ne.	.....	.....	2	.....	3	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	27.94	709.6	29.41	746.9	32.0	0	74	ene.	.....	.....	8	.....	10	sw.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	29.68	753.9	29.77	756.2	23.4	— 4.8	76	e.	.....	.....	4	.....	2	.....	.....	0	0	light fog	E. Preller.
Kiel	29.81	757.2	29.83	757.6	26.8	— 2.9	66	e.	.....	.....	6	.....	0	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.24	742.8	29.68	753.9	29.7	— 1.3	67	e.	.....	.....	3	.....	2	.....	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	29.50	749.4	29.70	754.4	30.7	— 0.7	60	e.	.....	.....	3	.....	0	.....	.....	0	0	.....	Weather Observatory.
Memel	30.19	766.8	30.24	768.0	21.2	— 6.0	85	ne.	.....	.....	2	0	0	.....	.....	.....	.....	clear	Issermann.
Munich	27.70	703.6	29.53	750.1	32.9	0.5	75	e.	.....	.....	1	.....	6	e.	.....	0	0	.....	Central Station.
Neufahrwasser	30.11	764.9	30.13	765.3	29.1	— 1.6	84	e.	.....	.....	1	.....	5	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	28.91	734.4	29.43	747.5	32.7	0.4	73	calm	.....	.....	0	.....	2	w.	.....	0	0	.....	Dicknether.
Stuttgart	28.47	723.0	29.38	746.2	33.8	1.0	81	ne.	.....	.....	1	.....	8	w.	.....	0	0	foggy	Prof. Dr. Schoder.
Wustrow	29.91	759.8	29.94	760.4	26.8	— 2.9	94	e.	.....	.....	4	0	3 8	.....	.....	0	0	.....	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.69	754.2	30.08	764.1	54.7	12.6	.....	n.	.....	.....	0.5	.....	10	.....	.....	0	0	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	30.06	763.5	30.11	764.8	74.6	23.7	48	wsw.	13.0	5.8	.....	.....	2	.....	.....	0	0	d. clouds	
Deesa	29.52	749 8	30.00	761.9	83.0	28.3	26	w.	4.0	1.8	.....	.....	2	sw.	.....	0	0	hazy	
Bombay	29.92	759.8	29.95	760.8	80.6	27.0	60	wnw.	9.0	4.0	.....	.....	9	w.	wnw.	0	0	d. clouds	
Poona, Yarrowda	28.10	713.6	29.95	760.6	82.2	27.9	25	ne.	7.0	3.1	.....	.....	3	wsw.	.....	0	0	d. clouds	
Belgaum	27.40	695.8	29.94	760.3	77.2	25.1	38	e.	9.0	4.0	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.30	744.2	30.07	763.8	66.6	19.2	50	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	29.10	739.3	30.04	762.9	65.8	18.8	45	calm	0	0	.....	.....	0	.....	.....	0	0	.....	
Agra	29.50	749.2	30.08	764.0	68.2	20.1	43	nw.	.....	.....	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.96	735.5	30.01	762.3	77.7	25.4	42	ene.	2.0	0.9	.....	.....	5	w.	.....	0	0	d. clouds	
Jubbulpore	28.66	728.0	30.04	763.1	72.7	22.6	48	calm	2.0	0.9	.....	.....	3	.....	.....	0	0	d. clouds	
Lucknow	29.68	753.7	30.07	763.7	67.3	19.6	53	calm	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.74	755.4	30.07	763 8	61.3	16.3	88	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.87	758.8	30.07	763.7	64.8	18.2	54	w.	3.3	1 5	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.98	710 7	30.07	763.9	60.5	15.8	59	nnw.	4.6	2.1	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.96	760.8	30.04	763.0	71.8	22.1	63	w.	6.0	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Allpore	30.01	762.2	30.03	762.8	66.5	19.2	61	nnw.	1.0	0.4	.....	.....	2	.....	.....	0	0	d. clouds	
Dhubri	29.90	759.4	30.02	762.5	64.7	18.2	77	calm	0.2	0.1	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.94	760.3	30.03	762.7	66.6	19.2	69	nw.	1.5	0.7	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.70	754.4	30.09	763.4	59.8	15.4	85	e.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar	29.80	757.0	29.82	757.5	86.5	30.3	61	n.	11.2	5.0	.....	.....	0	.....	.....	0	0	blue sky	
Jeypore	28.60	726 4	30.08	764.1	68.7	20.4	51	nw.	2.6	1.2	.....	.....	0	.....	.....	0	0	blue sky	
Bellary	28.48	723 4	.....	.....	80.0	26.7	45	e.	6	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.70	754.4	.....	.....	78.3	25.3	72	e.	2	0.9	.....	.....	10	.....	.....	0	0	overcast	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.32	744.6	29.74	755.3	42.6	5.9	92	n.	1.3	0.6	.....	.....	10	.....	.....	0.150	3.8	.....	Prof. Giovanni Clodig.
Milan	29.09	738.8	29.63	752.5	34.5	1.4	94	e.	5.6	2.5	.....	.....	10	.....	.....	0.492	12.5	.....	Prof. Schiaparelli.
Padua	29.56	750.8	29.67	753.7	43.2	6.2	86	nne.	11.9	5.3	.....	.....	10	se.	.....	0.138	3.5	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.68	728.4	29.62	752.4	35.2	1.8	96	ne.	0.7	0.3	.....	.....	10	.....	.....	1.323	33.6	.....	Prof. F. F. Denza.
Genoa	29.25	743.0	29.45	747.9	43.2	6.2	76	ne.	11.2	5.0	.....	.....	10	se.	.....	0.677	17.2	.....	Prof. G. M. Garibaldi.
Mondovi	27.68	703.0	29.67	753.5	32.7	0.4	100	w.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.51	749.5	29.56	750.8	40.3	4.6	53	w.	0.3	2.8	.....	.....	10	.....	.....	0.105	4.2	.....	Prof. Luigi Guidi.
Florence	29.22	742.3	29.48	748.9	51.4	10.8	66	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.71	754.7	29.80	756.9	53.4	11.9	67	ne.	11.9	5.3	.....	.....	10	.....	.....	0.193	4.9	.....	Prof. P. Monte.
Rome	29.32	744.8	29.50	749.3	61.5	16.4	51	sse.	21.0	9.4	.....	.....	10	s.	.....	0	0	.....	Prof. P. Tachini.
Lecce	29.55	750.5	29.80	757.0	57.6	14.2	80	se.	30.4	13.6	.....	.....	10	se.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	28.88	733.5	29.78	756.3	55.0	12.8	77	sse.	3.1	1.4	.....	.....	10	se.	.....	0	0	.....	Prof. D. Conti.
Caglinri	29.09	738.8	29.28	743.8	61.0	16.1	71	se.	.....	.....	6	.....	10	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.26	743.2	29.51	749.6	6555	18.6	41	ne.	3.1	1.4	.....	.....	10	.....	.....	0	0	.....	Prof. G. Caccintore.
Syracuse	29.56	750.8	29.60	751.9	61.5	16.4	82	ese.	6.3	2.8	.....	.....	10	ese.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.11	739.5	29.63	752.6	59.9	15.5	60	se.	5.6	2.5	.....	.....	10	sw.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	21.69	551.0	.....	.....	23.9	— 4.5	95	w.	.....	.....	6	.....	10	.....	.....	0.079	2.0	misty	Prof. P. F. Denza.
Valdobbia	21.66	550.2	.....	.....	19.8	— 6.8	70	n.	.....	.....	2	.....	10	.....	.....	8.662	220.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.10	764 4	30.13	765.2	27.6	— 2.4	100	calm	.....	.. ..	0	.....	10 n	.....	w.	0.205	5.2	snowing	Hattori.
Awomori	30.04	762.9	30.07	763.9	26.5	— 3.1	85	s.	3.1	1.3	.....	.....	10 n	.....	.....	0.139	3.5	light snow	K. Ogawa.
Hakodate	30.05	763.3	30.06	763.6	23.9	— 4.5	100	n.	1.8	0.8	.....	0	8	.....	.....	0	0	cloudy	
Hamamatsu	30.16	766.0	30.19	766.7	42.1	5.6	76	calm	.....	.....	0	....	10 n	.....	.....	0.677	17.2	raining	
Kagoshima	30.11	764.9	30.13	765.2	50.2	10.1	90	n.	.....	.....	2	0	1 cs	.....	.....	0.331	8.4	clear	G. Miyanohasa.
Kioto	30 04	763.0	30.22	767.6	38.3	3.5	92	wnw.	2.2	1.0	.....	.....	10 n	.....	.....	0.304	7.7	raining	M. Tojima.
Kochi	30.11	764 8	30.13	765.3	45 1	7.3	92	w.	5.6	2.5	.....	.....	10	.....	.....	0.272	6.9	raining	K. Kusunose.
Miasaka	30.10	764.6	30.13	765.3	48.9	9.4	98	calm	.....	.....	0	.....	10 s	.....	nw.	0.098	2.5	covered	K. Masusaki.
Nagasaki, I. M. Obs'y	29.96	760.8	30.17	766.2	44.4	6.9	92	n.	5.7	2.5	.....	.....	10 n	.....	.....	0.120	3.0	light rain	S. Takehayashi.
Niigata	30.10	764.5	30.14	765.5	33.5	0.8	74	sw.	6.8	3.0	.....	0	5 ck;s	.....	w.	0.175	4.4	fair	M. Morita.
Nobiru	30.14	765.5	30.15	765.9	25.2	— 3.8	71	nnw.	5.5	2.4	.....	.....	10 s	.....	.....	0	0	overcast	H. Midzushina.
Numazu	30.14	765.5	30.17	766.4	38.3	3.5	87	ne.	.....	.....	2	0	2 ks	.....	.....	0.270	5.5	fair	R. Kaneda.
Sakai	30.17	766.2	30.18	766.5	42.5	5.8	81	calm	.....	.....	0	.....	10 s	.....	.....	0.012	0.3	cloudy	K. Yamawchi.
Sapporo	.....	.....	.....	.....	20.9	— 6.2	97	calm	0	0	.....	.....	10	.....	.....	0.030	0.8	covered	
Tokei Obs'y, Yeddo	30.10	764.5	30.18	766.5	36.2	2.3	64	s.	3.0	1.3	.....	2ck;cs	0	sw.	.....	0.116	2.9	clear	The Staff.
Wakayama	30.14	765.5	30.19	766.9	40.3	4.6	94	ne.	2.0	0.9	.....	.....	10 n	.....	.....	0.477	12.1	raining	Y. Kuwamura.
Osaka	30.19	766.9	30.21	767 3	38.9	3.8	92	ene.	6.7	2.9	.....	.....	10 n	.....	.....	0.290	7.3	raining	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.68	753 9	29.87	758.7	82.1	27.8	66	ene.	12.5	5.6	.....	6ck;cs	4 k;n	w.	ne.	0	0	overcast	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	53.2	11.8	100	ne.	.....	.....	.....	.....	.....	.....	.....	.....	.....	dense fog	H. Diaz Pena.
Guanajuato	23.69	601.6	29.91	759.6	53.6	12.0	78	calm	0	0	.....	4 ks	2 c	sw.	sw.	0	0	fair	Prof. Vicente Fernandez.
Leon	24.34	718.2	30.14	765.5	48.2	9.0	90	w.	.....	.....	1	0	3 ks	.....	.....	0	0	dense fog	Prof. M. Leal.
Mazatlan	29.81	757.1	30.07	763.8	64.0	17.8	94	n.	0.9	0.4	.....	1 ck	0	.....	.....	0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.09	586.5	30.30	769.5	41.9	5.5	72	calm	0	0	.....	2 ck	2 s	.....	.....	0	0	½ cloudy	The Staff.
Morelia	24.24	615.7	30.06	763.4	43.0	6.1	76	se.	.....	.....	3	3 c	3 k	s.	s.	0	0	½ cloudy	M. Tena, M. D.
Puebla, Catholic Institute	23.40	594.6	30.34	770.7	41.0	5.0	95	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. D.
Zacatecas	22.52	572.1	30.28	769.0	44 5	7.0	80	sw.	11.6	5.2	.....	0	2 s	.....	sw.	0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.41	746.9	29.41	746.9	38.1	3.4	.....	e.	.....	.....	4	.....	.....	.....	.....	0.055	1.4	.....	
Groningen	29.55	750.5	29.60	751.9	26.2	— 3.2	.....	e.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Hellevoetsluis	29.43	747.6	29.43	747.6	35.8	2.1	64	ene.	.....	.....	2	.....	.....	.....	.....	0.004	0.1	.....	H. van der Brink.
Utrecht	29.46	748.3	29.51	749.5	33.4	0.8	68	e.	.....	.....	2	.....	5	.....	.....	0	0	cloudy	
Sub-series.																			
Batavia, Java	29.86	758.5	.....	.....	78.8	26.0	88	nnw.	0	0	.....	.....	6	.....	.....	1.65	42.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.90	759.4	29.96	761.0	26.6	— 3.0	74	sse.	2	1	.....	.....	0	.....	.....	0	0	.....	
Brono	29.97	761.1	30.00	762.1	24.8	— 4.0	53	calm	0	0	.....	.....	0	.....	.....	0	0	.....	
Christiania	30.10	764.5	30.26	768.5	23.7	— 4.6	84	ne.	7	3	.....	.....	10	.....	.....	.....	.....	snowing	
Gjesvaer	30.03	762.7	30.05	763.3	24.1	— 4.4	.....	se.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	
Lodingen	29.97	761.2	30.02	762.4	23.5	— 4.7	58	n.	.....	.....	2	.....	10	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	29.85	758.3	30.02	762.4	53.6	12.0	86	nw.	3.8	1.7	.....	.....	6	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.37	720.7	29.37	746.0	51.6	10.9	68	wnw.	21.7	9.2	.....	.....	7	.....	.....	0.406	10.3	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	29.96	761.0	30.05	763.2	66.9	19.4	67	sse.	4.3	1.9	.....	.....	3	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.16	740.7	29.52	749.8	56.5	13.6	53	nw.	31.1	13.9	.....	.....	9	nw.	.....	0.157	4.0	.....	The Staff.
Ponta Delgada, Azores	29.99	761.7	30.06	763.5	63.3	17.4	84	wnw.	4.9	2.2	.....	.....	8	.....	.....	0.055	1.4	.....	
Saint Paul de Loando	29.67	753.6	29.87	758 7	82.8	28.2	90	sw.	2.5	1.1	.....	.....	8	.....	.....	0	0	.....	
Serra da Estrella	24.46	621.3	29.22	742.2	31.5	— 0.3	100	nw.	36.0	16.1	.....	.....	10	.....	.....	.....	.....	hail and fog	
RUSSIAN.																			
Akmolinski	28.85	732.9	30.04	763.1	5.2	—14.9	69	w.	11	5	.....	.....	9 k	.....	.....	.....	.....	.....	Major K. Lasarew.
Archangel	29.95	760.6	29.97	761.1	—11.6	—24.2	83	nw.	4	2	.....	2 cs	0	.....	.....	0	0	.....	Capt. Sselwerstow.
Ashurada	30.47	773.8	30.37	771.4	43.3	6.3	72	e.	11	5	.....	0	2 ks	.....	.....	blank	blank	.....	
Astrakhan	30.11	764.7	30.02	762.6	23.4	— 4.8	93	wsw.	22	10	.....	.....	10 n	.....	.....	0.028	0.7	heavy cl'ds.	Capt. Wisganow.
Baku	30.31	769.9	30.26	768.7	35.4	1.9	75	sw.	9	4	.....	0	0	.....	.....	0	0	.....	
Barnaul	29.61	752.0	30.16	766.0	6.1	—14.4	76	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Bielosersk	29.49	749.1	30.04	763 0	—21.3	—29.6	85	n.	7	3	.....	0	2 s	.....	.....	.....	.....	.....	
Dorpat	29.93	760.2	30.20	767.0	11.7	—11.3	97	nnw.	2	1	.....	.....	10 s	.....	.....	0.047	1.2	.....	Observatory.
Ekaterinburg	28.45	722 5	29.52	749.9	—13.4	—25.2	63	sw.	0	4	.....	.....	10	.....	.....	inap.	inap.	light clouds	Meteorological Obs'y.
Elisawetgrad	29.65	753.0	30.13	765.4	15.8	— 9.0	81	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Irkutsk	28.80	731.6	30.01	777.4	11.7	—11.3	95	calm	.....	.....	0	.....	7	.....	.....	0.663	1.6	.....	
Kasan	29.23	742.4	29.53	750.1	—15.5	—26.4	75	w.	13	6	.....	3 cs	0	.....	.....	0.012	0.3	.....	Observatory.
Kem	30.04	762.9	30.08	764.2	— 3.6	—19.8	87	calm	0	0	.....	.....	10 ks	.....	.....	0	0	.....	
Kerteh	30.11	764.7	30.13	765.2	33.6	0.9	90	calm	0	0	.....	0	7 n	.....	.....	0	0	heavy cl'ds.	
Kieff	29.39	746.4	30.06	763 6	20.3	— 6.5	65	calm	0	0	.....	1 c;ck	0	.....	.....	0	0	.....	Lagorio & Sustyrea.
Koslov	29.30	744.1	29.89	759.1	— 2.0	—18.9	84	nnw.	4	2	.....	.....	10 s	.....	.....	0	0	.....	Observatory.
Libau	30.19	766.8	30.21	767.4	22.1	— 5.5	76	nnw.	4	2	.....	.....	0	.....	.....	0	0	.....	
Lugan	29.74	755.3	29.94	760.4	16.7	— 8.5	76	e.	4	2	.....	.....	9	.....	.....	0.016	0.4	.....	E. Quaas.
Moscow	29.42	747 3	29.97	761.3	— 7.4	—21.9	83	wsw.	13	6	.....	.....	9	.....	.....	0.079	2.0	.....	Meteorological Obs'y.
Nikolaiev	30.08	763 9	30.15	765.8	17.2	— 8.2	82	wnw.	6.7	3.0	.....	0	0	.....	.....	0	0	.....	
Nikolaievsk-on-the-Amoor	30.20	767.0	30.28	769 2	—10.6	—27.0	70	n.	4	2	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Pekin, China	30.34	770.5	30.48	774.1	24.1	— 4.4	59	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Iwanow.
Petrozavodsk	29.84	757.9	30.06	763.6	— 5.3	—20.7	86	se.	7	3	.....	0	2 k	.....	.....	0	0	.....	Physical Observatory.
Pinsk	29.60	751 9	30.13	765.3	24.1	— 4.4	63	nnw.	7	3	.....	0	5 ks	.....	.....	0	0	.....	Dr. Bergmann.
Poti	30.21	767.2	30.22	767.7	27.9	— 2.3	83	nne.	4	2	.....	0	1 s	.....	.....	0	0	.....	
St. Petersburg	30.10	764 6	30.12	765.0	6.8	—14.0	96	e	4	2	.....	0	0	.....	.....	0	0	.....	
Samarkand	.....	.....	.....	.....	.....	.....	.....	n.	4	2	.....	.....	10 n	.....	.....	inap.	inap.	light snow	Central Physical Obs'y.
Sevastopol	29.86	758 5	30.03	762.7	35.1	1.7	73	sw.	7	3	.....	.....	10 n	.....	.....	0	0	.....	
Semipalatinsk	29.45	748.0	30.14	765.5	25.5	— 3.6	67	se.	16	7	.....	.....	5	.....	.....	0	0	.....	Major Lasarew.
Starol Bykhov	29.64	752.8	30.15	765.7	8.1	—13.3	80	ne.	7	3	.....	.....	10	.....	.....	0.039	1.0	.....	
Tiflis	28.87	733.2	30.37	771.4	31.5	— 0.3	38	e.	4	2	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Tomsk	29.74	755.5	30.04	763.0	21.7	— 5.7	53	s.	9	4	.....	.....	1 s	.....	.....	.....	.....	.....	
Viatka	28.72	729 5	29.43	747.4	—11.6	—24.2	.....	nnw.	7	3	.....	.....	6	.....	.....	0	0	.....	
Warsaw	29.62	752.3	30.07	763 7	23.4	— 4.8	67	se.	16	7	.....	0	1 s	.....	.....	0	0	heavy cl'ds.	Astronomical Obs'y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	inch.	M.M.	Inch.	M.M.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	M.M.		
Russian.—Continued.																			
Wilna	29.75	755.7	30.21	767.4	12.6	—10.8	100	calm	0	0			9			0	0	heavy clouds	Berg, Assistant.
Yeniseisk	30.07	763 8	30.39	771.9	4.5	—15.3	86	ese.	4	2			3			0	0		M. O. Marks.
Scottish.																			
Monach Lt			29.46	748.3	44	6.7	92	se.			6		10			0	0	cloudy	J. Youngclause.
North Unst			29.77	756.1				s.			6		8			blank	blank		Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	28.99	736.3	29.10	739.0	55.4	13.0	65	sw.	2.9	1.3		0	4			0.331	8.4		Antonio Rzve, Director.
Bilbao, Met. Obs'y	29.02	737.0	29.08	738.5	55.4	13.0	63	s.	3.6	1.6		2.	3	w.		0.028	0.7	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	26.17	664.6	29.16	740.6	38.7	3.7	80	sw.	8.5	3.8			9			0.413	10.5	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	26.94	684.3	29.16	740.6	44.8	7.1	64	sw.	17.9	8.0			10			0.083	2.1	covered	The Staff.
Murcia, Met. Obs'y	29.10	739.2	29.26	743.1	54.7	12.6	68	nw.	3.8	1.7		2	6	e.		0.028	0.7	raining	Olayo Diaz, Director.
Oviedo	28.64	727.4	29.52	749.7	45.5	7.5	75	e.	8.9	4.0		5 n	5 n	w.	w.	0.181	4.6	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.19	715.9	29.07	738.3	48.6	9.2	90	w.	8.7	3.9			10			0.650	16.5	raining	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.93	760.2	29.98	761.6	77.9	25.5	70	ne.	4.9	2.2		0	2 8			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.42	747.3	29.52	749.8	60.6	15.9	79	w.	19.9	8.9			10		w.	0.079	2.0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.00	761.9	30.09	764.2	75.2	24.0	94	e.	9.4	4.2		4 k	3 k	e.	e.	0.079	2.0	d. clouds	Manuel Maese.
Swedish.																			
Haparanda	30.16	766.1	30.20	767.1	— 0.4	—18.0	100	n.			2		2			0	0		
Umea	30.18	766.6	30.23	767.9	0.7	—17.4		n.			2		0			0	0		
Hernosand	30.25	768.3	30.30	769.6	1.4	—17.0	100	calm			0		5			0	0		
Stockholm	30.10	764 4	30.27	768.9	24.8	— 4.0	77	nnw.			2		10			0	0		
Wisby	30.12	765.0	30.18	766.5	28.4	— 2.0	80	e.			2		10			0	0		
Sub-series.																			
Upsala	30.08	764.1	30.17	766.3	20.3	— 6.5	93	nw.	3.4	1.5			10		nne.	0	0		S. G. Fineman.
Swiss.																			
Geneva	27.88	708.1	29.37	745.9	34.2	1.2	82	wsw.			2		10			0	0	misty	The Observatory.
Turkish.																			
Constantinople			30.11	764.7	45.0	7.2	60	wsw.	8	3.5			3		sw.	0	0		The Observatory.
Valona			29.89	759.3	61.0	16.1		se.			1		10			0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.16	766.1	66.4	19.1	74	w.			1		2 k		w.	0.68	17.3		Prof. C. V. A. van Dyck
Samokov, Bulgaria	26.69	677.9			37.5	3.1	78	nw.			1	0	3 c		e.	0	0	clear	Fred L. Kingsbury.
United States.																			
Albany, New York	30.19	766.8	30.28	769.1	18	— 7.8	67	s.	16	7.2			10 8			inap.	inap.	cloudy	J. O. Barnes.
Alpena, Michigan	28.75	730.2	29.46	748.3	27	— 2.8	77	s.	16	7.2			10 8			0.03	0.8	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.97	634.2	30.09	764.3	21	— 6.1	64	ne.	4	1.8		0	0			0	0	clear	W. C. Barnes.
Assiniaboine, Ft., Montana	27.24	691.9	30.28	769.1	— 6	—21.1	65	sw.	8	3.6		0	0			0.05	1.3	clear	B. O. Lenoir.
Atlanta, Georgia	29.12	739.6	30.36	771.1	30.5	— 0.8	78	e.	14	6.3			10 ks		e.	0	0	cloudy	H. C. Smith.
Atlantic City, New Jersey	30.43	772.9	30.44	773.2	30	— 1.1	78	w.	18	8.0		4 c	0			0	0	fair	Jas. M. Watson.
Augusta, Georgia	30.25	768.3	30.45	773.4	31	— 0.6	72	e.	1	0.4		0	2 8			0	0	clear	John Healy.
Baltimore, Maryland	30.39	771.9	30.44	773.2	21	— 6.1	84	w.	4	1.8		7 cs	0	w.		0	0	fair	Geo W Felger.
Barnegat, New Jersey	30.40	772.1	30.42	772.7	22.0	— 5.6	73	w.	7	3.1		4 k	0			0	0	fair	G. A. Hill.
Behring Id., Behring Sea	29.33	745.0	29.35	745.5	29.6	— 1.3		ne.	14	6.3		0	9 n			0.04	1.0	cloudy	Leonard Steinegar.
Bennett, Fort, Dakota	28.58	725.9	30.32	770.1	3	—16.1	76	nw.	24	10.7		0	0			inap.	inap.	clear	A. Pritchard.
Benton, Fort, Montana	27.23	691.6	30.21	767.3	1	—17.2	72	calm	0	0		0	7 8			0.01	0.3	fair	S. Wheaton.
Billings, Montana	26.83	681.5			6	—14.4		w.	3	1.3		0	0			0	0	clear	T. Gibson.
Bismarck, Dakota	28.27	718.0	30.26	768.6	— 8	—22.2	61	nw.	18	8.0		0	0			inap.	inap.	clear	Cyrus Cramer.
Block Island, Rhode Island	30.44	773.2	30.47	773.9	28	— 2.2	64	sw.	14	6.3		0	7 ks		sw.	0	0	fair	J. T. Elker.
Boise City, Idaho	27.22	691.4	30.15	765.8	15	— 9.4	91	nw.	1	0.4			10 s			0.04	1.0	cloudy	B. E. Light.
Boston, Massachusetts	30.28	769.1	30.46	773.7	14.0	—10.0	71	sw.	5	2.2		4 cs	0	w.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.84	757.9	29.89	759.2	62.3	16.8	93	s.	9	4.0		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.03	737.3	29.83	757.7	30.4	— 0.9	95	s.	35	15.6			10 n		s.	0.04	1.0	light snow	W. Finn.
Buford, Fort, Dakota	28.15	715.0	30.35	770.9	—12	—24.4	54	w.	14	6.3		0	0			0.31	7.9	clear	F. A. Mellen.
Burlington, Vermont	29.84	757.9	30.15	765 8	10.3	—12.1	60	s.	24	10.7			10 s		s.	0	0	cloudy	G. O. Schaeffer.
Cairo, Illinois	29.54	750 3	29.90	761.0	41.8	5.4	94	s.	12	5.4			10 n		s.	0.12	3.0	light rain	W. H. Ray.
Cape Henry, Virginia	30.46	773.7	30.48	774.2	23	— 5.0	61	s.	11	4.9		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.44	773 2	30.47	773.9	32.0	0.0	78	sw.	22	9.8		2 cs	0	w.		0	0	clear	W. E. Smith.
Cape Mendocino, California	29.39	746.5	30.09	764.3	42	5.6	74	nw.	25	11.2		0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.29	769.4	30.31	769 9	44	6.7	83	e.	6	2.7		0	4 8			0	0	fair	F. W. Mixer.
Champaign, Illinois	28.95	735.3	29.82	757.4	29.8	— 1.2	74	sw.	20	8.9			10 8		sw.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.36	771.1	30.42	772.7	38	3.3	89	ne.	10	4.5		0	4 8		ne.	0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.53	750.0	30.42	772.7	25.0	— 3.9	73	e.	1	0.4			10 8		w.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.43	747.5	30.29	769.4	36.0	2.2	66	sw.	9	4.0			10 8		s.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.92	607.6	30.17	766.3	4.2	—15.4	57	nw.	2	0.9		0	0			0.01	0.3	clear	E. McGovern.
Chicago, Illinois	28.92	734.6	29.67	753.6	24.9	— 3.9	70	sw.	25	11.2			10 8			0.17	4.3	cloudy	J. Mitchell.
Chincoteague, Virginia	30.46	773.7	30.48	774.2	26	— 3.3	76	sw.	8	3.6		3 c	3 ks			0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.24	742.7	29.93	760.2	39	3.9	82	se.	16	7.2			10 8		s.	0.37	9.4	cloudy	R. B. Watkins.
Cleveland, Ohio	29.02	737.1	29.80	756.9	35.8	2.1	81	s.	22	9.8			10 n		w.	0.15	3.8	light rain	J. B. Newlin.
Coleman City, Texas	28.28	718.3	30.16	766.1	35	1.7	72	n.	28	12.5		3 cs	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.05	737.9	29.95	760.7	34	1.1	100	s.	8	3.6			10 n			0.08	2.0	light rain	D. Cuthbertson.
Concho, Fort, Texas	28.18	715.8	30.20	767.1	35.0	1.7	82	n.	20	8.9			10 8			0	0	cloudy	J. McGlone.
Davenport, Iowa	29.11	739.4	29.82	757.4	16	— 8.9	67	w.	20	8.9		0	0			0.10	2.5	clear	W. B. Lamar.
Davis, Fort, Texas	25.25	641.3	30.23	767.8	37	2.8	82	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.30	720.1	30.16	766.1	29	— 1.7	88	sw.	3	1.3			10 8		sw.	0	0	threatening	D. Moore.
Deadwood, Dakota	25.30	642.6	30.24	768.1	3	—16.1	79	sw.	6	2.7		0	0			0.12	3.0	clear	F. Willson.
Delaware Breakwater, Del	30.46	773.7	30.48	774.2	21	— 6.1	84	sw.	14	6.3			8 ks		sw.	c	0	cloudy	T. S. Townsend.
Denison, Texas	29.31	744.5	30.15	765.8	34.0	1.1	60	n.	16	7.2		0	0			0	0	clear	J. W. Byram.
Denver, Colorado	24.74	628.4	30.26	768.6	13.5	—10.3	61	s.	4	1.8		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.02	737.1	30.00	762.0	7	—13.9	52	nw.	20	8.9		0	0			0.02	0.5	clear	F. W. Conrad.
Detroit, Michigan	28.94	735.1	29.70	754.4	39.0	3.9	89	s.	28	12.5			10 8			0.20	5.1	cloudy	O. F. R. Wappenhans.
Dodge City, Kansas	27.59	700 8	30.34	770.6	9	—12.8	80	sw.	6	2.7		0	0			0	0	clear	V. P. Temple.
Dubuque, Iowa	28.95	735 3	29.72	754.9	13.5	—10.3	57	w.	20	8.9		3 cs	0	nw.		0.05	1.3	clear	J. Harvey Smith.
Duluth, Minnesota	28.74	730.0	29.56	750 8	16	— 8.9	83	nw.	36	16.1			10 8		nw.	0.03	0.8	cloudy	N. B. Conger.
Eagle Pass, Texas	29.19	741.4	30.03	762.7	53.0	11.7	60	nw.	1	0.4			10 8			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.36	644.1	30.32	770.1	2	—16.7	75	sw.	8	3.6		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.32	770.1	30.39	771.9	5.0	—15.0	76	w.	3	1.3		4 c	0	w.		0	0	fair	D. C. Murphy.
Elliott, Fort, Texas	27.41	696.2	30.34	770.6	16	— 8.9	53	nw.	24	10.7		0	0			0	0	clear	W. J. Gaudall.
El Paso, Texas	26.28	667.5	30.16	766.1	43.0	6.1	47	nw.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.04	737.6	29.81	757.2	33	0.6	88	s.	28	12.5			10 n			0.03	0.8	light snow	Peter Wood.
Escanaba, Michigan	28.59	726.2	29.31	744.5	28.0	— 2.2	96	w.	2	0.9			10 8			0.21	5.3	threatening	George Heathcote.
Fredericksburg, Texas	28.23	717.0	30.05	763 3	49	9.4	71	n.	16	7.2		2 cs	0			0	0	clear	Frank Halwegler.
Galveston, Texas	29.91	759.7	29.99	761.0	63	17.2	90	s.	20	8.9			10 ks		s	0.15	3.8	threatening	E. O'C. MacInernay.
Grand Haven, Michigan	28.82	732.0	29.53	750 0	37.2	2.8	72	s.	31	13.9			10 n			0.16	4.1	light rain	J. E. Mueller.
Grant, Fort, Arizona	25.26	641.6	30.16	766.1	30.5	2.5	66	calm	0	0		0	2 8			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.48	774.2	30.50	774 7	33	0.6	83	ne.	4	1 8		3 k	0	e.		0	0	clear	R. M. Crawford.
Helena, Montana	25.79	655 1	30.22	767.6	14	—10.0	83	calm	0	0			10 8			0	0	cloudy	N. C. Smith.
Henrietta, Texas																			J. P. Sherry.
Huron, Dakota	28.64	727.4	30.18	766.6	2.2	—16.6	45	nw.	17	7.6			10 n			0.01	0.3	light snow	S. W. Glenn.
Indianapolis, Indiana	28.99	736 3	29.83	757.7	37	2.8	89	s.	12	5.4			10 n		s.	0.20	5.1	light rain	J. F. Jirdinston.
Indianola, Texas	29.89	759 2	29.92	760.0	62.0	16.7	93	w.	11	4.9			10 8			0.32	8.1	cloudy	I. A. Reed.
Jacksboro, Texas	28.90	734.0	30.14	765 5	31	— 0.6	57	n.	15	6.7		3 ck	0	nw.		0	0	clear	D. J. Carr.
Jacksonville, Florida	30.30	769.6	30.35	770.9	39	3.9	89	calm	0	0		2 cs	fg.			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.64	702 0	30.33	770.4	— 5	—20.6	65	sw.	4	1.8		0	0			0.01	0.3	clear	A. Schneider.
Keokuk, Iowa	29.22	742.2	29.92	760.0	14.0	—10.0	70	w.	20	8.9		0	0			0 18	4.6	clear	F. Z. Gosewisch.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.18	766.6	30.20	767.1	63.0	17.2	90	ne.	10	4.5		.....	8 ks	.....	e.	0	0	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.49	774.4	30.51	774.9	25	— 3.9	73	w.	4	1.8		hz.	0	.....	.....	0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.17	740.9	30.25	768.3	22.5	— 5.3	90	ne.	4	1.8		.....	10s; fg	.....	.....	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	28.76	730.5	29.60	751.8	17	— 8.3	83	w.	14	6.3		.....	10 n	.....	.....	0.12	3.0	light snow	S. C. Emery.
Leavenworth, Kansas	29.22	742.2	30.18	766.6	11	—11.7	80	nw.	18	8.0		0	0	.....	.....	0.08	2.0	clear	A. W. Browne.
Lewiston, Idaho	29.41	747.0	30.28	769.1	24.5	— 4.2	80	e.	3	1.3		.....	10 s	.....	.....	0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.65	753.1	29.98	761.5	45	7.2	83	nw.	9	4.0		.....	10 n	.....	.....	0.71	18.0	light rain	W. U. Simons.
Los Angeles, California	29.70	754.4	30.10	764.5	48	8.9	86	ne.	6	2.7		.....	10 s	.....	e.	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.32	744.7	29.91	759.7	41	5.0	65	s.	20	8.9		.....	10 s	.....	s.	0.40	10.2	cloudy	L. M Dey.
Lynchburg, Virginia	29.68	753.9	30.40	772.1	14	—10.0	80	calm	0	0		0	4 s	.....	.....	0	0	fair	Louis Dunne.
Mackinaw City, Michigan	28.67	728.2	29.37	746.0	27.0	— 2.8	88	se.	7	3.1		.....	10 s	.....	s.	0.21	5.3	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.46	773.7	30.47	773.9	30.0	— 1.1	56	ne.	11	4.9		0	0	.....	.....	0	0	clear	William Daly.
Madison, Wisconsin	28.51	724.1	29.60	751.8	16	— 8.9	83	w.	16	7.2		0	0	.....	.....	0.05	1.3	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.48	647.2	30.03	762.7	10	—12.2	60	w.	2	0.9		.....	10 k	.....	.....	0.02	0.5	cloudy	F. Burke.
McKavett, Fort, Texas	27.84	707.1	30.23	767.8	42	5.6	76	n.	12	5.4		0	5 s	.....	.....	0	0	fair	J. E. Thatcher.
Marquette, Michigan	28.56	725.4	30.34	770.6	24	— 4.4	88	nw.	8	3.6		.....	10 n	.....	.....	0.10	2.5	light snow	J. Gilligan.
Memphis, Tennessee	29.60	751.8	29.96	761.0	47	8.3	100	w.	19	8.5		.....	10 n	.....	.....	0.45	11.4	light rain	D. T. Flannery
Milwaukee, Wisconsin	28.71	729.2	29.51	749.5	23	— 5.0	88	sw.	36	16.1		0	1 s	.....	sw.	0.07	1.8	clear	W. Line
Missoula, Fort, Montana	26.78	680.2	30.24	768.1	17	— 8.3	70	calm	0	0		0	7 s	.....	.....	0.02	0.5	fair	I. H. Young.
Mobile, Alabama	30.13	765.3	30.17	766.3	50.5	10.3	90	s.	4	1.8		3cs; ck	0	w.	.....	0	0	clear	C. A. Read.
Montgomery, Alabama	30.00	762.0	30.24	768.1	36.8	2.7	69	se.	4	1.8		0	7 k	w.	0	0	0	fair	J. B. McLauchlin
Moorhead, Minnesota	28.94	735.1	30.05	763.3	—12	—24.4	100	n.	30	13.4		.....	10 n	.....	n.	0.12	3.0	light snow	H. Bessant.
Morgantown, W. Virginia	29.01	736.8	30.07	763.8	38.0	3.3	89	sw.	11	4.9		.....	10 n	.....	.....	0.20	5.1	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H	23.56	598.4	30.19	766.8	9.0	—12.8	30	sw.	70	31.2		0	6 s	.....	sw.	0	0	fair	S. W. Beall.
Nashville, Tennessee	29.47	748.5	30.08	764.0	36.5	2.5	89	se.	20	8.9		.....	10 n	.....	s.	0.24	6.1	sleeting	L. N. Jesunofsky.
New Haven, Connecticut	30.31	769.9	30.43	772.9	4	—15.6	96	n.	1	0.4		10 c	fg.	.....	.....	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.43	772.9	30.48	774.2	7	—13.9	76	calm	0	0		10 ck	fg.	sw.	.....	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.08	764.0	58.5	14.7	76	se.	11	4.9		4 cs	0	w.	.....	0	0	fair	L. Dunne.
Newport, Rhode Island	30.41	772.4	30.46	773.7	24.0	— 4.4	73	s.	6	2.7		4 k	0	sw.	.....	0	0	fair	W. McGillivray.
New York, New York	30.27	768.8	30.46	773.7	22	— 5.6	87	s.	8	3.6		6 cs	0	s.	.....	0	0	fair	J. B. Merrill.
Norfolk, Virginia	30.47	773.9	30.50	774.7	24	— 4.4	73	s.	4	1.8		0	0	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.16	689.9	30.28	769.1	9.6	—12.4	72	nw.	16	7.2		0	0	.....	.....	0.01	0.3	clear	E. F. Brady.
Olympia, Washington T'y.	30.19	766.8	30.23	767.8	33.0	0.6	78	calm	0	0		0	5 s	.....	.....	0	0	fair	J. Dascomb.
Omaha, Nebraska	28.88	733.5	30.15	765.8	7.1	—13.8	76	nw.	12	5.4		.....	10 s	.....	.....	inap.	inap.	cloudy	A. Pollak.
Ooglaamie, Alaska	29.97	761.2	29.99	761.7	—38.6	—39.2	.....	nnw.	10	4.5		0	0	.....	.....	0	0	clear	P. H. Ray.
Oswego, New York	29.62	752.3	29.97	761.2	26.0	— 3.3	70	s.	16	7.2		.....	10 n	.....	.....	inap	inap.	light snow	J. G. Linsley.
Palestine, Texas	29.42	747.3	30.00	762.0	60.0	15.6	87	w.	16	7.2		.....	10 n	.....	w.	0.29	7.4	light rain	L. M. Pindell.
Pensacola, Florida	30.17	766.3	30.20	767 1	57.2	14.0	74	se.	19	8.5		7 cs	0	sw.	.....	0	0	fair	M. McGauran.
Philadelphia, Pa	30.34	770.6	30.46	773.7	19.5	— 6.9	84	w.	3	1.3		3 cs	0	w.	.....	0	0	clear	T. T. Townsend.
Pike's Peak, Colorado	17 33	440.2	30.03	762.7	—16	—26.7	65	nw.	.....	.....	7	0	0	.....	.....	0	0	clear	H. Hall.
Ploche, Nevada	24.03	610.4	30.23	767.8	13	—10.6	70	nw.	5	2.2		0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.18	741 2	30.03	762.7	32.0	0.0	88	s.	8	3.6		.....	10 n	.....	.....	0.15	3.8	sleeting	W. A. Reid.
Poplar River, Montana	27.89	708 4	30.24	768 1	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.13	765.3	30.14	765.5	61.0	16.1	87	se.	24	10.7		0	2 s	.....	se.	0	0	clear	H. B. Boyer.
Port Huron, Michigan	28.91	734.3	29.64	752.8	34.3	1.3	82	s.	29	13.0		.....	10 s	.....	.....	0.16	4.1	cloudy	W. O. Bailey.
Portland, Maine	30.34	770.6	30.39	771.9	12.0	—11.1	61	nw.	4	1.8		5 cs	fg.	w.	.....	0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.07	763.8	30.14	765.5	38.0	3.3	89	calm	0	0		.....	10 s	.....	.....	inap.	inap.	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	36	2.2	79	ne.	.....	.....	4	0	hz.	.....	.....	0	0	clear	F. S. Coburn.
Prescott, Arizona	24.74	628 4	30.12	765.0	20	— 6.7	76	sw.	2	0.9		0	0	.....	.....	0	0	clear	W. H. Clendenon.
Provincetown, Mass	30.44	773.2	30.47	773.9	20	— 6.7	70	sw.	10	4.5		3 cs	4 s	.....	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.26	768.6	30.27	768.8	51	10.6	83	ne.	9	4.0		hz.	1 s	.....	e.	0	0	clear	W. J. Evans.
Red Bluff, California	29.75	755.6	30.12	765.0	31	— 0.0	100	s.	5	2.2		.....	fg.	.....	s.	0	0	dense fog	J. R. Williams.
Rochester, New York	29.16	740.7	29.87	758.7	28	— 2.2	77	s.	22	9.8		.....	10 n	.....	s.	0.03	0.8	sleeting	E. W. McGann
Roseburg, Oregon	29.71	754.6	30.28	769.1	33	0.6	88	w.	2	0.9		.....	fg.	.....	.....	0	0	dense fog	J. J. Nanry.
Sacramento, California	30.04	763.0	30.12	765.0	37.8	3.2	89	s.	7	3.1		.....	10 s	.....	nw.	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.33	745.9	29.97	761.2	26.7	— 2.9	88	w.	21	9.4		.....	10 s	.....	w.	0.08	2.0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.72	754.9	29.76	755.9	14	—10.0	100	ne.	.....	.....	2	.....	10 n	.....	.....	0.02	0.5	light snow	A. P. Leavitt.
St. Paul, Minnesota	28.74	730.0	29.69	754.1	10.0	—12.2	80	w	21	9.4		.....	10 s	.....	w.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.10	739.1	30.08	764.0	—17	—27.2	100	nw.	24	10.7		0	0	.....	.....	0.02	0.5	clear	C. B Dilley.
Salt Lake City, Utah	25.79	655.1	30.36	771.1	17	— 8.3	56	calm	0	0		0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.24	742.7	29.97	761.2	55.5	13.1	86	ne.	0	2.7		10 cs	0	.....	.....	0	0	cloudy	T. J. Kenan.
San Diego, California	29.99	761.7	30.06	763.5	51.3	10.7	79	e.	5	2.2		.....	10 s	.....	.....	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.04	737.6	29.76	755.9	36	2.2	79	sw.	25	11.2		.....	10 s	.....	.....	0.01	0.3	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.43	772.9	30.46	773.7	21.0	— 6.1	70	sw.	12	5.4		3 c	0	.....	.....	0	0	clear	B. A. Blundon.
San Francisco, California	30.01	762.2	30.08	764.0	39	3.9	94	nw.	7	3.1		0	fg.	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.14	587.7	30.19	766.8	22	— 5.6	58	se.	3	1.3		0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.30	769.6	30.40	772.1	38	3.3	72	n.	4	1.8		0	0	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.42	671.1	30.28	769.1	1	—17.2	72	calm	0	0		0	0	.....	.....	0.01	0.3	clear	A. L. Mathews.
Shreveport, Louisiana	29.66	753.4	29.91	759.7	60	15.6	100	s.	3	1.3		.....	10 s	.....	.....	0.08	2.0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.91	734.3	30.24	768.1	25.5	— 3.6	66	n.	34	15.2		0	0	.....	.....	0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.24	615 7	30.10	764.5	39.0	3.9	65	nw.	6	2.7		4 k	2 s	w.	.....	0	0	fair	N. D. Lane.
Sitka, Alaska	29.91	759.7	29.98	761.5	39.1	3.9	82	e.	8	3.6		.....	10 s	.....	e.	0.11	2.8	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.62	752.3	30.12	765.0	31.5	— 0.3	78	n	13	5 8		0	5 s	.....	n.	0.22	5.6	fair	J. B. Campbell.
Smithville, North Carolina	30.41	772.4	30.45	773.4	35	1.7	79	ne.	6	2.7		0	1 s	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.10	713.7	30.24	768.1	24	— 4.4	92	calm	0	0		.....	10 s	.....	.....	0	0	cloudy	H. Clifford.
Springfield, Illinois	29.18	741.2	29.91	759 7	22.5	— 5.3	80	w.	17	7.6		.....	8 s	.....	w.	0.10	2.5	cloudy	T. B. Jennings.
Springfield, Missouri	28.60	726.4	30.12	765.0	20.5	— 6.4	70	nw.	18	8.0		0	2 s	.....	nw.	0.30	7.6	clear	J. R. Bryce.
Starkville, Miss	29.57	751.1	30.07	763.8	42	5.6	82	s.	15	6.7		.....	10 s	.....	s.	0	0	cloudy	C. Dill.
Stevenson, Fort, Dakota	28.24	717.3	30.30	769.6	—10	—23.3	57	nw.	21	9.4		0	0	.....	.....	inap.	inap.	clear	W. Burrows.
Stockton, Fort, Texas	27.02	686.3	30.16	766.1	39	3.9	57	n.	16	7.2		0	0	.....	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass	30.40	772.1	30.46	773.7	24.0	— 4.4	73	sw.	25	11.2		.....	10 k	.....	sw.	0	0	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.26	692.4	30.09	764.3	33.5	0.8	94	s.	.....	.....	1	0	2 s	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	28.99	736.3	29.73	755.1	37	2.8	82	sw.	28	12.5		.....	10 s	.....	sw.	0.20	5.1	threatening	A. Buell.
Tucson, Arizona	27.60	701.0	30.10	764.5	45	7.2	76	calm	0	0		.....	5 ks	.....	.....	0	0	fair	J. L. Whiteside.
Umatilla, Oregon	29.87	758.7	30.26	768.6	32	0.0	88	se.	1	0.4		0	6 s	.....	.....	0	0	fair	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	28.8	— 1.8	59	n.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.72	754.9	29.98	761.5	59.3	15.2	79	s.	12	5.4		.....	10 n	.....	s.	0.01	0.3	light rain	James Kenealy.
Visalia, California	29.72	754.9	30.12	765.0	34.7	1.0	95	s.	2	0.9		.....	10 s	.....	.....	0	0	cloudy	O. D. Stewart
Washakie, Fort, Wyoming	24.42	620.3	30.21	767.3	—5.5	—20.8	82	calm	0	0		0	0	.....	.....	inap.	inap.	clear	T. M. Ambler.
Washington, D. C	30.30	769.6	30.42	772.7	20.3	— 6.5	79	s.	11	4.9		.....	9 s	.....	sw.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.16	664.5	30.30	769.6	5.5	—14 7	76	calm	0	0		0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.62	752.3	30.24	768.1	23.5	— 4.7	88	se.	4	1.8		.....	10 s	.....	.....	0	0	threatening	B. F. Hough.
Wilmington, N. Carolina	30.40	772.1	30.46	773.7	30	— 1.1	78	ne.	5	2.2		.....	0	.....	.....	0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.66	651.8	30.20	767.1	11.5	—11.4	64	ne.	8	3.6		0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.74	730.0	30.16	766.1	5	—15.0	49	nw.	30	13.4		.....	10 s	.....	.....	0.09	2.3	cloudy	J. H. Attfield.
Yuma, Arizona	29.85	758.2	30.00	762.0	45.1	7 3	00	n.	2	0.9		3 cs	0	w.	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.02	559.3	.....	.....	54.0	12.2	79	sw.	2	0.9		.....	9ks; 8	.....	nw.	0.37	9.4	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I	30.10	764.5	30.11	764.8	71	21.7	95	calm	0	0		.....	10 n	.....	.....	1.15	29.2	raining	Robert Johnston.
Paramaribo, S. A	30.04	763.0	30.04	763 0	75	23.9	80	e	.....	.....	2	0	4 c	.....	e.	0.600	15.2	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.40	746.7	29.95	761.0	78	25.6	89	s.	.....	.....	1	5 c	fg.	calm	.....	0	0	fair	Francisco J. Olsneroz.
Rivas, Nicaragua, C. A	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.03	752.6	29.09	754.1	40	4.4	82	s.	.....	.....	2	.....	6 ks	.....	.....	0	0	fair	W. J. Fisher.
St. Thomas, W. I	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Wallee.
York Factory H A	30.03	762.7	30.10	764.5	—31.0	—35.0	.....	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	Fortescue & Wood

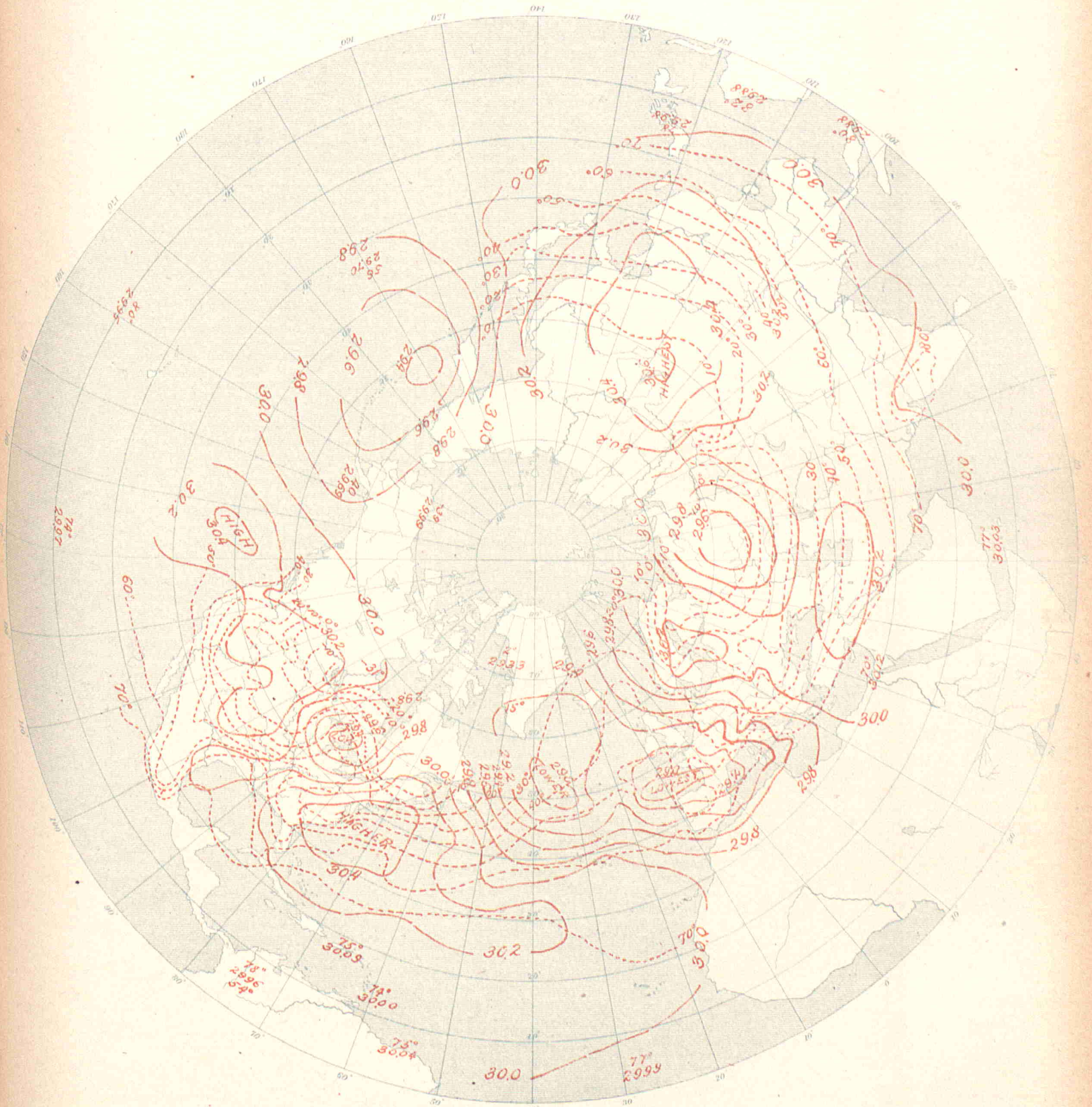
VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
BRITISH NAVAL.																		
H. M. S. Amethyst, S. 43° 37′, W. 63° 12′ †	30.13	765.3	61	16.1	70	calm			0		1					2	sse.	blue sky.
H. M. S. Audacious, N. 14° 26′, E. 120° 37′	29.86	758.4	80	26.7	82	nw.			2		2	n.						d. clouds.
H. M. S. Boadicea, S. 27° 28′ E. 80 29′	30.13	765 3				sse.			5–6		5					5	s.	d. clouds.
H. M. S. Carysfort, N. 35° 55′, E. 14° 30′	29.57	751.1	65	18.3	94	se.			2–4		10	ese.				3	ese.	misty.
H. M. S. Champion, Singapore, Malay Peninsula	29.88	758.9	80	26.7	95	calm			0		2					1	ne.	blue sky.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.33	770.4				calm			0		10							overcast.
H. M. S. Comus, N. 17° 06′, W 105° 50′	30.03	762 7	72	22.2	90	ne.			1–2		3					2	ne.	raining.
H. M. S. Constance, N. 3° 45, W. 27° 40′	29.89	759 2	77	25.0		var.			1		10					2	nne.	showery
H. M. S Curacoa, Yokohama, Japan	30.13	765.3	44.5	6.9	67	calm			0		0							blue sky.
H. M. Dock-Yard, Bermuda, W. I.	30.42	772.7	54	12.2	73	nne.			3–4		6	nne.						squally.
H. M. S. Dryad, N. 13° 20′ E. 90° 30′	29.99	761 7	71	21.7		ne.			3–4		0					4	nne.	blue sky.
H. M. Fawn. S. 29° 52′, E. 120 36′	30.01	762.2	67.5	19.7	90	se.			4		5					3	se.	d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.16	766.1	46	7.8	97	n.			1		10							raining.
H. M. S. Fox Hound, Labuan Island, Borneo	29.88	758.9	81.5	27.5		ne.			2		3	s.						d. clouds.
H. M. S. Gannet, S. 36° 42′, W. 73° 06′	29.98	761.5	62	16.7	88	sw.			1		3							d. clouds.
H. M. S Heroine, S. 6° 30′, W. 29° 50′	29.91	759.7	80	26.7	82	se.			4		3	ese.				2	ese.	d. clouds.
H. M. S. Iron Duke, N. 13° 01′, E. 52° 14′	30.03	762.7	77	25.0	81	n.			4–5		3	n.				4	ene.	d. clouds.
H. M. S. Kingfisher, Callao Bay, Peru	30.00	762.0	67	19.4		se.			1		7							misty.
H. M. S. Lark, S. 34° 30′, E. 173° 30′	30.03	762.7	67.3	19.6	87	sse.			2		0					1	s.	blue sky.
H. M. S. Magpie, N. 34° 41′ E. 135° 12′	30.22	767.6	43.5	6.4	90	calm			0		10							raining.
H. M. S. Monarch, Port Said, Egypt	30.12	765.0	70	21.1	75	e.			1		0							blue sky.
H. M. S. Mutine, —. 0° 00′, W. 118° 13′	29.95	760.7	73.5	23.1		sse.			3		4					2	sse.	d. clouds.
H. M. S. Rocket, Valdivia, Chili	30.00	762.0	64	17.8	100	ssw.			1		1	ssw.						blue sky.
H. M. S. Superb, N. 36° 36′, E. 28° 20′ *	30.18	766.0	60	15.6	?	sse.			2		4	s.						d. clouds.
H. M. S. Swiftsure, S. 7° 50′, W. 79° 34′	29.97	761.2	67	19.4	94	s.			1		6					2	s.	foggy.
H. M. S. Sylvia, Point Angosto	29.84	757.9	48.2	9.0	98	var.			2		10							raining.
H. M. S. Tourmaline, Bombay, India	29.98	761.5				w.			2		0							blue sky.
H. M. S. Woodlark, Mohammera, Turkey in Asia	29.98	761 5	59.5	15.3	65	nw.			1		3	nw.						d. clouds.
PORTUGUESE NAVAL																		
Tamega, Macao, China	30.16	766.0	68.0	20.0	72	w.			5		5			0	0			foggy.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla *	30.23	767.8	60	15.6	70	se.	9	4.0			8		se.	0	0			fair.
Navy Yard, Portsmouth, N. H*	30.45	773.4	5	—15.0	?	w.	4	1.8			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	30.09	764.3	38.5	3.6	60	n.			1		2		w.	0	0			clear.
Adams, Sitka, Alaska†	30.00	762.0	35	1.7	90	ene.			3		2		e.					fair.
Alaska, Mare Island, Cal.	30.02	762.5	47	8.3	77	ene.			4		10		ne.	0	0			foggy.
Alliance, N. 19° 23′, W. 77° 11	30.11	764.8	76	24.4	86	e.			2–3		2			0	0	sm'h		clear.
Ashuelot, Shanghai, China	30.35	770.9	47	8.3	48	ese.			1		5		nw.					fair.
Brooklyn, Keel Point, Patagonia*	29.83	757.7	54	12.2	86	s.	12	5.4			10		s.	0	0	sm'h		cloudy
Colorado, New York, N. Y.	30.64	778.2	21	— 6.1	100	sw.	2	0.9			2?		w.	0	0			overcast.
Enterprise, N. 38° 47′, W. 56° 15′*	30.19	766.8	44	6.7	91	nnw.			7		8		nw.			r'gh	n.	cloudy
Essex, Callao, Peru	30.01	762.2	66	18.9	94	se.			0–1		10							misty.
Franklin, Norfolk, Va.	30.49	774.4	22	— 5.6	?	ssw.	6	2.7			1		calm	0	0			clear.
Galena, Montevideo, Uruguay*	29.85	758.2	68	20.0	90	se.			3		5		ne.			sm'h		fair.
Hartford, S. 20° 17′, W. 76° 25′*	29.97	761.2	69	20.6	84	e.			3		2					sm'h	s.	clear.
Independence, Mare Island, Cal.	30.10	764.5	36	2.2	70	e.			1		10			0	0			cloudy.
Iroquois, Callao, Peru	30.00	762.0	66	18.9	90	se.			2		10							foggy.
Jamestown, Boston, Mass.	30.45	773.4	12	—11.1	100	w.			2		10							cloudy.
Juniata, Gibralter, Mediterranean*	29.50	749.3	62	16.7	88	wnw.			5		8		ne.	h'vy	h'vy	r'gh	w.	fair.
Kearsarge, Port of Spain, Trinadad, W. I.	29.99	761 7	77	25.0	95	calm			0		2		ese.					fair.
Lackawanna, N. 11° 55′ W. 133° 30′*.	29.97	761.2	74	23.3	85	ne.			4		5		ne.			sm'h	ne.	fair.
Lancaster, Genoa, Italy.	29.48	748.8	45	7.2	100	n.			6		10		n.					squally.
Michigan, Erie, Pa.	29.71	754.6	37	2.8	90	sw.			5		10		s.					raining.
Minnesota, New York, N. Y.	30.45	773.4	20	— 6.7	100	sw.	1	0.4			5							misty.
Monocacy, Nagasaki, Japan			48	8.9	100	n.			2		10		nw.					cloudy.
New Hampshire, Newport, R. I.	30.44	773.2	25	— 3.9	?	wsw.			2		5		sw.			sm'h		fair.
Nipsic, Lisbon, Portugal	29.53	750.0	60	15.6	59	nw.			5		5		w.					fair.
Onward, Callao, Peru*†	30.10	764.5	65	18.3	94	sse.			2		10		n.					cloudy.
Palos, Tientsin, China*	30.39	771.9	22	— 5.6	100	ese.			3		8		calm					fair.
Pensacola, Panama, U. S. C*	29.88	758.9	74	23.3	85	nw.	8	3.6			0			0	0	sm'h		clear
Portsmouth, Boston, Mass	30.48	774.2	12	—11.1	?	wsw.			2		5		wsw.					fair.
Powhatan, Boston, Mass.	30.46	773 7	11	—11.7	79						2							fair.
Quinnebaug, Genoa, Italy.	29.51	749.5	43	6.1	83	nne.			6		10		calm					rainy.
Ranger, N. 22° 09′, W. 120° 14′*	30.06	763.5	63	17.2	78	nne.			2		2		ne.	0	0	sm'h		clear.
Richmond, Hong-Kong, China*	30.07	763.8	66	18.9	83	calm			0		0			0	0			clear.
Saratoga, New York, N. Y	30.49	774 4	20	— 6.7	70	ssw.			2		5		sw.	0	0			fair.
St. Louis, League Island, Pa.	30.48	774.2	11	—11.7	100	ssw.			2		2			0	0			clear.
Tennessee, Basse-Terre, St. Kitts, W. I*	30.08	764.6	79	26.1	95	ene.	16	7.2			2			0.02	0.5	mod.	ene.	fair.
Vandalia, Samana Bay, San Domingo, W. I*	30.12	765.0	77	25.6	80	ne.			2		8		e.					fair.
Wabash, Boston, Mass.	30.52	775.2	11	—11.7	60	sw.	13	5.8			5		sw.	0	0			fair.
Wachusetts, Mare Island, Cal.	30.11	764.8	33	0.6	100	e.			4		10		calm					foggy.
Wyandotte, Washington, D. C	30.23	767.8	36	2.2	70	sw.			5		10		w.	0	0			cloudy.
Yantic, Aspinwall, U. S. C.	30.05	763.3	77	25.0	95	n.			3		5					long	n.	fair.
MERCHANT MARINE.																		
S. S. Grecian, Liverpool, Eng*	29.29	744.0	48	8.9	85	ene.			3		10			10 h'r	10 h'r			hazy.
S. S. Nova Scotian, Halifax, N. S	30.19	766.8	19	— 7.2		nw.			2		0							clear.
S. S. Scandinavian, N. 54° 57′, W. 15° 29′	29.25	742 9	49	9.4		e.			4		3		ese.	0	0	mod.	e.	d. clouds.
S. S. British Crown, N. 49° 53′, W. 21° 39′ †	29.40	746.7	48	8.9		wsw.			2		10			0	0	h'vy	wsw.	overcast
S. S. Indiana, Liverpool, Eng			42	5.6	83	e.			3		10		e.					foggy.
S. S. Lord Clive, N. 44° 00′, W. 55° 00′						wnw.			6		9		wnw.	snow	snow	mod.	w.	snowy.
S. S. Lord Gough, N. 51° 00′, W. 18° 18′	29.36	745.7	52	11.1		nnw.			4		3		nnw.	0	0	mod.	w.	fair.
S. S. Ohio, Philadelphia, Pa			14	—10.0	82	s.			2		6?		sw.					clear. ?
S. S. Pennsylvania, N. 48° 37′, W. 40° 08′ †	29.03	737 3	38	3.3	100	nw.			6		6		wnw.	0	0	h'vy	nw.	squally.
S. S. Jason, N. 45° 17′, W. 41° 50′			59.0	15.0		wnw.			6		7 n					7	wnw.	gloomy.
S. S. Stella, N. 49° 20′ W. 40° 30′	28.98	736.1	38	3.3		nw.			8		8		nw.	10 h'r	10 h'r	7	nw.	squally.
S. S. Bolivia, N. 55° 00′, W. 10° 31′	29.34	745.2	47	8.3	92	ese.			4		10		ese.	shr's	shr's	long	ese.	overcast.
S. S. Dorian, Leghorn, Italy*	29.32	744.7				e.			5		8		e.	6 h'r	6 h'r			threatening
S. S. Antillas, N. 18° —′ W. 73° —†	30.10	764.5				e.			1		1		e.			sm'h		
S. S. Ambrose, Amazon River, Brazil†	30.05	763.3	80	26.7										1 h'r	1 h'r			fine.
S. S. Auckland, S. 52° 21′, W. 54° 01′	29.37	746.0	43	6.1	75	sw.			5		7							squally.
S. S. Caldew, S. 24° 50′, E. 64° 02′	30.00	762.0	80	26.7	78	ene.			4		8							d. clouds.
S. S. City of Agra, S. 47° 50′, W. 46° 42′	29.47	748.5	45	7.2	84	wsw.			5		3							squally.
S. S. Gordon Castle, N. 37° 27′, E. 2° 25′	29.29	744 0	61.5	16.4	88	w.			6–7		5					high		d. clouds.
Inchkeith, N. 17° 36′, E. 80° 02′	30.05	763.3	75.4	24.1	72	ne.			4		3							d. clouds.
St. Kilda, N. 35° 15′ W. 47° 00′	29.96	761 0	63.5	17.5	73	n.			7		7							raining.
S. S. Scotia, N. 33° 47′, E. 23° 56′	30.03	762.7	66.9	19.4	64	se.			4		2							blue sky.
S. S. Mexico, N. 23° 56′ W. 108° 35′†	30.08	764.0	70	21.1	80	nw.			1		2		nw.					
S. S. Gallia, N. 41° 42′, W. 54° 38′	30.19	766.8	38	3.3	81	nw.			6		8		nw.	0	0	mod.	n.	fair.
S. S. Marathon, N. 43° 50′, W. 52° 45′	30.10	764.5	31	— 0.6		wnw.			5		8		wnw.	snow	snow	r'gh	wnw.	squally.
S. S. Parthia, N. 47° 20′, W. 37° 47′	29.14	740.1	45	7.2	92	w.			9		5			8 h'r	8 h'r	cl'd	wnw.	raining.
S. S. Colima, Chesapeake Bay						s.			3		1		calm	0	0	sm'h	s.	clear.
S. S. Canada, N. 44° 50′, W. 50° 56′	29.98	761.5	25	— 3.9		nw.			5	ck?	0			snow	snow		nw.	snowing?
S. S. Labradore, N. 49° 39′, W. 25° 00′*†	29.45	748.0	46.4	8.0		s.			3		5		w.	0	0	h'vy	w.	fair.
S. S. Perire, N. 41° 55′, W. 58° 30′	30.24	768.2	30.2	— 1		nw.			5		10		nw.	snow	snow	h'vy	nw.	covered.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
Merchant Marine.—Continued.																		
S.S. Ville de Marseilles, N. 37° 29′, W. 21° 30′*†	29.90	759.4	61	16.1	.....	wsw.	.....	.....	5	.....	7	.....	w.	0	0	h'vy	nw.	hazy.
S.S. Abyssinia, N. 40° 45′, W 66° 09′	30.47	773.9	36	2.2	80	nw.	.....	.....	3	.....	2	.....	nw.	snow	snow	r'gh	nw.	fine.
S.S. Arizona, N. 46° 33′, W 48° 14′	29.71	754.6	25	--3.9	.....	wnw.	.....	.....	5	.....	8	.....	nw.	snow	snow	mod.	nw.	squally.
S.S. Wisconsin, N. 48° 30′, W. 39° 50′	.....	.....	39	3.9	.....	nw.	.....	.....	9	.....	8	.....	nw.	10 h'r	10 h'r	r'gh	nw.	squally.
S.S. Wyoming, Liverpool, Eng	.....	.....	.....	.....	.....	se.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	foggy.
S.S. Bohemia, Hamburg, Germany*†	29.82	757 4	.....	.....	.....	e.	.....	.....	3	.....	1	.....	.....	0	0	.....	.....	fair.
S.S. Rugia, N. 44° 46′, W. 48° 25′	29.76	755.9	33	0.6	.....	nw.	.....	.....	8	.....	10	.....	wnw.	rain	rain	6	wnw.	snowy.
S.S. Silesia, N. 49° 28′, W. 17° 26′†	29.44	747.8	50.0	10.0	.....	n.	.....	.....	6	.....	10	.....	.....	12 h'r	12 h'r	5–6	s;nw.	cloudy.
S.S. Vandalia, Hamburg, Germany	29.82	757.4	25.7	—3.5	.....	ene.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	fair.
S.S. Wieland, N. 40° 54′, W. 67° 31′	.....	.....	.....	.....	.....	nw.	.....	.....	3	.....	5	.....	nw.	hail	hail	mod.	w.	fine.
S.S. Mentmore, N. 38° 03′, W. 71° 29′*	30.54	775.7	.....	.....	.....	sse.	.....	.....	4	.....	2	.....	w.	0	0	sm'h	w.	clear.
S.S. Archimedes, S. 18° 36′, W. 38° 33′	29.87	758.7	.....	.....	.....	nne.	.....	.....	3	.....	4	.....	ne	1 h'r	1 h'r	light	ne.	fine.
S.S. Hevelius, N. 40° —′, W. 12° 30′†	29.50	749.3	54	12.2	.....	wnw.	.....	.....	9	.....	6?	.....	wnw.	0	0	h'vy	wnw.	cloudy.†
S.S. Ptolemy, N 21° 48′, W. 23° 27′	30.14	765.5	69.3	20.7	85	ene.	.....	.....	0	c	8 kn	s.	nw.	0.60	15.2	.....	nw.	d. clouds.
S.S. Sirius, N. 16° 30′, W. 54° 40′ *	29.99	761.7	.....	.....	.....	ne.	.....	.....	4	.....	1	.....	ne.	1 h'r	1 h'r	mod.	var.	clear.
S.S. Bulgarian, N. 42° 39′, W. 66° 37′*	30.59	777.0	.....	.....	.....	n	.....	.....	1	.....	.....	.....	.....	0	0	light	nnw.	
S.S. Colorado, New York, N.Y†	30.45	773.4	20	—6.7	.....	sw.	.....	.....	4	.....	4?	.....	sw.	0	0	.....	.....	cloudy†
S.S. Rio Grande, N. 33° 30′, W. 74° 58′†	30.58	776.7	54	12.2	.....	sse.	.....	.....	2	.....	9	.....	s.	0	0	long	ne.	hazy.
S.S. San Marcos, N. 38° 10′, W. 74° 15′	30.48	774.2	38	3.3	.....	nnw.	.....	.....	5	.....	.....	.....	nnw.	0	0	.....	.....	
S.S. Archimede, N. 38° 33′, E. 13° 17′†	29.48	748.8	66	18.9	74	sse.	.....	.....	6	.....	3?	.....	se.	0	0	mod.	sse.	cloudy*
S.S. Hermod, N. 43° 03′, W. 54° 46′†	30.12	765.0	29	—1.7	.....	nw.	.....	.....	7	.....	9	.....	nw.	snow	snow	r'gh	wnw.	squally.
S.S. Alleghany, Boston, Mass †	30.48	774.2	10	—12.2	.....	w.	.....	.....	2	.....	5	.....	s.	0	0	.....	.....	fair.
S.S. Glenfyne, N. 36° 15′, W. 71° 04′	29.61	752.1	.....	.....	.....	wsw.	.....	.....	3	.....	10	.....	nw.	0	0	mod.	nnw.	
S.S. Brooklyn, N. 43° 01′, W. 60° 07′ *	30.15	765.8	30	—1.1	.....	wsw.	.....	.....	4	.....	.....	.....	w.	0	0	.....	w.	cloudy.
S.S. Dominion, N. 47° 06′, W. 50° 49′*†	29.78	756.4	27	—2.8	.....	w.	.....	.....	6	.....	5?	.....	w.	16 h'r	16 h'r	high	w.	cloudy†
S.S. Chalmette, N. 24° 20′, W. 82° 37′†	30.22	767.6	70	21.1	.....	e.	.....	.....	6	.....	4	.....	e.	0	0	sm'h	e.	fair.
S.S. Lone Star, N. 31° 00′, W. 80° 25′†	30.29	769.4	62	16.7	.....	sse.	.....	.....	2	.....	1	.....	s.	0	0	small	se.	clear.
S.S. New York, N. 34° 35′, W. 75° 15′ †	30.47	773.9	51	10.6	.....	se.	.....	.....	5	.....	8	.....	s.	0	0	r'gh	e.	cloudy.
S.S. Denmark, N. 40° 47′, W. 61° 47′ †	30.33	770.4	34	1.1	.....	n.	.....	.....	4	.....	8	.....	n.	12 h'r	12h'r	con.	n.;se.	cloudy.
S.S. Erin, Liverpool, Eng	.....	.....	47	8.3	.....	sse.	.....	.....	6	.....	7	.....	se.	sh'rs	sh'rs	.....	.....	threatening.
S.S. Greece, N. 45° 06′, W. 51° 07′	29.84	757.9	28	—2.2	.....	wnw.	.....	.....	8	.....	9	.....	wnw.	snow	snow	lum'y	wnw.	dull.
S.S. Helvetia, N. 48° 00′, W. 36° 45′	.....	.....	47	8.3	.....	nw.	.....	.....	7	.....	8	.....	nw.	7 h'r	7 h'r	long	wnw.	raining.
S.S. Holland, N. 49° 19′, W. 13 ° 15′	29.10	739.1	55	12.8	.....	n.	.....	.....	5	.....	8	.....	nw.	6 h'r	6 h'r	lum'y	nw.	fair.
S.S. Santiago, Cienfuegos, Cuba, W. I	30.29	769.4	72	22.2	90	n.	.....	.....	6	.....	10	.....	n.	0	0	sm'h	.....	overcast.
S.S. City of Alexandria, Havana, Cuba, W.I†	30.16	766.1	59	15.0	88	ne.	.....	.....	4	.....	2	.....	se.	0	0	mod.	ne.	clear.
S.S. City of Merida, N. 21° 20′, W. 89° 40′†	30.11	764.8	68.0	20.0	.....	se.	.....	.....	3	.....	1	.....	se.	0	0	mod.	se.	clear.
S.S. City of Washington, Vera Cruz, Mexico†	30.13	765.3	78	25.6	.....	s.	.....	.....	2	.....	2	.....	s.	0	0	sm'h	.....	fine.
S.S. America, off Lizard Point, Eng *	29.06	738.1	50.0	10.0	86	ese.	.....	.....	4	.....	10	.....	ese.	0	0	mod.	ese.	overcast.
S.S. Braunschweig, Buenos Ayres, Argentine Rep	29.82	757.4	79.0	26.1	78	se.	.....	.....	2	.....	2	.....	e.	2 h'r	2 h'r	.....	.....	clear.
S.S. Hohenstaufen, S. 28° 23′ W. 45° 42′	29.56	750.8	76.1	24.5	.....	n.	.....	.....	6	.....	10	.....	n.	2 h'r	2 h'r	mod.	ne.	cloudy.
S.S. Main, N 49° 23′, W. 20° 32′	29.45	748.0	50	10.0	.....	nw.	.....	.....	5	.....	7	.....	nw.	4 h'r	4 h'r	long	w.	cloudy.
S.S. Neckar, N. 40° 38′, W. 66° 30′	30.49	774.4	39.0	3.9	91	wnw.	.....	.....	4	.....	4	.....	wnw.	rain	rain	mod.	nw.	clearing.
S.S. Oder, N. 49° 32′, W. 30° 07′	28.93	734.8	45.5	7.5	.....	se.	.....	.....	7–8	.....	10	.....	se.	5 h'r	5 h'r	r'gh	se.	covered.
S.S. Sailer, Browershaven, Netherlands	29.70	754.4	...	.....	.....	ese.	.....	.....	5	.....	1	.....	ese.	0	0	.....	.....	fair.
S.S. Strassburg, N. 5° 33′, W. 29° 09	29.97	761.2	81.0	27.2	91	ne.	.....	.....	3-4	.....	9	.....	ne.	3 h'r	3 h'r	mod.	ne.	cloudy.
S.S. Belgic, N. 34° 49′, E. 168° 29′ *†	29.70	754.4	56	13.3	69	wnw.	.....	.....	6	.....	3	.....	wnw.	3 h'r	3 h'r	r'gh	w.	fair.
S.S. Coptic, N. 35° 34′, E. 141° 21′	30.16	766.1	51.5	10.8	79	sse.	.....	.....	4	.....	8?	.....	sse.	0	0	sm'h	se.	clear†
S.S. Gaelic, N. 35° 25′, E 139° 40′	30.02	762 5	41	5.0	100	n.	.....	.....	2	.....	4?	.....	nnw.	0	0	.....	.....	cloudy.†
S.S. Oceanic, N. 42° 30′, W. 133° 50′*	30.47	773.9	47	8.3	100	n.	.....	.....	3	.....	8	.....	n.	.....	.....	slt't	w.	cloudy.
S.S. City of Augusta, New York, N. Y†	30.41	772.4	.....	.....	.....	ssw.	.....	.....	4	.....	5	.....	sw.	0	0	.....	.....	smoky.
S.S. Willamette, Fuca Strait, Wash Ter†	30.33	770.4	40	4.4	91	nw.	.....	.....	1	.....	6?	.....	nw.	0	0	.....	.....	clear.†
S.S. Columbia, N. 37° 50′, W. 122° 44′ †	30.03	762.7	43.5	6.4	92	e.	.....	.....	1	.....	8	.....	.....	.....	.....	light	w.	foggy.
S.S. Oregon, Portland, Oregon†	30.29	769.4	37	2.8	90	calm	.....	.....	0	.....	8	.....	ssw.	.....	.....	.....	.....	gloomy.
S.S. Ancon, San Francisco, Cal†	30.00	762.0	39	3.9	100	n.	.....	.....	2	.....	10	.....	n.	.....	.....	.....	.....	cloudy.
S.S. City of Chester, Eureka, Cal*†	30.12	765.0	38	3.3	100	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear
S.S. Dakota, N. 48° 22′ W. 124° 53′*†	30.10	764.5	44	6.7	76	var.	.....	.....	2	.....	5?	.....	w.	0	0	sm'h	.....	clear.†
S.S. G. W. Elder, N. 38° 47′, W. 123° 30′ †	30.13	765.3	44	6.7	?	n.	.....	.....	2	.....	1	.....	.....	0	0	sm'h	.....	clear.
S.S. Orizaba, N. 32° 40′, W. 117° 14′*†	30.04	763.0	58	14.4	76	se.	.....	.....	2	.....	.....	.....	se.	0	0	sm'h	se.	cloudy.
S.S. Queen of the Pacific, Portland, Oregon†	30.27	768.8	.....	.....	.....	se.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	overcast.
S.S. State of California, San Francisco, Cal†...	30.08	764.0	38	3.3	90	n.	.....	.....	2	.....	5	.....	nnw.	0	0	.....	.....	foggy.
S.S. Victoria, San Francisco, Cal†	30.06	763.5	43	6.1	.....	ene.	.....	.....	3	.....	2	.....	nne.	.....	.....	.....	.....	fair.
S.S. City of New York, N. 10° 40′, W 161° 50′†	29.95	760.7	80	26.7	78	ne.	.....	.....	2	.....	10	.....	ne.	8 h'r	8 h'r	mod	ne.	squally.
S.S. City of Pekin, N. 32° 58′, W. 132° 10′ †	30.26	768.6	56	13.3	93	e.	.....	.....	3	.....	10	.....	n.	.....	.....	small	n.	cloudy.
S.S. City of Sydney, S. 33° 54′, E. 151° 30′ †	30.18	766.6	75	23.9	81	ne.	.....	.....	2	.....	2	.....	ne.	0	0	mod.	ne.	clear.
S.S. City of Tokei, Hong Kong, China †	30.18	766.6	60	15.6	82	e.	.....	.....	1	.....	10	.....	ne.	0	0	sm'h	ne.	overcast.
S.S. Colima, N. 19° 10′ W. 104° 50′†	30.02	762.5	72	22.2	90	nw.	.....	.....	3	.....	3	.....	nw.	0	0	mod.	s.	clear.
S.S. Colon, N. 30° 37′, W. 74° 15′ †	30.40	772.1	59	15.0	.....	e.	.....	.....	6	.....	8	.....	ne.	0	0	mod.	ene.	cloudy.
S.S. Grenada, Champerico, Mexico†	29.98	761.5	78	25.6	86	ne.	.....	.....	1	.....	0	.....	.....	0	0	mod.	.....	clear.
S.S. San José, N. 7° 48′ W. 79° 50′*†	29.96	761.0	.....	.....	.....	nw.	.....	.....	2	2 c	.....	nnw.	.....	0	0	light	sw.	
S.S. Zealandia, Sydney, N. S. W*	30.06	763.5	74	23.3	90	calm	.....	.....	0	.....	10	.....	s.	.....	.....	.....	.....	fine.
S.S. Muriel, Barbadoes, W. I*	30.04	763.0	80	26.7	.....	e.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	fair.
S.S. Caracas, Puerto Cabello, Venezuela†	30.03	762.7	78	25.6	84	calm	.....	.....	0	.....	3	.....	ene.	.....	.....	.....	.....	showery.
S.S. Claudius, N. 25° 10′, W. 74° 00′†	30.33	770.4	72.0	22.2	71	ne.	.....	.....	3	.....	2	.....	ne.	0	0	short	n.	fair.
S.S. Valencia, N. 37° 33′, W. 73° 00′†	30.55	776.0	48	8.9	63	sse.	.....	.....	3	.....	2	.....	calm	hail	hail	light	ne.	hazy
S.S. Belgenland, Antwerp, Belgium†	29.39	746.5	40	4.4	82	e.	.....	.....	5	.....	3	.....	e.	0	0	.....	.....	fair.
S.S. Rhyuland, N. 40° 40′, W. 71° 00′	30.53	775.4	36	2.2	80	sw.	.....	.....	1	.....	5	.....	sw.	0	0	sm'h	.....	squally.
S.S. Waesland, N. 49° 23′, W. 34° 04′	.....	.....	43	6.1	.....	s.	.....	.....	7	.....	10	.....	sw.	5 h'r	5 h'r	h'vy	sse.	threatening.
S.S. Maas, N. 47° 05′ W. 22° 18′	29.49	749.0	54.3	12.4	.....	sse.	.....	.....	3	.....	1	.....	sw.	hail	hail	5–6	w.	rainy.
S.S. Schiedam, N. 43° 03′, W. 53° 19′	30.07	763.8	37.8	3.2	93	wnw.	.....	.....	6	.....	8	.....	wnw.	snow	snow	h'vy	wnw.	cloudy.
S.S. W. A. Scholten, New York, N. Y.	30.25	768.3	33.0	0.6	89	sw.	.....	.....	5	.....	4	.....	w.	0	0	.....	.....	fair.
S.S. State of Florida, N. 46° 14′, W. 46° 01′	29.53	750.0	30	2.2	.....	w.	.....	.....	6	.....	9	.....	w.	snow	snow	mod.	wnw.	cloudy.
S.S. State of Indiana, N. 53° 08′, W. 23° 35′†	29.24	742.7	41	5.0	.....	ese.	.....	.....	2	.....	10	.....	sw.	2 h'r	2 h'r	mod.	w.	threatening.
S.S. Iowa, N. 46° 58′, W. 37° 06′ *†	29.18	741.2	48	8.9	.....	wnw.	.....	.....	9	.....	7	.....	wnw.	10 h'r	10 h'r	h'vy	nw.	fair.
S.S. Piantyn, N. 45° 48′, W. 39° 29′	29.30	744.2	.....	.....	.....	.....	.....	.....	7	.....	9	.....	w.	6 h'r	6 h'r	high	w.	cloudy.
S.S. Adriatic, N. 40° 52′ W. 63° 33′†	30.44	773.2	36	2.2	.....	n.	.....	.....	4	.....	7	.....	ne.	1 h'r	1 h'r	mod.	nw.	fair.
S.S. Britannic, N. 49° 02′, W. 22° 46′†	29.45	748.0	49	9.4	93	w.	.....	.....	2	.....	10	.....	se.	0	0	con.	var.	cloudy.
S.S. Germanic, N. 40° 36′, W. 69° 45′†	29.52	749.8	30	—1.1	.....	sw.	.....	.....	3	.....	3	.....	sw.	0	0	mod.	sw.	d. clouds.
S.S. Lepanto, N. 42° 08′, W. 50° 30′*	30.03	762 7	30	—1.1	.....	nnw.	.....	.....	6	.....	5	.....	nw.	snow	snow	h'vy	n.	fair.
S.S. Marengo, N. 49° 52′, W. 5° 15′	.....	.....	.....	.....	.....	se.	.....	.....	6	.....	10	.....	se.	0	0	mod.	se.	overcast.
S.S. Otranto, N. 50° 45′, W. 13° 55′	.....	.....	55	12.8	.....	nw.	.....	.....	3	.....	5?	.....	w.	.....	.....	long	w.	clear†
S.S. Romano, N. 43° 03′, W. 55° 20′*†	30.09	764.3	31	— 0.6	.....	wnw.	.....	.....	5	.....	10	.....	w.	snow	snow	long	w.	overcast.
S.S. Salerno, N. 40° 32′, W. 72° 36′	30.52	774.9	32	0.0	.....	sw.	.....	.....	3	.....	8	.....	sw.	0	0	sm'h	sw.	cloudy.
S.S. Catherine Whiting, Providence, R. I†	30.41	772.4	.....	.....	.....	calm	.....	.....	0	.....	8	.....	.....	0	0	.....	.....	
S.S. Norman, N. 39° 30′, W. 75° 08′ †	30.41	772.4	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	.....	clear.
S.S. Saxon, N. 42° 15′, W 73° 15′†	30.34	770.6	34	1.1	.....	ssw.	.....	.....	3	.....	5	.....	sw.	0	0	.....	.....	
Miscellaneous.																		
Bg. Abbie Clifford, Havana, Cuba, W. I†	30.17	766.3	55	12.8	.....	.....	.....	.....	.....	.....	0	.....	.....	0	0	.....	.....	fine.
Schr. Abbie H. Gheen, Spring Wood Mills, S. C†	30.50	774.7	35	1.7	.....	ene.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Adelaide, S 10° 39′, W. 34° 47′*†	29.92	760.0	83	28.3	.....	ese.	.....	.....	5	.....	3	.....	se.	0	0	mod.	ese.	fair.
Bk. Alpha, Demerara, British Guiana, S. A*†	29.98	761.5	80	26.7	.....	ene.	.....	.....	5	.....	5	.....	.....	0	0	.....	.....	fair.
Schr. Anna A. Holton, Tampico Bar, Mexico†	30.01	762.2	71	21.7	.....	se.	.....	.....	2	.....	2	.....	se.	0	0	hy'v	se.	fair.
Bk. Anna Thormann, S. 24° 10′, E. 2° 01′	30.18	766.6	71.4	21.9	73	ese.	.....	.....	5	.....	7 k	.....	se.	0	0	r'gh	se.	fair.
S.S. Antonio Lopez, Cadiz, Spain	29.47	748.5	63	17.2	72	w.	.....	.....	7	.....	9	.....	.....	3 h'r	3 h'r	.....	.....	hazy.
Bk. Aquidneck, N. 32° 56′, W. 72° 49′ *†	30.00	777.2	62	16.7	.....	var.	.....	.....	.....	.....	.....	.....	ne.	0	0	h'vy	n.	clear.

MISCELLANEOUS.—Continued.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Bgt. Arthur, S. 12° 21′, W. 29° 04′*†	30.04	763.0	.....	.....	.....	ese.	.....	.....	4	.....	2	.....	ese.	0	0	mod	var.	
Schr. Annie Lewis, N. 32° 38′, W. 77° 00′†	30.49	774.4	61	16.1	.....	se.	.....	.....	5	.....	8	.....	se.	1 h'r	1 h'r	mod.	ne.	fair.
Bk. B. F. Watson, N 22° 21′, E. 114° 18′ †	30.11	764.8	70	21.1	.....	calm	.....	.....	0	.....	0?	.....	.....	0	0	.....	.....	overcast.?
Bg. Belle of the Bay, Galveston, Texas †..	29.93	766 2	.....	.....	.....	s.	.....	.....	2	.....	0?	.....	.....	.....	.....	.....	.....	raining?
Bkt. Bocny Doon, N. 35° 16′, W. 10° 30′*†	29.68	753.9	.....	.....	.....	w.	.....	.....	7	.....	8	.....	w.	.....	.....	high	w.	hazy.
Bk. Bremen, N. 39° 18′, W. 16° 31′*	29.74	755.4	.....	.....	.....	wnw.	.....	.....	5	.....	6	.....	wnw.	0	0	cross	var.	fair.
S. S. Buiswell, N. 48° 00′, W. 16° 19′*†	29.30	744.2	50	10.0	.....	nnw.	.....	.....	5	.....	2	.....	wnw.	7 h'r	7 h'r	str'g	con.	clear.
Bk. Champion, Philadelphia, Pa	.....	.....	36	2.2	.....	nne.	.....	.....	3	.....	1	.....	sw.	0	0	.....	.....	fair.
Bk. Commerce, N. 36° 01′, W. 31° 00′†	30.06	763.5	66	18.9	.....	w.	.....	.....	4	.....	10	.....	w.	0	0	mod.	w.	fine.
S. S. D. J. Foley, N. 26° 52′, W. 71° 16′*†	30.32	770 1	65	18.3	78	ese.	.....	.....	6	.....	9	.....	.....	0	0	mod.	ne.	cloudy.
S. E. B. Sutton, N. 39° 40′, W. 71° —′†	30.58	776.8	.....	.....	.....	ssw.	.....	.....	6	.....	3	.....	w.	0	0	mod.	sw.	clear.
Bk. E. D. Bigelow N. 44° 00′, W. 21° 40′ *†	29.50	749 3	.....	.....	.....	wsw.	.....	.....	4	.....	8	.....	wnw.	0	0	long	ne.	cloudy.
Schr. Edith R. Seward, Wilmington, N C†	30.37	771.4	30	—1.1	.....	ene.	.....	.....	1	.....	1	.....	calm	0	0	.....	.....	
Bk. Edmund Phinney, S. 7° 40′, W. 34° 20′ †	29.98	761.5	84	28.9	.....	ese.	.....	.....	4	.....	3	.....	ese.	sli't	sli't	mod.	se.	fair.
S. E. J. Spicer, Liverpool, Eng†.	29.46	748 3	52	11.1	100	ese.	.....	.....	5	.....	10	.....	.....	rain	rain	.....	.....	raining.
Bk. E. L. Pettingill, S. 40° 19′, W. 115° 23′ *†	30.30	769.6	62	16.7	.....	sse.	.....	.....	3	.....	8	.....	sse	12 h'r	12 h'r	sm'h	se.	raining.
Bk. Essex, Mujambo, Madagascar*†	29.88	759.0	89	31.7	.....	nw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	nw.	
Schr. F. E. McDonald, Jacksonville, Florida†	30.26	768.6	36	2.2	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	fine.
U.S. F. C. S. S. Fish Hawk, Washington, D. C	.....	.....	25	—3.9	.....	sw.	.....	.....	1	.....	5	.....	w.	.....	.....	.....	.....	fair.
S. S. Foscolia, Dunkirk, France	.....	.....	.....	.....	.....	sse.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....	dull.
Bk. Freya, Matanzas, Cuba, W. I.	.....	.....	.....	.....	.....	sw.	.....	.....	1	.....	1	.....	ne.	0	0	.....	.....	fine.
S. Geo. Stetson, S. 0° 32′, W. 30° —′ *†	30.06	763.5	80	26.7	87	sse.	.....	.....	3	.....	4	.....	se.	0	0	sm'h	ne.	clear.
Bg. Gipsey Queen, N. 34° 00′ W. 68° 38′*†	30.30	769.6	.....	.....	.....	nne.	.....	.....	6	.....	3	.....	ne	0	0	long	n.	d. clouds.
Bk. Gronsvaer, Auckland, N. Z	30.00	761 9	73.0	22.8	.....	w.	.....	.....	4	.....	2	.....	nw.	0	0	.....	.....	fair.
Bk. Hattie G. McFarland, Demerara, Brit. Guiana†*	30.05	763.3	78	25.6	.....	ese.	.....	.....	4	.....	6	.....	e.	0	0	.....	.....	gloomy.
Schr Hattie Weston, N. 24° 00′, W. 60° 20′ *†	30.27	768.8	77	25 0	.....	ene	.....	.....	4	.....	10	.....	ene.	1 h'r	1 h'r	mod.	wnw.	cloudy.
S. Hedwig, N. 46° 08′, W. 21° 51′	.....	.....	51.1	10.6	.....	n	.....	.....	4	.....	9	.....	var.	rain	rain	6	wnw.	overcast.
Bk. Heinrich & Tonio, N. 43° 35′, W. 15° 56′	.....	.....	55	12.8	.....	nw.	.....	.....	8	.....	4	.....	nw.	rain	rain	high	nw.	showery
Schr. Isabel Alberto, Jersey City, N. J †.....	30.50	774.7	.....	.....	.....	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Schr. James Slater, N. 35° 00′, W. 65° 58′	30.45	773.4	60	15.6	.....	nnw.	.....	.....	4	.....	8	.....	n.	2 h'r	2 h'r	h'vy	nnw.	rainy.
Bk. Johanne, N. 34° 08′, W. 18° 50′ *†	30.04	763.0	65	18.3	.....	w.	.....	.....	4	.....	8	.....	w.	5 h'r	5 h'r	r'gh	w.	misty.
Schr. John L. Thomas, N. 23° 42′, W. 61° 56′ *†	30.28	769.1	.....	.....	.....	ne.	.....	.....	6	.....	10	.....	ene.	4 h'r	4 h'r	h'vy	var.	rainy.
Bkt. Josephine, S. 18° 00′, W. 31° 05′†	30.02	762.5	80	26.7	82	ne.	.....	.....	6	.....	8	.....	.....	3 h'r	3 h'r	r'gh	.....	squally.
S. S. J. W. Wilson, Atchafalaya Light, La*†	29.99	761.7	64	17.8	.....	se.	.....	.....	5	.....	10	.....	.....	0	0	.....	.....	cloudy.
Light House Tender Laurel, Manatel River, Fla†	30.24	768.1	54	12.2	.....	e.	.....	.....	1	.....	2	.....	e.	0	0	.....	.....	clear.
Bk. Louise Adelaide, Vera Cruz, Mexico	.....	.....	.....	.....	.....	sw.	.....	.....	1	.....	3	.....	se.	0	0	long	ne.	fair.
Bg. L. & W. Armstrong, N. 37° 29′, W. 69° 20′*†	30.54	775.7	.....	.....	.....	calm	.....	.....	0	.....	8	.....	nw.	snow	snow	mod.	nnw.	clearing.
S. S. Malabar, Gibralter, Mediterranean	.....	.....	.....	.....	.....	wnw.	.....	.....	10	.....	.....	.....	wnw.	3 h'r	3 h'r	sm'h	.....	raining.
Bg. Mary A. Troop, N. 39° 45′, W. 71° 54′ *†	30.54	775.7	.....	.....	.....	ssw.	.....	.....	3	.....	8	.....	ssw.	0	0	sm'h	.....	cloudy.
Schr. Minnie A. Bonsall, New Berlin, Fla †	30.32	770.1	64	17.8	.....	wnw.	.....	.....	.....	.....	2	.....	sse.	0	0	.....	.....	fair.
S. Minnie N. Gerow, N. 39° 15′, W. 73° 00′	30.44	773.2	.....	.....	.....	wsw.	.....	.....	6	.....	7	.....	sw.	.....	.....	mod.	sw.	fair.
S. M. P. Grace, S. 32° 54′, W. 25° 28′ *	30.05	763.3	73	22.8	.....	nnw.	.....	.....	4	.....	hz.	.....	nnw.	0	0	sm'h	nnw.	clear.
Bg. Myrtle, N. 26° 16′, W. 56° 50′*†	30.10	764.5	.....	.....	.....	n.	.....	.....	1	.....	5	.....	ne.	0	0	long	nw.	fair.
Bkt. Norena, Off Stirrup Cays, W. I*†	30.33	770.4	.....	.....	.....	nne.	.....	.....	3	.....	1?	.....	ne.	0	0	sm'h	.....	cloudy *
Schr. Ocean Traveler, N. 37° 52′ W. 70° 54′	30.50	774.7	.....	.....	.....	calm	.....	.....	0	.....	5	.....	.....	.....	.....	.....	.....	fair.
Bk. Ottawa, Alicante Harbor, Spain*	29.11	739.4	58	14.4	.....	wsw.	.....	.....	2	.....	8	.....	wsw.	0	0	sm'h	.....	cloudy.
S. Paramita, San Francisco, Cal	30.10	764.5	38	3.3	.....	n.	.....	.....	2	.....	.....	.....	.....	0	0	.....	.....	foggy.
Schr. Pearl Nelson, N. 26° 56′, W. 67° 12′	.....	.....	.....	.....	.....	nw.	.....	.....	6	.....	6	.....	nw.	0	0	long	n.	raining.
S. S. Peconic, N. 33° 20′, W. 75° 00′*†	30.38	771.6	57	13.9	.....	ese.	.....	.....	4	.....	10	.....	ese.	0	0	sm'h	ne.	overcast.
S. S. Raleigh, Santiago, Cuba, W. I*	30.03	762.7	70	21.1	.....	nne.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	fine.
Bk. Reindeer, N. 23° 45′, W. 60° 36′*	30.09	764.3	.....	.....	.....	ene.	.....	.....	4	.....	8	.....	ene.	1 h'r	1 h'r	long	se.	clearing.
S. Rudolph, N. 45° 49′ W. 13° 10′	28.88	733.5	53.3	11.8	.....	nnw.	.....	.....	9	.....	6	.....	nw.	4 h'r	4 h'r	h'vy	nw.	heavy rain.
Schr. S. B. Hubbard, Jacksonville, Fla*†	30.38	771.6	35	1.7	.....	ne.	.....	.....	1	.....	5?	.....	ne.	0	0	.....	.....	clear.?
Bk. Scud, N. 25° 27′, W. 55° 44′ *†	30.23	767.8	78	25.6	.....	nne.	.....	.....	1	.....	1	.....	.....	0	0	long	nw.	hazy.
Bk. Southern Belle, N. 24° 35′, W. 31° 22′*†	30.12	765.0	70	21.1	.....	ene.	.....	.....	3	.....	2	.....	.....	0	0	sm'h	.....	clear.
S. Sovereign of the Seas, N. 0° 07′, W. 112° 54′ *†	30.04	763.0	76	24.4	100	se.	.....	.....	3	.....	1	.....	s.	0	0	.....	se.	clear.
Bk. Sunbeam, N. 38° 44′, W. 10° 27′*†	29.55	750.6	60	15.6	76	wnw.	.....	.....	9	.....	5	.....	wsw.	4 h'r	4 h'r	h'vy	wnw.	fair.
S. S. Sunbeam, N. 36° 10′, W. 68° 13′	30.54	775.7	45.5	7.5	76	nne.	.....	.....	4	.....	10	.....	e.	3 h'r	3 h'r	7	nnw.	overcast.
S. Titan, N. 28° 22′, W. 39° 54′*†	30.28	769.1	74	23.3	86	sse.	.....	.....	1	.....	1	.....	se.	0	0	sm'h	nw.	clear.
Bk. Wandering Jew, Montevideo, Uruguay †	29.86	758.4	73	22.8	.....	nw.	.....	.....	3	.....	3	.....	nw.	0	0	.....	.....	clear.
Schr. Wm. Wiler, N. 29° 45′, W. 73° 00′†	30.41	772.4	.....	.....	.....	e.	.....	.....	1	.....	5	.....	ese.	0	0	mod.	ene.	squally.
Bk. Xenia, N. 30° 07′, W. 41° 19′ *†	30.33	770.4	70	21.1	.....	ssw.	.....	.....	4	.....	5	.....	ssw.	2 h'r	2 h'r	mod.	nw.	fair.

International Chart I. January 13, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 14, 1883,

7 A. M., Washington Mean Time.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind.		CLOUDS. Direction.		Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	29.70	754.3	64.8	18.2	78	ne.	.....	.....	6	.....	2	.....	.....	0.360	9.3	fair	Malaterre.
Algiers	.....	.....	29.36	745.7	52.9	11.6	98	nw.	.....	.....	7	.....	10	.....	.....	1.835	46.6	covered	Thève.
La Calle	.....	.....	29.33	745.0	58.3	14.6	63	wnw.	.....	.....	3	.....	3	.....	.....	0.669	17.0	pretty fair	Fonfréde.
Tunis	.....	.....	29.39	746.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	29.04	752.9	51.8	11.0	73	w.	.....	.....	3	.....	4	.....	.....	0.551	14.0	cloudy	Pérès.
Tebessa	.....	.....	29.52	749.9	46.4	8.0	78	w.	.....	.....	1	.....	4	.....	.....	0.039	1.0	cloudy	Dognon.
Geriville	.....	.....	.....	.....	38.8	3.8	67	wnw.	.....	.....	8	.....	5	.....	.....	0.472	12.0	cloudy	Lonchamp.
Laghouat	.....	.....	29.56	750.8	53.6	12.0	54	wsw.	.....	.....	5	.....	7	.....	.....	0.335	8.5	very cloudy	Abraham.
Biskra	.....	.....	29.49	749.0	53.2	11.8	81	calm	.....	.....	0	.....	10	.....	.....	0.157	4.0	covered	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.89	759.2	29.98	761.5	75.3	24.1	54	se.	9	4.0	.....	.....	3	.....	.....	0	0	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. Ivan Stožir.
Cracow, I. R Observatory	29.26	743.3	29.84	757.9	32.7	0.4	90	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.21	741.8	30.02	762.5	23.7	— 4.6	90	ene.	22.4	10.0	.....	.....	8	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.04	737.7	29.96	760.9	33.8	1.0	78	calm	.....	.....	0	0s	10 s	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.60	726.4	29.89	759.3	33.1	0.6	72	sw.	.....	.....	1	.....	9	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.49	723.7	29.97	761.2	33.6	0.9	76	sw.	.....	.....	1	.....	6	.....	.....	0	0	.....	The Staff.
Lemberg	28.27	718.1	29.64	752.9	37.2	2.9	78	ne.	.....	.....	2	0 c	0	.....	.....	0	0	fair	Dr. T. Stanecki.
Neu Schmecks	29.13	739.9	30.20	767.1	18.5	— 7.5	72	se.	.....	.....	1	.....	7	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	29.50	673.0	29.89	759.2	42.8	6.0	70	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.47	748.6	29.59	751.5	50.2	10.1	80	ene.	.....	.....	3	.....	10	.....	.....	0.185	4.7	.....	Joseph Midlinszay, S. J.
Szegedin	29.41	746.0	29.87	758.8	41.0	5.0	60	e.	.....	.....	2	.....	.....	.....	.....	0	0	.....	Karl Staucel.
Trieste	29.60	751.8	29.89	759.1	38.7	3.7	69	se.	.....	.....	1	.....	10	.....	.....	0	0	.....	.....
Vienna	29.54	750.2	29.63	752.7	46.4	8.0	55	ne.	.....	.....	2	.....	10	.....	.....	0.087	2.2	.....	Royal Academy.
	29.14	740.2	29.89	759.1	33.8	1.0	75	ese.	.....	.....	2	.....	7	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.44	747.8	29.54	750.3	39.2	4.0	83	se.	26	11.6	.....	.....	10	.....	.....	0.405	11.8	squally	W. Boswell
Armagh, Observatory	28.98	736.1	29.23	742.4	44.0	6.7	89	se.	30	13.4	.....	.....	10	.....	.....	.....	.....	raining	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.44	747.8	37.0	2.8	89	ese.	23	10.3	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	28.91	734.3	29.44	747.8	35.0	1.7	91	se.	9	4.0	.....	.....	10	.....	.....	.....	.....	gloomy	Thomas Mackereth.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.42	10.7	.....	McLandsborough & Preston.
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	81.5	27.5	66	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington	.....	.....	.....	.....	39.0	3.9	90	s.	.....	.....	0.4	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.44	747.8	29.57	751.1	40.5	4.7	95	calm	.....	.....	0	.....	10	.....	.....	.....	.....	misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.21	741.9	29.44	747.8	49.6	9.8	90	sse.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	The Staff.
Fort Napier, Natal	27.62	701.5	29.84	757.9	76.0	24.4	58	e	.....	.....	1	.....	8	.....	.....	.....	.....	overcast	The Staff.
Galway	28.97	735.8	29.01	736.8	47	8.3	85	se.	.....	.....	7	.....	10	.....	.....	0	0	threatening	Corpl. F. Milner, A. H. C.
Gibraltar, Mediterranean	29.80	756.9	29.85	758.2	58.2	14.0	90	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	d. clouds	Wm. Ryan.
Glasgow, Observatory	29.14	740.1	29.34	745.2	40.9	4.9	77	se.	.....	.....	3	.....	9 k	.....	.....	.....	.....	d. clouds	Sgt. J. Norris, A. H. C.
Greenwich, Royal Obs'y	29.39	746.5	29.57	751.1	40.9	4.9	90	se.	.....	.....	1	.....	9	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Guernsey	29.22	742.2	29.51	749.5	58.0	14.4	53	ese.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	The Staff.
Kew, Observatory	29.53	750.0	29.57	751.1	40.2	4.6	87	ne.	4	1.8	.....	.....	9	.....	.....	.....	.....	misty	A. Collenette, F. M. S
Leicester, Museum	29.29	744.0	29.50	750.8	36.5	2.5	88	se.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	The Staff.
Malta, Mediterranean	29.59	751.6	29.66	753.4	60.2	15.7	60	sw.	.....	.....	2	.....	9	.....	.....	0.08	2.0	overcast	J. C. Smith.
Nassau, Bahamas	30.16	766.1	30.20	767.1	72.0	22.2	92	e.	.....	.....	1	.....	4	.....	.....	.....	.....	overcast	Corpl. Keene, A. H. C.
Oscott, St. Mary's College	28.97	735.8	29.51	749.5	35.1	1.7	98	sse.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	C. S. Duncombe
Oxford, Radcliffe Obs'y	29.30	744.2	29.53	750.0	40.8	4.9	87	ese.	.....	.....	1	.....	3	.....	.....	.....	.....	misty	Rev. Jas. W. Browne.
Plymouth	29.40	746.7	29.47	748.5	48.0	8.9	93	se.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	The Staff.
Sandwick Manse, Orkneys	29.32	744.7	29.42	747.3	39.8	4.3	88	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Scutari Cemetery, Turkey	29.96	761.0	30.02	762.5	49.6	9.8	67	calm	.....	.....	0	.....	10	.....	.....	.....	.....	drizzling	Rev. C. Clouston, L. L. D.
Sheffield	29.22	742.2	29.51	749.5	36.4	2.4	88	s.	.....	.....	1	.....	10	.....	.....	.....	.....	gloomy	W. H. Lyne.
Sillioth Rectory	29.36	745.7	29.39	746.5	40.0	4.4	82	e.	.....	.....	2	.....	2	.....	.....	0.24	6.1	overcast	W. F. Cooper.
Stonyhurst, Observatory	.....	.....	29.50	749.3	36.1	2.3	85	e.	10	4.5	.....	.....	10	.....	.....	0.415	10.5	d. clouds	Rev. F. Redford, M. A.
Stratfield Turgiss	29.29	744.0	29.52	749.8	43.2	6.2	83	e.	.....	.....	2	.....	0	.....	.....	.....	.....	misty	Rev. S. J. Perry.
Truro, Royal Institution	29.37	746.0	29.42	747.3	51	10.6	78	s.	.....	.....	4	.....	10	.....	.....	.....	.....	blue sky	Rev. C. H. Griffiths F. M. S.
Valencia, Observatory	29.02	737.1	29.05	737.9	45.4	7.4	92	sw.	48	21.5	.....	.....	10	.....	.....	.....	.....	gloomy	W. Newcombe.
																		misty	The Met'g'l Office.
CANADIAN.																			
Bathurst, N. B.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.66	751.8	29.65	753.1	34	1.1	90	sw.	20	8.9	.....	.....	10 n	.....	calm	0.120	3.0	threatening	H. J. Cundall, C. E.
Chatham, N. B*	29.49	749.0	29.55	750.6	34	1.1	85	sw.	13	5.8	.....	2 cs	8 s	sw	sw.	0.14	3.6	cloudy	G. A. Blair.
Cornwall	29.52	749.8	29.72	754.9	24.7	— 4.1	80	w	.....	.....	5	.....	10 n	.....	.....	0.08	2.0	overcast	Jas. Smith, M. A.
Dalhousie	29.46	748.3	29.52	749.8	11.5	—11.4	.....	calm	.....	.....	0	.....	10 s	.....	.....	0.50	12.7	overcast	H. A. Johnson.
Father Point, Quebec*	29.39	746.5	29.41	747.0	28	— 2.2	100	sw.	25	11.2	.....	.....	10 s	.....	sw.	0.25	0.3	cloudy	A. McWilliams.
Fort Garry, Manitoba*	29.35	745.5	30.36	771.1	—31	—35.0	100	nw.	0	2.7	.....	.....	hz	.....	.....	0	0	hazy	James Stewart.
Fredericton	29.57	751.1	29.03	752.6	35.0	1.7	89	sw.	11	4.9	.....	.....	10 s	.....	.....	0.330	8.4	overcast	Prof. Harrison, L. L. D.
Granton	28.87	733.3	30.07	763.8	10.6	—11.9	96	sw.	5	2.2	.....	.....	10 n	.....	.....	0.20	5.1	overcast	Jas. Grant.
Halifax, N. S*	29.05	753.1	29.78	756.4	38	3.3	100	s.	10	4.5	.....	.....	10 n	.....	.....	0.180	4.6	light rain	A. Allison.
Hamilton	29.58	751.3	30.01	762.2	12.7	—10.7	89	sw.	.....	.....	3	10 k	0	sw.	.....	0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.48	748.8	29.83	757.7	23	— 5.0	80	sw.	7	3.1	.....	.....	10 ks	.....	w.	0.50	12.7	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.48	748.8	29.70	754.4	24	— 4.4	92	s.	17	7.6	.....	.....	10 ks	.....	w.	0.05	1.3	cloudy	C. H. McLeod, C. E.
Ottawa	29.45	748.0	29.71	754.6	23.1	— 4.9	88	n.	.....	.....	3	.....	10 s	.....	.....	0.10	2.5	snowing	A. McGill, M. A.
Parry Sound, Ontario*	29.10	739.1	29.83	757.7	20	— 6.7	84	w.	24	10.7	.....	2 k	8 ks	w.	w.	0.00	1.5	cloudy	Rev. R. Mosley.
Peterboro	29.11	739.4	29.91	759.7	21.4	— 5.9	.....	w.	.....	.....	3	0	4 ks	.....	.....	0	0	fine	J. Dixon, B. A.
Port Dover, Ontario	29.31	744.5	30.07	763.8	15	— 9.4	82	w.	23	10.3	.....	2 c	8 c	w.	.....	0.20	5.1	cloudy	H. Morgan.
Port Stanley, Ontario	29.36	745.7	30.07	763.8	11	—11.7	83	w.	10	7.2	.....	0	0	.....	.....	inap.	inap.	clear	M. Payne.
Quebec, Quebec*	29.25	742.9	29.59	751.6	25	— 3.9	88	sw.	.....	.....	1	5 ck	5 c	.....	w.	0.00	15.2	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.23	742.4	29.74	755.4	17	— 8.3	87	w.	8	3.6	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.15	740.4	29.91	759.7	21	— 6.1	91	w.	34	15.2	.....	.....	10 s	.....	.....	0.15	3.8	cloudy	
St. Andrews, N. B	29.60	751.8	29.65	753.1	35	1.7	89	.....	7	3.1	.....	.....	10 n	.....	.....	0.40	10.2	cloudy	
St. John, N. B	29.51	749.5	29.68	753.9	35.0	1.7	100	sw.	18	8.0	.....	.....	10 n	.....	.....	0.00	1.5	drizzling	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.72	754.9	35.6	2.0	.....	sw.	.....	.....	7	.....	.....	.....	.....	0.08	2.0	.....	The Commandant.
Stratford	28.04	727.4	30.03	762.7	11.1	—11.6	90	w.	8	3.6	.....	.....	10 s	.....	.....	0.15	3.8	light snow	C. J. Macgregor, M. A.
Sydney, C. B*	29.04	752.8	29.70	754.4	30	2.2	96	sw.	30	13.4	.....	.....	10 n	.....	.....	0.30	7.6	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.54	750.3	29.95	760.7	17	— 8.3	80	w.	20	8.9	.....	5 cs	2 s	w.	w.	inap.	inap.	cloudy	Magnetic Observatory.
Windsor	29.62	752.3	29.72	754.9	30.5	2.5	94	w.	4	1.8	.....	.....	10	.....	.....	.....	.....	light rain	Prof. W. H. Butler.
Woodstock	28.93	734.8	30.10	764.5	11.5	—11.4	86	sw.	21	9.4	.....	8 k	0	w.	.....	0.750	19.0	d. clouds	Prof. Wolverton, M. A.
Yarmouth, N. S*	29.70	754.4	29.77	756.1	38	3.3	99	w.	7	3.1	.....	.....	10 s	.....	w.	0.43	10.9	light rain	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt. House	29.88	758.9	29.91	759.7	74.0	23.3	84	e.	8.8	3.9	.....	0	1 k	.....	.....	0	0	light haze	John Duthie.
Springbok Fontein	27.83	706.9	.....	.....	86	30.0	55	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction Upper. From.	Clouds. Direction Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
CHINESE (*Sub-series*).																			
Sung-shu-chwang	24.82	630.5	.....	.....	17.6	— 8	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.41	772.3	30.56	776.1	21.0	— 6.0	87	calm	.....	.....	0	.....	0	.....	.....	0.039	1.0	.....	**Mission, S. J.**
Zi-Ka-Wei, near Shanghai	30.38	771.6	30.40	772.2	36.5	2.5	94	e.	4.9	2.2	.....	6 cs	0	.....	.....	0	0	½ covered	**M. Marc Dechevrens, S.J**
DANISH.																			
Copenhagen	29.96	760.9	30.00	762.1	30.4	— 0.9	63	ese.	45	20	.....	.....	8	.....	.....	.....	.....	.....	**Oversergent Fischer.**
Fanoe	29.79	756.6	29.81	757.1	30.9	— 0.6	77	e.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	29.08	738.5	29.12	739 6	18.1	— 7.7	81	ne.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	**S. Kleinschmidt.**
Ivigtut, Greenland	29.13	739.8	29.15	740.3	16.2	— 8.8	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	snowing	
Jacobshavn, Greenland	29.26	743.2	29.31	744.4	10.2	—12.1	.....	calm	.....	.....	0	.....	4	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.04	737.5	29.08	738 6	34.2	1.2	94	se.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	**A. O. Thorlacius.**
Thorshavn	29.39	746.5	29.43	747.4	41.7	5.4	89	se.	25	11	.....	.....	10	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Vestervig	29.82	757.3	29.91	759.6	29.3	— 1.5	74	ene.	.....	.....	7	.....	2	.....	.....	.....	.....	.....	**Loerer Oesterbol.**
Upernavik, Greenland	29.06	738.0	29.10	739.2	9.7	—12.4	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	
FRENCH.																			
Agen, Normal School	29.11	739 4	29.76	756.0	46.8	8.2	92	calm	.....	.....	0	.....	n;kn	.....	.....	0.024	0.6	.....	**M. Labroue, Director.**
Alençon, Normal School	29.03	737 3	29.58	751.3	42.1	5.6	91	s.	.....	.....	1	.....	k	w.	w	0	0	.....	**M. Nicot, Director.**
Arras, Engineer School	29.29	744.0	29.56	750.7	32.7	0.4	67	.....	.....	.....	2	.....	k	.....	.....	0	0	.....	**M. Fénéon, Command't.**
Avignon, Normal School	29.51	749 6	29.59	751.6	52.9	11.6	71	nnw.	.....	.....	1	.....	.....	.....	.....	0.406	10.3	.....	**M. Giraud, Director.**
Bar-sur-Seine	29.06	738.0	29.62	752.4	42.8	6.0	77	s.	.....	.....	1	0	0	.....	.....	0	0	clear	**M. Saillard, Director.**
Beauvais, Normal School	29.32	744 7	29.59	751.6	41.7	5.4	63	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. Frère Eugène Marie.**
Besançon, Normal School	28.68	728.4	29.58	751.4	47.8	8.8	92	ssw.	.....	.....	1	.....	cn	.....	w.	0	0	.....	**M. Gobin, Director.**
Bordeaux, Observatory	29.41	746.9	29.67	753.6	45.1	7.3	99	s.	.....	.....	1	.....	10	.....	.....	0.008	0.2	covered	**M. Rayet, Director.**
Bourges, Normal School	29.02	737.1	29.57	751.0	50.0	10	79	sw.	.....	.....	2	.....	k	.....	sw.	0.24	6.	.....	**M. Malet, Director.**
Brest, Naval Observatory	29.34	745.1	29.58	751.2	50.0	10.0	92	ssw.	.....	.....	1	.....	6	.....	ssw.	0	0	.....	**M. de Kermaréc, Dir.**
Caen, Normal School	29.45	747.9	29.52	749.8	46.4	8	89	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. Berson, Director.**
Châlons-sur-Marne, N.Sch'	29.28	743.6	29.60	751.8	41.4	5.2	89	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. Jadot, Director.**
Charleville, Normal School	29.09	738.8	29.61	752.0	39.6	4.2	59	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. Grimard, Director.**
Clermont-Ferrand Obs'y	28.27	718.0	29.62	752.3	50.4	10.2	70	e.	.....	.....	1	.....	1	.....	e.	0.083	2.1	clear	**M. Allnard, Director.**
Cluny, Normal School	28.79	731.3	29.65	753.1	51.8	11	75	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	**M. de Villemontée, Dir.**
Commercy, Normal School	28.76	730.4	29.64	752.9	35.2	1.8	93	e.	.....	.....	1	.....	2 k	e.	e.	0	0	slightly cl'dy	**Dr. Coulet, Director.**
Gap, Normal School	27.04	686.8	29.54	750.4	50.0	10	86	.....	.....	.....	.....	.....	4	.....	.....	0	0	.....	**M. Jeangirard, Director.**
Gréasque, du Rhone	28.47	723.1	29.59	751.6	49.5	9.7	86	n.	.....	.....	1	.....	8	.....	sw.	0.512	13.0	.....	**M. Khn, Director.**
Grenoble, Normal School	28.85	732.9	29.64	752.8	45.0	7.2	77	se.	.....	.....	1	c	0	.....	.....	0	0	.....	**M. Ablard, Director.**
Guéret	28.10	713.7	29.67	753.7	46.4	8	72	sw.	.....	.....	1	.....	n	.....	sw.	0	0	.....	**M. Delorme, Dir.**
Lamballe, Normal School	29.28	743.7	29.55	750.5	49.3	9.6	84	sw.	.....	.....	2	.....	10	.....	sw.	0.04	1.	covered	**M. Ollitrault, Director.**
Lescar, Normal School	29.11	739.3	29.67	753.7	51.4	10.8	88	wsw.	.....	.....	1	0	5 k	.....	.....	0.091	2.3	cloudy	**M. Chauvin, Director.**
Lorient, Naval Observatory	29.50	749.3	29.60	751.9	52.2	11.2	77	sw.	.....	.....	1	.....	8	sw.	w.	0.315	8.0	¾ covered	**Lt. T. Carré, Director.**
Lyon, St. Genis-Laval	28.58	725 9	29.64	752.9	43.9	6.6	73	e.	.....	.....	1	0	0	.....	.....	0.035	0.9	clear	**M. André, Director.**
Mans, Normal School	29.29	744 0	29.61	752.0	44.1	6.7	89	se.	.....	.....	1	.....	0	.....	.....	0.31	8.	clear	**M. Piboën, Director.**
Marseille, Observatory	29.29	744 0	29.56	750.8	54.1	12.3	87	nnw.	.....	.....	1	.....	10	.....	ese.	0.358	9.1	.....	**M. Stephan, Director.**
Montlouis	24.46	621.2	29.30	744.2	38.1	3.4	77	sw.	11.2	5.0	.....	.....	0	.....	.....	0	0	.....	**M. Caré for Dr. Finas.**
Montpellier, Normal School	29.45	748.1	29.58	751.4	57.6	14.2	76	nw.	.....	.....	2	.....	1	.....	nw.	0.575	14.6	clear	**M. Gaizin, Director.**
Nancy, Normal School	28.93	734.8	29.74	755.4	34.9	1.6	83	w.	.....	.....	1	c	fg	.....	.....	0	0	light fog	**M. Hasse, Director.**
Nantes, Observatory	29.48	748.7	29.64	752.8	54.1	12.3	79	wsw.	.....	.....	1	.....	8 k;kn	.....	s.	0.028	0.7	.....	**M. Larocque, Director.**
Perpignan, Observatory	29.53	750.0	29.64	752.8	55.4	13.0	62	nw.	18.6	8.3	.....	.....	2	.....	nw.	0	0	.....	**Dr. Finas, Director.**
Pic-du-Midi, Summit	20.84	529.4	.....	.....	18.7	— 7 4	.....	nw.	.....	.....	2	.....	5	.....	nw.	0.126	3.2	cloudy	**M. Vaussenat.**
Privas, Normal School	28 55	725.1	29.61	752.1	50.0	10	97	s.	.....	.....	3	.....	10	s.	s.	1.14	29.	covered	**M. Taillen.**
Puy de Dôme Obs'y, Summit	24.75	628.7	.....	.....	31.5	— 0.3	100	wsw.	.....	.....	3	.....	10	.....	.....	0.031	0.8	foggy	**M. Allnard, Director.**
Rochefort, Naval Obs'y	29.60	751.7	29.63	752.5	50.0	10.0	86	w.	.....	.....	1	.....	10	.....	wnw.	0.47	12.	covered	**Lt. E. Decante, Director.**
Roche-sur-Yon, N. School	29.35	745.6	29.58	751.2	48.0	8 9	95	ene.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	**M. Brotier, Director.**
Rodez, Normal School	27.39	695.8	29.55	750.5	43.5	6.4	94	e.	.....	.....	1	.....	k	.....	e.	0.346	8.8	.....	**M. Seger, Director.**
Rouen, Normal School	29.50	749.3	29.55	750.5	44.2	6.8	74	se.	.....	.....	1	.....	2	se.	.....	0.024	0.6	slightly cl'dy	**M. Mouillot.**
Saint Lô	.....	.....	.....	.....	34.0	1.1	54	w.	.....	.....	1	.....	1	.....	w.	0	0	clear	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.43	747 5	29.60	751.7	43.3	6.3	75	ne	.....	.....	1	.....	0	.....	.....	0.067	1.7	.....	**M. Renou, Director.**
Toulouse, Observatory	28.98	736.2	29.70	754 3	48.4	9.1	88	sw.	.....	.....	1	.....	8	.....	.....	0.236	6.0	very cloudy	**M. Baillaud, Director.**
Tours	29 41	746.9	29.58	751.4	45.3	7.4	80	ne.	.....	.....	1	.....	0	.....	.....	0.516	13.1	clear	**M. de Tastes.**
Versailles, Observatory	29.09	738 8	29.58	751.2	42.8	6.0	67	e.	.....	.....	1	.....	.....	.....	.....	0	0	.....	**Dr. A. Bérigny, Director.**
Sub-series.																			
St. Martin du Hinx	29.58	751.2	29.72	755.0	55.2	12.9	74	sw.	11.9	5.3	.....	.....	5 k	n.	w.	0.228	5.8	.....	**M. Cartier, Director.**
GERMAN.																			
Ansbach	28.15	714 9	29.62	752.3	39.2	4.0	74	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	**Prof. Jnedt.**
Bamberg	28.75	730.2	29.57	751.1	41.0	5.0	70	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	**Prof. Dr. Hoh.**
Berlin	29.68	753.9	29.83	757.7	29.8	— 1.2	47	e.	.....	.....	3	.....	9	.....	.....	0	0	.....	**Dr. Lensch.**
Breslau	29.39	746.4	29.91	759.8	31.8	— 0.1	74	ese.	.....	.....	3	.....	2	sw.	.....	0	0	.....	**Royal University Obs'y.**
Carlsruhe	29.18	741.2	29.63	752.5	35.1	1.7	65	sw.	.....	.....	1	.....	2	sw.	.....	0	0	.....	**Albert Senz.**
Cassel	28.89	733.8	29.60	751.9	34.3	1.3	85	n.	.....	.....	1	.....	2	n.	.....	0	0	.....	**Dr. H. Möhl.**
Frankfort-on-the-Main	29.26	743.3	29.64	752.9	36.0	2.2	62	nne.	.....	.....	1	.....	1	.....	.....	0	0	.....	**Physical Society.**
Friedrichshafen	28.16	715.2	29.62	752.3	38.8	3.8	73	s.	.....	.....	1	.....	4	sw.	.....	0	0	.....	**Wilhelm, Chief Tel.**
Hamburg	29.69	754.0	29.78	759.3	26.8	— 2.9	83	e.	.....	.....	4	.....	10	.....	.....	0	0	hazy	**E. Preller.**
Kiel	29.81	757.2	29.83	757.0	28.4	— 2.0	74	e.	.....	.....	3	.....	10	.....	.....	0	0	.....	**Prof. Dr. G. Karsten.**
Leipsic, Astron'l Obs'y	29.30	744.1	29.72	755.0	35.6	2.0	77	ene.	.....	.....	3	.....	4	se.	.....	0	0	.....	**H. Leppig, Asst.**
Magdeburg	29.56	750.9	29.76	755.9	31.5	— 0.3	83	ene.	.....	.....	3	0	7 ks	.....	se.	0	0	.....	**Weather Observatory.**
Memel	30.38	771.7	30.43	772.9	12.0	—11.1	100	se.	.....	.....	3	2 c	0	.....	.....	.....	.....	.....	**Issermann.**
Munich	27.74	704.5	29.57	751.1	39 6	4.2	73	n.	.....	.....	2	.....	3	s.	.....	0	0	.....	**Central Station.**
Neufahrwasser	30.26	768.5	30.27	768.9	21.6	— 5.8	60	se.	.....	.....	3	.....	0	.....	.....	0	0	.....	**A. Lothes.**
Neustadt, Palatinate	29.07	738.4	29.59	751.6	36.0	2.2	68	calm	.....	.....	0	.....	2	w.	.....	0	0	.....	**Dicknether.**
Stuttgart	28.63	727.2	29.54	750.4	35.6	2.0	64	ne.	.....	.....	1	.....	3	.....	.....	0	0	foggy	**Prof. Dr. Schoder.**
Wustrow	29.89	759.3	29.92	759 9	27.1	— 2.7	87	ese.	.....	.....	4	0	3 s	.....	.....	0	0	.....	**Profs. Brandes & Reimer.**
GREEK.																			
Athens	29.51	749.6	29.89	759.3	63.5	17.5	.....	s.	.....	.....	1.0	0	8 k	.....	.....	0	0	.....	**Schmidt & Wourlisch.**
INDIAN.																			
Kurrachee	29.99	761.8	30.04	763.1	76.9	24.9	42	wsw.	15.0	6.7	.....	.....	0	.....	.....	0	0	blue sky	
Deesa	29.47	748.4	29.94	760.5	82.4	28.0	24	ssw.	5.0	2.2	.....	.....	4	sw.	.....	0	0	d. clouds	
Bombay	29.88	759.0	29.92	760.0	82.1	27.8	65	w.	7.0	3.1	.....	.....	1	wnw.	.....	0	0	d. clouds	
Poona, Yarrowda	28.06	712.8	29.92	759.9	80.8	27.1	27	e.	9.0	4.0	.....	.....	2	wsw.	.....	0	0	d. clouds	
Belgaum	27.37	695.2	29.91	759.8	76.2	24.6	40	ese.	10.0	4.5	.....	.....	5	ne.	.....	0	0	d. clouds	
Lahore	29.24	742 7	30.01	762.2	66.6	19.2	39	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	29.08	738 5	30.00	762.1	66.8	19.3	37	calm	0	0	.....	.....	0	.....	.....	0	0	.....	
Agra	29.47	748.6	30.06	763.4	68.7	20.4	47	w.	.....	.....	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.94	735.0	29.99	761.7	77.5	25.3	37	calm	2.0	0.9	.....	.....	3	w.	.....	0	0	d. clouds	
Jubbulpore	28.67	728.1	30.05	763 4	70.8	21.6	32	n.	4.0	1.8	.....	.....	4	.....	ne.	0	0	d. clouds	
Lucknow	29.65	753.1	30.05	763.2	63.3	17.4	59	w.	5.0	2.2	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.73	755.2	30.06	763.5	61.1	16.2	77	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.86	758.5	30.06	763.4	65.2	18.4	54	w.	3.4	1.5	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.96	710.3	30.06	763.4	60.5	15.8	49	n.	4.7	2.1	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.94	760.4	30.02	762.5	72.0	22.2	60	calm	0	0	.....	.....	3	.....	.....	0	0	d. clouds	
Calcutta, Alipore	30.02	762 4	30.04	763.0	66.1	18.9	59	n.	0.3	0.1	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.91	759.6	30.03	762.8	66.6	19.2	63	calm	0.9	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.92	759.9	30.01	762.2	70.1	21.2	66	nnw.	2.1	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.71	754.6	30.06	763.5	64.3	17.9	77	ne.	1.0	0.4	.....	.....	10	w.	w.	0	0	d. clouds	
Zanzibar	29.78	756.3	29.80	756.9	86.8	30.4	60	ene.	12.7	5.7	.....	.....	0	.....	.....	0	0	blue sky	
Jeypore	28.56	725 5	30.04	763.1	69.7	20.9	50	w.	0.7	0.3	.....	.....	0	.....	.....	0	0	blue sky	
Bellary	28.46	722.9	.....	.....	77.5	25.3	45	e.	8	3.6	.....	4 c	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.67	753.6	.....	.....	79.7	26.5	59	e.	1	0.4	.....	2 c	0	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.28	743.8	29.71	754.5	45.9	7.7	87	nw.	1.8	0.8	.....	.....	10	.....	.....	0.319	8.1	.....	Prof. Giovanni Clodig.
Milan	29.14	740.2	29.68	753.9	36.7	2.6	93	sw.	6.3	2.8	.....	.....	9	sse.	.....	0.906	23.0	.....	Prof. Schiapparelli.
Padua	29.54	750.2	29.65	753.1	47.3	8.5	93	nne.	18.6	8.3	.....	.....	10	.....	.....	0.409	10.4	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.78	730.9	29.72	754.9	38.1	3.4	95	nw.	0	0	.....	.....	10	.....	.....	0.205	5.2	.....	Prof. F. F. Denza.
Genoa	29.34	745.2	29.53	750.1	47.8	8.8	68	ne.	15.0	6.7	.....	.....	10	n.	.....	1.705	43.3	.....	Prof. G. M. Garibaldi.
Mondovi	27.77	705.3	29.76	755.8	37.2	2.9	88	w.	.....	.....	2	.....	10	.....	.....	2.169	55.1	.....	Prof. D. C. Bruno.
Pesaro	29.47	748.4	29.52	749.7	48.2	9.0	100	se.	1.8	0.8	.....	.....	10	.....	.....	0.094	2.4	.....	Prof. Luigi Guidi.
Florence	29.26	743.2	29.52	749.8	57.2	14.0	67	n.	.....	.....	4	.....	10	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.35	745.4	29.43	747.6	58.8	14.9	71	e.	9.4	4.2	.....	.....	5	ne.	.....	0	0	.....	Prof. P. Monte.
Rome	29.29	743.9	29.47	748.4	54.3	12.4	80	wsw.	9.4	4.2	.....	.....	10	ssw.	.....	0.303	7.7	.....	Prof. P. Tachini.
Lecce	29.34	745.3	29.60	751.8	61.3	16.3	73	wsw.	37.4	16.7	.....	.....	10	s.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	28.63	727.3	29.53	750.1	54.7	12.6	77	sse.	1.8	0.8	.....	.....	10	se.	.....	0.047	1.2	.....	Prof. D. Conti.
Cagliari	29.13	739.8	29.32	744.8	60.4	15.8	62	nw.	.....	.....	2	.....	5	s.	.....	0.020	0.5	.....	Prof. A. Pacinotti.
Palermo	29.13	739.9	29.38	746 3	60.3	15.7	56	calm	0	0	.....	.....	9	.....	.....	0.228	5.8	.....	Prof. G. Cacciatore.
Syracuse	29.38	746.3	29.43	747.4	60.4	15.8	84	s.	6.3	2.8	.....	.....	10	ssw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	28.93	734 9	29.45	747.9	55.6	13.1	84	n.	0	0	.....	.....	10	ese.	.....	0.189	4.8	.....	Prof. F. Brioschi.
Stelvio	21.84	554.8	.....	.....	27.1	— 2.7	96	ne.	.....	.....	2	.....	8	.....	.....	0.118	3.0	misty	Prof. P. F. Denza.
Valdobbia	21.85	554.9	.....	.....	24.1	— 4.4	71	ne.	.....	.....	2	.....	10	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.26	768.6	30.29	769.4	21.9	— 5.6	74	calm	.....	.....	0	.....	10 ck	.....	w.	0.012	0.3	cloudy	Hattori.
Awomori	30.23	767 8	30.27	768.8	19.5	— 6.9	84	ssw.	3.7	1.6	.....	.....	10 ks	.....	.....	0.033	0.8	overcast	K. Ogawa.
Hakodate	30.24	768.2	30.26	768.5	10.5	—11.9	100	n.	4.2	1.9	.....	0	2	.....	.....	0	0	clear	
Hamamatsu	30.12	765.0	30.15	765.7	38.4	3.6	69	w.	.....	.....	6	1 c	0	w.	.....	0	0	clear	
Kagoshima	30.27	768.8	30.28	769.1	39.5	4.2	86	n.	.....	.....	2	0	0	.....	.....	0	0	clear	G. Miyanohaza.
Kioto	30.10	764.5	30.28	769.1	39.0	3.9	72	nnw.	1.7	0.7	.....	.....	10s;ck	.....	.....	trap	trap.	cloudy	M. Tojima.
Kochi	30.21	767.2	30.23	767.7	42.1	5.6	85	n.	2.3	1.0	.....	8	0	w.	.....	0	0	cloudy	K. Kusunose.
Miasaka	30.23	767.7	30.25	768.4	45.3	7.4	76	calm	.....	.....	0	0	1 ck	.....	w.	0	0	fair	K. Masusaki.
Nagasaki, I. M. Obs'y	30.08	764.0	30.29	769.4	40.4	4.7	89	calm	0	0	.....	1 cs	0	wsw.	.....	0	0	clear	S. Takehayashi.
Niigata	30.25	768.3	30.28	769.1	33.1	0.6	77	n.	5.2	2.3	.....	.....	10 n	.....	n.	0.105	2.7	light snow	M. Morita.
Nobiru	30.26	768.6	30.28	769.0	24.5	— 4.2	100	ne.	12.5	5.6	.....	1 ck	2 s	w.	.....	0	0	fair	H. Midzushina.
Numazu	30.10	764.6	30.14	765.5	45.3	7.4	64	e.	.....	.....	4	.....	9 ks	.....	.....	0	0	cloudy	R. Kaneda.
Sakai	30.29	769.2	30.30	769.5	40.0	4.4	75	ne.	.....	.....	6	.....	10 n	.....	e.	0.035	0.9	light rain	K. Yamawchi.
Sapporo	.....	.....	.....	.....	17.2	— 8.2	80	calm	0	0	.....	.....	10	.....	nw.	0.055	1.4	snowing	
Tokei Obs'y, Yeddo	30.13	765.3	30.21	767 3	40.5	4.7	52	n.	12.1	5.4	.....	1 ck	0	w.	.....	0.005	0.1	cloudy	The Staff.
Wakayama	30.22	767.7	30.28	769.1	37.2	2.9	76	nne.	1.4	0.6	.....	.....	10s;ks	.....	.....	0	0	clear	Y. Kuwamoga.
Osaka	30.27	768.8	30.28	769.2	36.0	2.2	82	n.	1.7	0.7	.....	.....	10s;ck	.....	ne.	0	0	cloudy	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.64	752.8	29.83	757.7	79.4	26.3	78	ne.	17.0	7.6	.....	.....	10n;ks	.....	ene.	0.47	11.9	overcast	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	55	12.8	100	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	dense fog	H. Diaz Pena.
Guanajuato	23.68	601.4	29.90	759.4	47.5	8.6	87	ssw.	lmp.	lmp.	.....	1 c	0	sw.	.....	0	0	foggy	Prof. Vicente Fernandez.
Leon	24.34	618.2	30.20	767.1	44.4	6.9	84	nnw.	.....	.....	1	0	4 cks	.....	.....	0	0	light fog	Prof. M. Leal.
Mazatlan	29.82	757.3	30.08	764.1	64.0	17.8	78	e.	0	0	.....	0	0	.....	.....	0	0	light fog	F. Quijano, U. E.
Mexico, Central Obs'y	23.13	587.5	30.34	770.7	24.47	5.81	78	nw.	3.6	1.6	.....	0	0	.....	.....	0	0	fine	The Staff.
Morelia	24.26	616.3	30.12	765.1	43.3	6.3	69	s.	.....	.....	2	4 k	4 k	s.	s.	0	0	cloudy	M. Tena, M. D.
Puebla, Catholic Institute	23.41	594.0	30.31	770.0	44.4	6.9	71	calm	0	0	.....	0	8	.....	s.	0	0	clouds	Prof. P. Spina.
Zacatecas	22.51	571.7	30.26	768.5	44.5	7.0	84	sw.	5.2	2.3	.....	3 c	7 ns	sw	sw.	0	0	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.58	751.4	29.58	751.4	34.9	1.6	.....	ese.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	29.60	751.8	29.65	753.2	29.8	— 1.2	.....	ese.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Hellevoetsluis	29.58	751.2	29.58	751.2	32.4	0.2	85	ne.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Utrecht	29.55	750.6	29.60	751.8	35.1	1.7	59	ene.	.....	.....	2	.....	2	.....	.....	0	0	lightly cld'y	H. van der Brink.
Sub-series.																			
Batavia, Java	29.85	758.2	.....	.....	79.5	26.4	86	n.	0	0	.....	.....	8	.....	.....	0	0	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.85	758.2	29.91	759.8	25.9	— 3.4	70	calm	0	0	.....	.....	2	.....	.....	0	0	.....	
Brono	29.95	760.6	29.98	761.6	23.2	— 4.9	69	calm	0	0	.....	.....	0	.....	.....	0	0	.....	
Christiania	30.11	764.8	30.27	768.8	21.9	— 5.6	75	e.	7	3	.....	.....	10	.....	.....	blank	blank	.....	.....
Glassvær	29.80	756.8	29.82	757.4	30.7	— 0.7	.....	ssw.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....
Lodingen	29.98	761.6	30.03	762.8	27.3	— 2.6	87	calm	.....	.....	0	.....	2	.....	.....	0.020	0.5	.....	.....
PORTUGUESE.																			
Angra, Azores	29.85	758.2	30.01	762.3	54.0	12.2	76	nnw.	15.0	6.7	.....	.....	5	.....	.....	0.197	5.0	.....	Dr. J. A. Sampaio.
Campo Major	28.91	734.4	29.92	760.0	54.0	12.2	76	wnw.	5.6	2.5	.....	.....	6	.....	.....	0.047	1.2	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.05	763.3	30.14	765.5	66.2	19.0	78	wsw.	7.4	3.3	.....	.....	4	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.62	752.4	29.98	761.6	56.5	13.6	64	sw.	13.0	5.8	.....	.....	5	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	29.95	760 7	30.02	762.5	57.2	14.0	80	nne.	13.0	5.8	.....	.....	3	w.	.....	0.043	1.1	.....	
Saint Paul de Loando	29.09	754.1	29.89	759.2	82.8	28.2	84	wsw.	2.5	1.1	.....	.....	4	sse.	.....	0	0	.....	
Serra da Estrella	24.89	632.2	29.05	753.0	39.2	4.0	53	w.	26.2	11.7	.....	.....	6	.....	.....	.....	.....	foggy	
RUSSIAN.																			
Akmollinski	28.94	735.1	30.15	765.7	— 0.2	—17.9	89	ssw.	27	12	.....	.....	10 n	.....	.....	.....	.....	.....	Major K. Lasarew.
Archangel	30.08	764.1	30.10	764.6	— 0.8	—18.2	88	wnw.	9	4	.....	0	4 ks	.....	.....	0.079	2.0	.....	Capt. Sselliwerstow.
Ashurada	30.35	770.9	30.26	768.5	45.7	7.6	76	wsw.	11	5	.....	5 ck	0	.....	.....	0	0	.....	
Astrakhan	30.37	771 4	30.29	769.3	9.0	—12.8	73	nw.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.30	769.6	30.25	768.4	38.8	3.8	80	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Barnaul	29.71	754.7	30.26	768.5	15.6	— 9.1	79	sw.	9	4	.....	.....	9	.....	.....	lmp.	lmp.	.....	Meteorological Obs'y.
Bielosersk	29.79	756.7	30.32	770.2	— 5.8	—21.0	89	wsw.	4	2	.....	0	2 s	.....	.....	0	0	.....	
Dorpat	30.24	768.0	30.50	774.8	11.8	—11.2	97	sw.	4	2	.....	.....	1c n	.....	.....	0.004	0.1	light snow	Observatory.
Ekaterinburg	28.63	727.1	29.72	754.9	—16.6	—27.0	68	sw.	.....	.....	.....	2 cs	0	.....	.....	lmp.	lmp.	light clouds	Meteorological Obs'y.
Elissawetgrad	29.95	760.7	30.45	773.4	8.4	—13.1	80	calm	0	0	.....	0	3 s	.....	.....	0	0	light clouds	
Irkutsk	28.91	734.4	30.80	782.3	— 6.5	—21.4	86	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Kasan	29.67	753.6	29.98	761.5	—15.7	—26.5	71	w.	2	1	.....	.....	0	.....	.....	0	0	.....	Observatory.
Kem	30.16	766.0	30.21	767.3	7.2	—13.8	96	w.	4	2	.....	0	3 ks	.....	.....	0	0	.....	
Kertch	30.28	769.1	30.30	769.6	25.9	— 3.4	95	calm	0	0	.....	0	8 n	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.73	755.1	30.44	773.2	6.8	—14.0	100	nne.	4	2	.....	.....	10ks;n	.....	.....	0	0	.....	Observatory.
Koslov	29.70	754.3	30.30	769.5	— 5.6	—20.9	85	wnw.	9	4	.....	3 cs	0	.....	.....	0	0	.....	
Libau	30.39	771.8	30.41	772.4	14.2	— 9.9	80	e.	9	4	.....	.....	0	.....	.....	0	0	.....	E. Quass.
Lugan	30.12	765.0	30.33	770.3	8.4	—13.1	72	wsw.	4	2	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.84	757.8	30.39	771.9	— 6.0	—21.1	83	nw.	7.8	3.5	.....	0	6 ks	.....	.....	0	0	.....	
Nikolaiev	30.30	769.7	30.38	771.6	10.8	—11.8	82	ne.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.34	770.6	30.43	772.8	—17.0	—27.2	66	w.	11	5	.....	.....	2	.....	.....	0	0	.....	Iwanow.
Pekin, China	30.32	770.2	30.47	773.8	19.2	— 7.1	84	calm	0	0	.....	0	1 k	.....	.....	0	0	.....	Physicia Observatory.
Petrozavodsk	30.08	764.0	30.30	769.7	— 0.1	—17.8	89	wnw.	11	5	.....	7 ck	0	.....	.....	0.028	0.7	.....	Dr. Bergmann.
Pinsk	29.89	759.1	30.44	773.2	5.4	—14.8	96	e.	13	6	.....	.....	10 s	.....	.....	0	0	.....	
Poti	30.21	767 3	30.23	767.8	30.0	— 1.1	92	e.	4	2	.....	.....	10 n	.....	.....	0	0	.....	
St. Petersburg	30.45	773.3	30.46	773.7	7.5	—13.6	92	w.	9	4	.....	.....	10	.....	.....	lmp.	lmp.	light snow	Central Physical Obs'y.
Samarkand	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Sevastopol	29.95	760.8	30.12	765.0	39.7	4.3	82	n.	4	2	.....	.....	9 n	.....	.....	0	0	.....	
Semipalatinsk	29.78	756 5	30.51	774.9	5.7	—14.6	91	w.	9	4	.....	.....	3	.....	.....	lmp.	lmp.	.....	Major Lasarew.
Staroi Bykhov	30.01	762.3	30.52	775 3	9.5	—12.5	69	ne.	7	3	.....	.....	10 ks	.....	.....	0.004	0.1	.....	
Tiflis	28.75	730.2	30.22	767.6	39.0	3.9	34	nw.	9	4	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Tomsk	29.72	754.8	30.01	762.2	26.4	— 3.1	51	se.	16	7	.....	.....	10	.....	.....	.....	.....	.....	
Vlatka	29.18	741.1	29.90	759.5	—22.7	—30.4	.....	nw.	4	2	.....	.....	0	.....	.....	0	0	.....	
Warsaw	29.76	755.8	30.22	767.5	16.9	— 8.4	79	se.	20	9	.....	c	6 ks	.....	.....	0	0	.....	Astronomical Obs'y.

STATIONS.	Barometer: Corrected for instrumental error and for temperature.		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From	Inch.	Mill.		
Russian.—Continued.																			
Wilna	30.04	762.9	30.50	774 8	10.6	—11.9	49	calm	0	0			9			0	0	heavy clouds	**Berg, Assistant.**
Yeniseisk	30.06	763.6	30.38	771.7	1.0	—17.2	86	e.	2	1			0			0	0		**M. O. Marks.**
Scottish.																			
Monach Lt			29.13	739.9	44	6.7	92	se.			7		10					raining	**J. Youngclauss.**
North Unst			29.74	755.4				s.			8		10			blank	blank		**Robt. Burnet.**
Spanish.																			
Barcelona, Met. Obs'y	29.46	748.3	29.56	750.9	55.4	13.0	62	sw.	2.0	0.9		0	0			0.035	0.9	clear	**Antonio Rave, Director.**
Bilbao, Met. Obs'y	29.72	754.9	29.78	756.4	57 9	14.4	66	nw.	2.0	0.9		3	4	w.		0.366	9.3	cloudy	**Prof. Manuel de Naveran.**
Burgos, Met. Obs'y	26.83	681.5	29.87	758.7	41.4	5.2	84	w.	5.4	2.4			6			0	0	cloudy	**Domingo Martin.**
Madrid, Royal Obs'y	27.57	700.2	29.81	757.2	49.6	9.8	63	w.	15.9	7.1		0	0			0.055	1.4	clear	**The Staff.**
Murcia, Met. Obs'y	29.60	751.8	29.73	755.2	58.6	14.8	61	nnw.	7.8	3.5		1	1	ese.		0	0	almost clear	**Olayo Diaz, Director.**
Oviedo	28.87	733.2	29.73	755.1	48.2	9.0	88	e.	4.9	2.2		5 n	5 n	w.	e.	0.173	4.4	covered	**Prof. L. G. Frades.**
Santiago, Met. Obs'y	28.85	732.7	29.74	755.5	50.4	10.2	88	s.	8.7	3.9			10			0.213	5.4	covered	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.89	759.2	29 95	760.6	77.0	25.0	75	ne.	9.8	4.4		0	0			0	0	clear	**P. F. Faura, S. J.**
San Fernando, Naval Obs'y	29.92	759.9	30.02	762.5	58.6	14.8	71	nw.	14.0	6.3		0	5		wnw.	0	0	....	**Capt. C. Pujazon, R. N.**
San Juan de Porto Rico, W. I	30.02	762.4	30.11	764.7	81.3	27.4	86	e.	9.2	4.1		5 cs	3 k	e.	e.	0	0	d clouds	**Manuel Maesa.**
Swedish.																			
Hapsaranda	30.24	768.0	30.28	769.0	0.3	—17.6	100	se.			2		10			0	0		
Umea	30.19	766.8	30.24	768.1	21.2	— 6.0		w.			2		10			0	0		
Hernosand	30.15	765.9	30.21	767.2	16.9	— 8.4	94	calm			0		10			0	0	....	
Stockholm	30.16	766.1	30.34	770.6	26.2	— 3.2	74	s.			2		10			0	0		
Wisby	30.28	769.1	30.34	770.6	24.8	— 4.0	77	sse.			2	....	3			0	0		
Sub-series.																			
Upsala	30.23	767.8	30.32	770.0	19.4	— 7.0	89	wsw.	0	0			8		sw.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28.20	716.2	29.68	753.9	48.0	8.9	60	sw.			1		1			0	0	clear	**The Observatory.**
Turkish.																			
Constantinople			30.07	763 7	51.3	10.7	65	ene.	3	1.5			9		sw.	0	0		The Observatory.
Valona			29.71	754.7	68.4	20.2		se.			2		10			0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.07	763.7	64.6	18.1	68	n.			1	6 c	0	w.		0	0		**Prof. C. V. A. van Dyck.**
Samokov, Bulgaria	26.67	677.4			34	1.1	85	calm			0		10 c		ne.	0	0	cloudy	**Fred L. Kingsbury.**
United States.																			
Albany, New York	29.73	755.1	29.82	757-4	35	1.7	64	nw.	10	4.5			10 s			0.15	3.8	cloudy	**J. O. Barnes.**
Alpena, Michigan	29.28	743.7	29.99	761.7	14	—10.0	80	w.	15	6.7		0	4 ks		w.	0.02	0.5	fair	**Jas. J. Fitzgerald.**
Apache, Fort, Arizona	24.93	633.2	30.05	763.3	29	— 1.7	80	e.	2	0.9			10 s			0	0	cloudy	**W. O. Barnes.**
Assinnaboine, Ft., Montana	27.10	688.3	30.14	765.5	— 1	—18.3	72	calm	0	0		0	5 s			0	0	fair	**B. O. Lenoir.**
Atlanta, Georgia	28.94	735.1	30.17	766.3	32.0	0.0	78	nw.	18	8.0		0	8 k		nw.	0.76	19.3	clearing	**H. C. Smith.**
Atlantic City, New Jersey	29.87	758.7	29.88	758.9	38	3.3	100	w.	5	2.2			10 n			0.69	17.5	light snow	**Jas. M. Watson.**
Augusta, Georgia	29.87	758.7	30.07	763.8	49	9.4	93	nw.	1	0.4			10 n		nw.	0.22	5.6	light rain	**John Henly.**
Baltimore, Maryland	29.88	758.9	29.93	760.2	39	3 9	89	w.	1	0.4			ion fg			0.84	21.3	light rain	**Geo W Felger**
Barnegat, New Jersey	29.84	757.9	29.80	758.4	38.0	3.3	96	sw.	5	2.2			10 n		w.	0.22	5.6	light rain	**G. A. Hill.**
Behring Id., Behring Sea	29.47	748.5	29.49	749.0	29.1	— 1.6		ne.	48	21.5			10 n			0.02	0.5	cloudy	**Leonard Steineger.**
Bennett, Fort, Dakota	28.53	724 6	30.27	768.8	— 5	—20.6	81	calm	0	0		0	4 s			0	0	fair	A. Pritchard
Benton, Fort, Montana	27.11	688.6	30.09	764.3	8	—13.3	58	calm	0	0		0	0			0	0	clear	**S. Wheaton.**
Billings, Montana	26.63	676.4			17	— 8.3		w.	12	5.4			10 s			0	0	cloudy	**T. Gibson.**
Bismarck, Dakota	28.18	715.8	30.17	766.3	—18	—27.8	100	ne.	2	0.9		0	0			0	0	clear	**Cyrus Cramer.**
Block Island, Rhode Island	29.81	757.2	29.84	757.9	40	4.4	89	w.			2		10 n		w.	0.55	14.0	light rain	**J. T. Elker.**
Boise City, Idaho	27.17	690.1	30.10	764.5	19.5	— 6.9	91	ne.	2	0.9			10 s			0	0	cloudy	**B. E. Light**
Boston, Massachusetts	29.62	752.3	29.79	756.7	41.5	5.3	100	sw.	6	2.7			10 n			0.31	7.9	light rain	**O. B. Cole.**
Brownsville, Texas	30.22	767.6	30.27	768.8	43.0	6.1	60	n.	10	4.5			10 s		n.	0	0	cloudy	**M. McCarty.**
Buford, Fort, Dakota	29.20	741.7	30.00	762.0	19	— 7.2	86	sw.	37	16.5			10 n		sw.	0.25	6.3	light snow	**W. Finn.**
Burlington, Vermont	28 04	712.2	30.24	768.1	—14	—25.6	49	ne.	4	1.8			10 s			0	0	cloudy	**F. A. Mellen.**
Cairo, Illinois	29.45	748.0	29.70	755.9	30.6	— 0.8	79	nw.	11	4.9			10 s		w.	0	0	cloudy	**G. C. Schaeffer.**
Cape Henry, Virginia	30.01	762.2	30.43	772.9	19.0	— 7.2	70	n.	9	4.0		0	0			0.21	5.3	clear	**W. H. Ray.**
Cape May, New Jersey	29.88	758.9	29.90	759 4	52	11.1	93	sw.	15	6.7			10 ks		s.	0	0	cloudy	**A. K. Alderson.**
Cape Mendocino, California	29.47	748.5	30.17	766 3	39.0	3.9	89	w.	16	7.2			10 s			0.09	2.3	cloudy	**W. E. Smith.**
Cedar Keys, Florida	30 00	763.5	30.08	764.0	56	13.3	86	nw.	20	8.9		2 k	0	nw.		0	0	clear	**J. J. McLean.**
Champaign, Illinois	29.48	748.8	30.34	770.6	3.0	—16.1	57	s.	10	4.5		0	8 ks		sw.	0	0	cloudy	**F. W. Mixer.**
Charleston, S. Carolina	29.95	760 7	30.01	762.2	56	13.3	93	w.	12	5.4		0	0			0	0	clear	**L. A. Welsh**
Charlotte, N. Carolina	29.12	739 6	30.01	762.2	38.0	3.3	89	sw.	16	7.2		0	8 s		sw.	0.02	0.5	cloudy	**J. H. Smith.**
Chattanooga, Tennessee	29.41	747.0	30.27	768.8	25.0	— 3.9	73	nw.	3	1.3			10 n			0.34	8.6	light rain	**D. O'Donoghue.**
Cheyenne, Wyoming	23 75	603.2	30.01	762.2	38.0	3.3	89	n.	9	4.0		0	4 ks		n.	1.79	45.5	fair	**B. L. Goulding.**
Chicago, Illinois	29.52	749.8	30.26	768.6	— 1.9	—18.8	72	s.	1	0.4		0	0			0	0	clear	**E. McGovern.**
Chincoteague, Virginia	29.87	758.7	29.89	759 2	44.5	6.9	100	w.	10	4.5		0	0			0	0	clear	**J. Mitchell.**
Cincinnati, Ohio	29.64	752.8	30.32	770.1	20	— 6.7	84	sw.	11	4.9			fg.			0.22	5.6	dense fog	**C. F. Dickens.**
Cleveland, Ohio	29.39	746.5	30.17	766.3	12.8	—10.7	80	w.	16	7.2			10 s		sw.	0.21	5.3	cloudy	**R. B. Watkins.**
Coleman City, Texas															nw.	0.01	0.3	cloudy	**J. B. Newlin.**
Columbus, Ohio																			L. Dorman.
Concho, Fort, Texas	29.33	745.0	30.23	767.8	15	— 9.4	67	sw.	14	6.3			10 s			0.18	4.6	cloudy	**D. Cuthbertson.**
Davenport, Iowa	28.25	717.5	30.27	768.8	23.2	— 4.9	73	calm	0	0		0	0			0	0	clear	**J. McClone.**
Davis, Fort, Texas	29.66	753.4	30.37	771.4	1	—17.2	42	w.	7	3.1		0	0			0	0	clear	**W. B. Lamar.**
Dayton, Washington T'y	25.16	639.1	30.14	765.5	32	0.0	65	calm	0	0		0	7 s			0	0	fair	**J. Williams.**
Deadwood, Dakota	28.33	719.6	30.13	765.3	27	— 2.8	88	n.	2	0.9		5 k	0	w.		0.10	2.5	fair	**D. Moore.**
Delaware Breakwater, Del	25.15	638.8	30.09	764.3	— 1	—18.3	100	ne.	4	1.8		0	0			0	0	clear	**F. Willson.**
Denison, Texas	29.85	758.2	29.87	758.7	40	4.4	89	sw.	14	6.3			10 n		sw.	inap.	inap.	light rain	**T. S. Townsend.**
Denver, Colorado	29.50	749.3	30.34	770.6	22.0	— 5.6	87	n.	3	1.3		0	0			0	0	clear	**J. W. Byram.**
Des Moines, Iowa	24.49	622.0	30.01	762.2	11.0	—11.7	83	se.	4	1.8		0	0			0	0	clear	**F. M. Neal.**
Detroit, Michigan	29.43	747.5	30.40	772.1	— 9	—22.8	55	nw.	1	0.4		0	0			0	0	clear	**F. W. Conrad.**
Dodge City, Kansas	29.40	746.7	30.16	766.1	15.0	— 9.4	83	sw.	15	6.7			10 s		w.	inap.	inap.	cloudy	**C. F. R. Wappenhans.**
Dubuque, Iowa	27.44	697.0	30.19	766,8	15	— 9.4	67	e.	15	6.7		0	5 s		n.	0	0	fair	**V. P. Temple.**
Duluth, Minnesota	29.57	751.1	30.34	770.6	— 8.3	—22.4	31	w.	1	0.4		0	0			0	0	clear	**J. Harvey Smith.**
Eagle Pass, Texas	29.46	748.3	30.27	768.8	—22	—30.0	100	sw.	2	0.9		0	0			0	0	clear	**N. B. Conger.**
Eagle Rock, Idaho	29.51	749.5	30.35	770.9	29.0	— 1.7	67	calm	0	0		0	0			inap.	inap.	clear	**F. Belford.**
Eastport, Maine	25.20	640.1	30.16	766.1	9	—12.8	93	sw.	10	4.5			10 s		sw.	0.15	3.8	cloudy	**J. M. Clifford.**
Elliott, Fort, Texas	29.62	752.3	29.98	753.9	30.0	2.2	89	sw.	12	5.4			10 s		sw.	0.51	13.0	cloudy	**D. C. Murphy.**
El Paso, Texas	27.26	692.4	30.19	766.8	14	—10.0	53	sw.	12	5.4		0	0			0	0	clear	**W. J. Cundall.**
Erie, Pennsylvania	26.18	665.0	30.06	763.5	36.2	— 2.3	58	calm	0	0			10 s			0	0	cloudy	**J. O'Dowd.**
Escanaba, Michigan	29.32	744.7	30.09	764.3	19	— 7.2	84	sw.	12	5.4			10 s			0.50	12.7	cloudy	**Peter Wood.**
Fredericksburg, Texas	29.39	746.5	30.11	764.8	8.0	—13.3	87	nw.	10	4.5			8 s		nw.	0.07	1.8	cloudy	**George Heathcote.**
Galveston, Texas	28.43	722.1	30.25	768.3	27	— 2.8	77	ne.	1	0.4		0	0			0	0	clear	**Frank Halwegler.**
Grand Haven, Michigan	30.22	767.6	30.27	768.8	38	3.3	92	ne.	24	10.7		0	hz.			1.01	25.7	clear	**E. O'C. Machernay.**
Grant, Fort, Arizona	29.43	747.5	30.14	765.5	17.5	— 8.1	83	w.	23	10.3			10 n		w.	0.10	2.5	light snow	**J. E. Mueller.**
Hatteras, North Carolina	25.99	637.3	29.99	761.7	42	5.6	54	calm	0	0			10 s			0	0	cloudy	**Robert C. Lord.**
Helena, Montana	29.96	761.0	29.98	761 5	49	9.4	100	sw.	13	5.8			10 s		sw.	0.47	11.9	threatening	**R. M. Crawford.**
Henrietta, Texas	25.04	651.2	30.06	763.5	19	— 7.2	87	sw.	2	0.9		0	0			0	0	clear	**N. C. Smith.**
Huron, Dakota																			**J. P. Sherry.**
Indianapolis, Indiana	28.80	731.5	30.34	770.6	— 7.8	—22.1	61	se.	6	2.7		0	0			inap.	inap.	clear	**S. W. Glenn.**
Indianola, Texas	29.47	748.5	30.31	769.9	9.5	—12.5	66	nw.	6	2.7			10 ks		nw.	0.05	1.3	cloudy	**J. F. Jirdinston.**
Jacksboro, Texas	30.23	767.8	30.26	768.6	38.1	3.4	57	ne.	26	11.6		0	0			inap.	inap.	clear	I. A. Reed.
Jacksonville, Florida	29.11	739.4	30.35	770.9	22	— 5.6	88	n.	4	1.8		0	7 8		nw.	0	0	fair	**D. J. Carr.**
Keogh, Fort, Montana	30.02	762.5	30.07	763 8	56	13.3	86	s.	5	2.2		3 cs	7 8		sw.	0	0	cloudy	**J. W. Smith.**
Keokuk, Iowa	27.42	696.5	30.11	764.8	— 4	—20.0	68	calm	0	0		0	5 8			0	0	fair	**A. Schneider.**
																0	0		**F. Z. Goswisch.**

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.12	765.0	30.14	765.5	70.0	21.1	94	s.	6	2.7		3 ck	0	sw.		0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	29.94	760.5	29.96	761.0	51	10.6	90	sw.	10	4.5			10 s	sw.		0.18	4.6	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.20	741.7	30.28	769.1	23.2	— 4.9	88	n.	8	3.6		0	8 s	n.		1.49	37.8	clearing	J. A. Cody.
La Crosse, Wisconsin	29.48	748.8	30.32	770.1	—12	—24.4	100	w.	3	1.3		0	0			trap.	trap.	clear	S. C. Emery
Leavenworth, Kansas	29.44	747.8	30.40	772.1	13	—10.6	80	calm	0	0		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.31	744.5	30.18	766.6	26.0	— 3.3	88	calm	0	0		0	0			0.10	2.5	clear	W. Bell.
Little Rock, Arkansas	30.05	763.3	30.38	771.6	25	— 3.9	94	n.	5	2.2		0	0			0.02	0.5	clear	W. U. Simons.
Los Angeles, California	29.62	752.3	30.02	762.5	45	7.2	83	w.	2	0.9		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.73	755.1	30.32	770.1	18	— 7.8	67	w.	6	2.7		0	0			0.16	4.1	clear	L. M Dey.
Lynchburg, Virginia	29.21	741.9	29.93	760.2	37	2.8	89	sw.	2	0.9			10 n			0.53	13.5	light rain	Louis Duane.
Mackinaw City, Michigan	29.31	744.5	30.01	762.2	15.0	— 9.4	67	nw.	21	9.4			10 s	nw.		0.40	10.2	cloudy	F. R. Day.
Macon, Fort, North Carolina	29.96	761.0	29.97	761.2	51.0	10.6	93	sw.	15	6.7			10 s	sw.		0	0	cloudy	William Daly.
Madison, Wisconsin	29.18	741.2	30.27	768.8	—10	—23.3	51	nw.	8	3.6		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.37	644.4	29.92	760.0	12	—11.1	64	w.	4	1.8			10 s	calm		0.01	0.3	cloudy	F. Burke.
McKavett, Fort, Texas	27.85	708.4	30.28	769.1	25	— 3.9	76	ne.	1	0.4		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.27	743.4	30.05	763.3	10	—12.2	58	w.	11	4.9		0	1 k	w.		0.12	3.0	clear	J. Gilligan.
Memphis, Tennessee	30.03	762 7	30.39	771.9	21	— 6.1	87	nw.	11	4.9		0	0			0 30	7.6	clear	D. T. Flannery
Milwaukee, Wisconsin	29.43	747.5	30.23	767.8	— 7	—21.7	100	nw.	20	8.9		0	0			0	0	clear	W. Line
Missoula, Fort, Montana	26.65	676.9	30.11	764.8	9	—12.8	60	w.	4	1.8		0	4 s			0.10	2.5	fair	I. H. Young.
Mobile, Alabama	30.16	766.1	30.20	767.1	40	4.4	82	n.	9	4.0			10 s	n.		0.72	18.3	cloudy	C. A. Read.
Montgomery, Alabama	29.95	760.7	30.19	766.8	37.6	3.1	87	nw.	13	5.8			10 s	w.		0.61	15.5	cloudy	J. B. McLaughlin
Moorhead, Minnesota	29.20	741.7	30.31	769.9	—20	—28.9	100	w.	4	1.8		0	0			0.01	0.3	clear	H. Bessant.
Morgantown, W. Virginia	29.14	740.1	30.20	767.1	21.0	— 6.1	76	w.	13	5.8			10 s	w.		0.60	15.2	threatening	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.22	589.8	29.85	758.2	15.0	— 9.4	100	nw.	60	26.8			fg.	nw.		0.36	9.1	dense fog	S. W. Beall.
Nashville, Tennessee	29.74	755 4	30.35	770.9	21.0	— 6.1	76	n.	5	2.2		0	0			0.23	5.8	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.70	754.4	29.82	757.4	36	2.2	100	sw.	5	2.2			10 n			0.54	13.7	light rain	J. H. Sherman.
New London, Connecticut	29.80	756.9	29.85	758.2	36	2.2	100	sw.	6	2.7			10 n	sw.		0.73	18.5	light rain	J. G. Lynch.
New Orleans, Louisiana	30.15	765.8	30.21	767.3	41.0	5.0	70	n	11	4.9		0	0			1.50	38.1	clear	L. Dunne.
Newport, Rhode Island	29.79	756.7	29.84	757 9	40.1	4.5	96	sw.	12	5.4			10 n	sw.		0.62	15.7	light rain	W. McGillivray.
New York, New York	29.09	754.1	29.88	758.9	36	2.2	100	sw.	4	1.8			10 n			0.37	9.4	light rain	J. B. Merrill.
Norfolk, Virginia	29.87	758.7	29.90	759.4	50	10.0	93	sw.	8	3.6			10 s	sw.		0.04	1.0	threatening	Wm. Davis.
North Platte, Nebraska	27.07	687.6	30.19	766.8	11.6	—11.3	76	se.	5	2.2		0	0			0	0	clear	E. F. Brady.
Olympia, Washington Ty.	30.11	764.8	30.15	765.8	35.0	1.7	89	s.	6	2.7		0	4 s			0.14	3.6	fair	J. Dascomb.
Omaha, Nebraska	29.12	739.6	30.39	771.9	3.0	—16.1	63	calm	0	0		0	0			0	0	clear	A. Pollak.
Oogiaamie, Alaska	30.28	769.1	30.30	769.6	—34.0	—36.7		wnw.	11	4.9			0			0	0	clear	P. H. Ray.
Oswego, New York	29.55	750.6	29.90	759.4	27.0	— 2.8	77	w.	22	9.8			10 n	w.		trap.	trap.	light snow	J. G. Linsley.
Palestine, Texas	29.79	756.7	30.37	771.4	25.0	— 3.9	94	ne.	8	3.6		0	0			trap.	trap.	clear	L. M. Pindell.
Pensacola, Florida	30.14	765.5	30.17	766.3	44.2	6.8	89	n.	11	4.9			10 s			0.95	24.1	cloudy	M. McGauran.
Philadelphia, Pa.	29.79	756.7	29.90	759 4	39	3.9	89	sw.	3	1.3			10 n	sw.		0.09	17.5	light rain	T. T. Townsend.
Pike's Peak, Colorado	17.39	441.7	30.09	764.3	— 4	—20.0	100	sw.			7	0	5 s			0	0	fair	H. Hall.
Ploche, Nevada	23.88	606.5	30.08	764.0	19	— 7.2	61	nw.	10	4.5		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.32	744.7	30.17	766.3	18.0	— 7.8	84	sw.	12	5.4			10 s	sw.		0.05	1.3	cloudy	W. A. Reid.
Poplar River, Montana	27.84	707.1	30.19	766.8				w.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.17	766.3	30.18	766.6	49.4	9.7	94	n.	25	11.2			10 s	n.		1.22	31.0	cloudy	H. B. Boyer.
Port Huron, Michigan	29.37	746.0	30.10	764.5	13.8	—10.1	83	sw.	15	6.7		10 cs	0			0.04	1.0	cloudy	W. O. Bailey.
Portland, Maine	29.05	753.1	29.70	754.4	39	3.9	82	sw.	8	3.6			10 s	sw.		0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.01	763.0	30.11	764.8	37.5	3.1	87	s.	8	3.6			10 s	s.		0.87	22.1	cloudy	M. L. Hearne.
Portsmouth, N. C.					52	11.1	100	s.			2		10 n	sw.		0.21	5.3	light rain	F. S Coburn.
Prescott, Arizona	24.61	625.1	29.99	761.7	37	2.8	82	e.	2	0.9		0	6 s	w.		0	0	fair	W. H. Clendenon.
Provincetown, Mass.	29.77	759.1	29.80	756.9	40	4.4	89	sw.	8	3.6			10 n			0.34	8.6	light rain	P. T. Jenkins.
Punta Rassa, Florida	30.09	764.3	30.10	764.5	62	16.7	90	se.	9	4.0		4 c	1 ks	sw.	se.	0	0	fair	W. J. Evans.
Red Bluff, California	29.77	759.1	30.14	765.5	35	1.7	53	n.	8	3.6		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.22	742.2	29.93	760.2	19	— 7.2	84	sw	28	12.5		3 k	3 k	w.	w.	trap.	trap.	fair	E. W. McGann
Roseburg, Oregon	29.63	752.6	30.20	767.1	30	— 1.1	94	e.	2	0.9			10 s			trap.	trap.	cloudy	J. J. Nunry.
Sacramento, California	30.09	764.3	30.17	766.3	34.6	1.4	89	calm	0	0			10 s		se.	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.78	756.4	30.42	772.7	10.7	—11.8	83	nw.	8	3.6		0	0			trap.	trap.	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.18	766.0	30.20	768.6	4	—15.6	100	ne.	16	7.2		0	8n		ne.	0.29	7.4	light snow	A. P. Leavitt.
St. Paul, Minnesota	29.37	749.0	30.32	770.1	—17.0	—27.2	100	sw.	6	2.7		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.31	744.5	30.29	769.4	—30	—34.4	100	calm	0	0		0	0			0	0	clear	C. B Dilley.
Salt Lake City, Utah	25.60	650.2	30.17	766.3	23	— 5.0	64	calm	0	0			10 s			trap.	trap.	threatening	J. Craig.
San Antonio, Texas	29.58	751.3	30.31	769.9	32.0	0.0	50	n.	5	2.2		0	0			0	0	clear	T. J. Kenan.
San Diego, California	29.92	760.0	29.99	761.7	49.3	9.6	91	ne.	5	2.2		0	5 s			0.01	0.3	fair	A. C. Dobbins.
Sandusky, Ohio	29.48	748.8	30.20	767.1	14.3	— 9.8	80	w.	8	3.6			10 s			0.03	0.8	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.83	757.7	29.86	758.4	30.0	2.2	89	sw.	19	8.5			10 n			0.49	12.4	light rain	B. A. Blundon.
San Francisco, California	30.00	763.5	30.13	765.3	38	3.3	89	nw.	12	5.4			fg.	nw.		0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.01	584.4	30.00	763.5	30	— 1.1	54	s.	7	3.1			10 s	s.		0	0	cloudy	H. U. Jones.
Savannah, Georgia	29.94	760.5	30.04	763.0	57	13.9	86	sw.	6	2.7			10 ks	s.		0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.24	666.5	30.10	764.5	17	— 8.3	70	ne.	2	0.9			10 s			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	30.09	764.3	30.34	770.0	26	— 3.3	76	ne.	8	3.6		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	29.02	737.1	30.35	770.9	20.5	— 6.4	72	n	4	1.8		0	0			0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.14	613.1	30.00	762.0	34.5	1.4	80	calm	0	0		0	0			0	0	fair	N. D. Lane.
Sitka, Alaska	29.92	760.0	29.99	761.7	38.6	3.7	82	e.	10	4.5			10 n	e.		0.26	6.6	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.89	759.2	30.39	771.9	19.0	— 7.2	84	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	29.95	760.7	29.99	761.7	49	9.4	93	sw.	5	2.2			10 s	sw		0.12	3.0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.05	712.5	30.19	766.8	13.2	—10.4	66	w.	2	0.9		0	0			0.01	0.3	clear	H. Clifford.
Springfield, Illinois	29.66	753.4	30.39	771.9	11	—11.7	75	nw.	6	2.7		0	0			trap.	trap.	clear	T. B. Jennings.
Springfield, Missouri	28.86	733 0	30.38	771.6	16	— 8.9	74	nw.	3	1.3		0	0			0	0	clear	J. H. Bryce.
Starkville, Miss.	29.81	757.2	30.31	769.9	24	— 4.4	92	n.	13	5.8		0	0			1.71	43.4	clear	C. Dill.
Stevenson, Fort, Dakota	28.21	716.5	30.27	768.8	—21	—29.4	100	e.	4	1.8		0	0			0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.02	686.3	30.10	765.1	32	0.0	81	se.	12	5.4			4 8	se.		0	0	fair	A. J. Warren.
Tantcher's Island, Mass.	29.65	753.1	29.71	754.6	43.0	6.1	74	sw.	11	4.9			10 s			0.30	9.1	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.14	689.3	29.97	761.2	30.5	2.5	65	calm			0	0	3 s			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.47	748.5	30.21	767.3	13	—10.6	80	sw.	16	7.2			10 s	sw.		0.01	0.3	cloudy	A. Buell.
Tucson, Arizona	27.45	697.2	29.95	760.7	47	8.3	71	s.	3	1.3			10 s			0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.70	755.9	30.15	765.8	32	0.0	88	se.	6	2.7		0	3 s			trap.	trap.	clear	J. Daly.
Verde, Fort, Arizona					39	3.9	73	w.			1		10 s	w.		0	0	cloudy	D. Brooks.
Vicksburg, Mississippi	30.06	763.5	30.32	770.1	27.9	— 2.3	65	n.	6	2.7		0	0			2.25	57.1	clear	James Keneally.
Visalia, California	29.78	756.4	30.17	766.3	30.2	2.3	81	w.	3	1.3			10 s			0	0	cloudy	O. D. Stewart.
Washakie, Fort, Wyoming	24.25	615.9	30.04	763.0	3.9	—15.6	91	calm	0	0			9 s			0	0	cloudy	T. M. Ambler.
Washington, D. C.	29.82	757.4	29.94	760.5	37.0	2.8	93	calm	0	0			10n;fg			0.44	11.2	light rain	B. M. Purssell.
West Las Animas, Colorado	25.84	656.3	29.98	761.5	1.5	—16.9	74	w.	6	2.7		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.37	746.0	30.00	762.0	26	— 3.3	88	nw.	15	6.7			10 s			0.35	8.9	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.91	759.7	29.97	761.2	57	13.9	86	sw.	6	2.7			10 s	sw.		0.09	2.3	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.62	650.7	30.10	766.1	16	— 8.9	70	sw.	7	3.1		0	7 s	sw.		0	0	fair	J. Grover.
Yankton, Dakota	28.92	734.0	30.34	770.6	— 8	—22.2	58	sw.	2	0.9		0	0			0	0	clear	J. H. Attfield.
Yuma, Arizona	29.72	754.9	29.87	758.7	54.0	12.2	93	calm	0	0			10s	nw.		0	0	cloudy	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.01	559.0			54.0	12.2	82	nw.	1	0.4			9k8 8	ne.		0.48	12.2	cloudy	Joaquim Gomez.
Kingston, Jamaica, W. I.	30.08	764.0	30.09	764.3	71	21.7	81	n.	5	2.2		0	0			0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.02	762.5	30.02	762 8	77	25.0	91	e.			2		8 ks	e.		0	0	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Colombia	29.39	746.5	29.95	760.7	77	25.0	89	calm			0		10 ks	calm		0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.																			Earl Flint.
St. Paul, Kodiak Id., Alaska																0	0		W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallon.
York Factory, B. A.	29.73	755.1	29.80	756.9	—18.5	—28.1	66	nw.	10	4.5		3 c	1 s	nw.	nw.	0	0	fair	Forbes Bc & Wood

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Amethyst, S. 45° 25′, W. 63° 52′†	30.09	764.3	56	13.3	80	sse.			4		5	nnw.				2	sse.	d. clouds.
H. M. S. Audacious, N 16° 20′, E. 119° 20′	29.93	760.2	78	25.6	90	n.			4–6		4	n.				4	n.	squally.
H. M. S. Boadicea, S. 25° 43′, E. 6° 00′	30.08	764 0				sse.			3–6		4					4	s.	d. clouds.
H. M. S. Champion, Singapore, Malay peninsula	29.86	758.4	80	26.7	91	nw.			3		3	n.				1	ne	squally.
H. M. S. Cleopatra, N. 31° 15′ E. 121° 29′	30.38	771.6	40	4.4	91	calm			0		0							blue sky.
H. M. S. Comus, N. 15° 02′, W. 103° 40′	30.01	762.2	76	24.4	86	e.			1–2		8	n.				2	ne.	d. clouds.
H. M. S. Constance, N. 2° 44′ W. 28° 37′	29.94	760.5	80	26.7		ese.			2		5	ese.				2	ene.	showery.
H. M. S. Curacoa, Yokohama, Japan			43.5	6.4	67	n.			2–3		6	n.						d. clouds.
H. M. S. Crocodile, N. 35° 05′, E. 18° 34′	29.60	751.8	64	17.8	83	s.			3		10					3	sse.	overcast.
H. M. Dock Yard, Bermuda, W. I.	30.35	770.9	59	15.0	73	ese.			1–2		2	ese.						blue sky.
H. M. S. Dryad, N. 14° 25′, E. 92° 30′	29.95	760.7	78	25.6		ne.			2–3		4	n.				3	ne.	d. clouds.
H. M. S. Eclipse, N. 7° 50′, E. 81° 45′	29.90	759.4	78	25.6		ene.			2–3		4					4	ne.	d. clouds.
H. M. S. Fawn, S. 27° 31′, E. 9° 56′	30.04	763.0	68.5	20.3	95	se.			4		4					3	se.	d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.28	769.1	45.5	7.5	89	calm			0		2							blue sky.
H. M. S. Fox Hound, Labuan Island, Borneo	29.89	759.2	78.5	25.8		ese.			1		10	se.						raining.
H. M. S. Gannet, S. 36° 42′, W. 73° 06′	30.03	762.7	63.5	17.5	85	sw.			2		10							d. clouds.
H. M. S. Heroine, S. 8° 48′ W. 30° 56′	29.92	760.0	80	26.7	82	ese.			5–6		4	ese.				6	ese.	squally.
H. M. S. Himalaya, N. 35° 48′, E. 15° 13′	29.62	752.3	57	13.9	87	sse.			5–7		8					5	sse.	showery.
H. M. S. Iron Duke, N. 13° 02′, E. 48° 30′	30.06	763.5	79	26.1	78	ene.			2–4		3	ne.				3	e.	d. clouds.
H. M. S. Kingfisher, Callao Bay, Peru	30.00	762.0	66	18.9		calm			0		7							misty.
H. M. S. Lark, S. 32° 32′, E. 173° 40′	30.07	763.8	69.3	20.7	72	sse.			2		2					2	se.	blue sky.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.28	769 1	39.7	4.3	80	calm			0		5							misty.
H. M. S. Monarch, Port Said, Egypt	29.97	761.2	67	19.4	79	nne.			2		1							blue sky.
H. M. S. Mutine, S. 1° 15′, W. 120° 08′	30.03	762.7	73.5	23.1		s.			1		6					sm'h		d. clouds.
H. M. S. Rocket, Valdivia, Chili	30.05	763.3	64	17.8	89	calm			0		1							blue sky.
H. M. S. Serapis, Bombay, India	29.91	759.7	79.5	26.4	74	nw.			1		5							d. clouds.
H. M. S. Superb N. 36° 50′, E. 28° 19′	30.14	765.5	63	17.2	78	ese.			3		8	ese.				2	se.	d. clouds.
H. M. S. Swiftsure, Pacasmayo, Peru	30.00	762.0	67	19.4	94	s.			3–4		7					2	s.	d. clouds.
H. M. S. Sylvia, Point Angosto, Patagonia	29.97	761.2	48	8.9	97	var.			1–2		10							raining.
H. M. S. Tourmaline, Bombay, India	29.92	760.0				wsw.			1		1							blue sky.
H. M. S. Woodlark, N. 29° 49′, E. 48° 19′	30.18	766.6	59.5	15.3	81	nw.			5		0					3	nw.	blue sky.
Portuguese Naval.																		
Tamega, Macao, China	30.20	767.0	63.5	17.5	85	calm			0		0							
Swedish Naval.																		
Vanadis, N. 39° 54′, E. 19° 46′	29.65	753.2	65.7	18.7	51	se.			5		10							overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla*	30.10	764.5	46	7.8	85	nw.	9	4.0			10		nw.	0.82	20.8			cloudy.
Navy Yard, Portsmouth, N. H*	29.73	755.1	38	3.3	90	sw.	8	3.6			10		sw.	0.3	8.			cloudy.
Naval Hospital, Yokohama, Japan*	30.01	762.2	41	5.0	39	n.			4		10		w.	0.05	1.3			light hail.
Adams, Sitka, Alaska†	30.00	762.0	36	2.2	90	ne.			1		10							cloudy.
Alaska, Mare Island, Cal	30.07	763.8	35	1.7	90	e.			1		2			0	0			fair.
Alliance, N. 20° 05′ W. 79° 14′	30.05	763.3	76	24.4	95	n.			3		2			0	0	sm'h		clear.
Ashuelot, Shanghai, China	30.39	771 9	41	5.0	91	calm			0		0							clear.
Brooklyn, Keel Point, Patagonia*	29.97	761.2	53	11.7	86	ssw.	13	5.8			2		s.	0	0	sm'h		fair.
Colorado, New York, N. Y.	29.87	758 7	38	3.3	100	sw.	3	1.3			1?		calm	0.78	19.8			raining.
Enterprise, N. 37° 40′, W. 53° 35′*†	30.48	774.2	54	12.2	100	ssw.			3		8		nw.			mod	se.	cloudy.
Essex, Callao, Peru	29.98	761 5	67	19.4	90	ese.			1		8		ese.					fair.
Franklin, Norfolk, Va.	29.90	759.4	53	11.7	93	ssw.	12	5.4			10		ssw.	0.11	2.8			cloudy.
Galena, Montevideo, Uruguay*	29.76	755 9	68	20.0	84	nw.			4		8		nw.			sm'h		cloudy.
Hartford, S. 18° 14′, W. 76° 35′ *	29.97	761.2	71	21.7	75	ese.			3		10					sm'h	s.	cloudy.
Independence, Mare Island, Cal	30.16	766.1	32	0.0	100	e.			6					0	0			foggy.
Iroquois, Callao, Peru	29.99	761.7	67	19.4	94	calm			0		10							overcast
Jamestown, Boston, Mass	29.76	755.9	40	4.4	100	ssw.			2		10							raining.
Juniata, Gibraltar, Mediterranean*	30.00	762.0	60	15.6	87	wnw.			4		5		var.	0	0			fair.
Kearsarge, Port of Spain, Trinidad, W. I.	29.98	761.5	77	25.0	95	calm			0		2							fair.
Lackawanna, N. 13° 00′, W. 135° 25′*	29.93	760.2	75	23.9	81	ene.			5		5		ne.			sm'h	ne.	fair.
Lancaster, Genoa, Italy	29.55	750.6	51	10.6	86	n.			6		10		n.					squally.
Michigan, Erie, Pennsylvania	30.10	764.5	16	— 8.9	67	w.			4		10							snowing.
Minnesota, New York, N. Y.	29.87	758.7	37	2 8	100	ssw.	4	1.8			10		calm					raining.
Monocacy, Nagasaki, Japan	30.28	769.1	47	8.3	92	calm			0		0							clear.
New Hampshire, Newport, R. I.	29.80	756.9	41	5.0	100	sw.			3		10		sw.			mod.	sw.	cloudy.
Nipsic, Lisbon, Portugal.	30.00	762.0	62	16.7	66	wsw.			3		8		w.					fair.
Onward, Callao, Peru*†	30.08	764.0	66	18.9	94	se.			2		10		n.					cloudy.
Palos, Tientsin, China*	30.39	771.9	18	— 7.8	100	s.			1		0							clear.
Pensacola, N. 7° 45′ W. 79° 40′*	29.82	757.4	78	25.6	82	nnw.			5		2			0	0	sm'h		clear
Portsmouth, Boston, Mass.	29.78	756.4	42	5.6	83	sw.			2		10							rainy.
Powhatan, Boston, Mass	29.78	756.4	40	4.4	100	sw.			2		10							raining.
Quinnebaug, Genoa, Italy	29.56	750.8	43	6.1	83	nne.			6		10		calm					cloudy.
Ranger, N. 23° 09′, W 119° 45′ *	30.02	762.5	63	17.2	83	nnw.			3		8		calm	0	0	sm'h		cloudy.
Richmond, Hong-Kong, China*	30.09	764.3	63	17.2	83	ese.			3		0			0	0			clear.
Saratoga, New York, N. Y.	29.95	760.7	38	3.3	100	s.			1–2		10		s.	light	light			raining.
St. Louis, League Island, Pa.	29.91	759.7	35	1.7	90	wsw.			2		10			0.67	17.0			rainy.
Tennessee, Basse-Terre, St. Kitts, W. I*	30.06	763.5	78	25.6	95	e.	4	1.8			10			0.2	5.			rainy.
Vandalia, Samana Bay, San Domingo, W. I*	30.08	764.0	74	23.3	90	ne.			1		5		nw.					fair.
Wabash, Boston, Mass.	29.77	756.1	40	4.4	91	sw.	7	3.1			10		sw.	0.46	11.7			cloudy.
Wachusetts, Mare Island, Cal	30.17	766.3	34	1.1	100	e.			2		1		calm					clear.
Wyandotte, Washington, D. C	30.23	767.8	33	0.6	100	nw.			5		0			0.4	10.			clear.
Yantic, Aspinwall, U. S. C	29.99	761.7	78	25.6	86	n.			3		2					long.	n.	clear.
Merchant Marine.																		
S. S. Grecian, N. 51° 00′, W. 6° 00′ *	29.28	743.7	50	10.0	100	s.			5		9		s.	5 h'r	5 h'r	light	s.	cloudy.
S. S. Nova Scotian, N. 45° 24′ W. 59° 09′	29.77	756.1	37	2.8		ssw.			5		10		ssw.			mod.	ssw.	raining.
S. S. Scandinavian, N. 54° 23′, W. 20° 58′	28.03	711.9	48	8.9		sc.			8		10		s.	10 h'r	10 h'r	high	se.	raining.
S. S. British Crown, N. 49° 19′, W. 25° 14′†	28.99	736 3	41	5.0		wsw.			8		7		wsw.	hail	hail	h'vy	wsw	hailing
S. S. Indiana, Queenstown, Ireland			49	9.4	85	s.			6		10		se.					raining.
S. S. Lord Clive, N. 42° 55′ W. 59° 15′						sw.			6		8		w.	0	0	mod.	wsw.	cloudy.
S. S. Lord Gough, N. 51° 12′, W. 10° 40′	29.05	737 9	48	8.9		wsw.			4		8		w.	8 h'r	8 h'r	r'gh	sw.	clearing.
S. S. Ohio, Philadelphia, Pa.			37	2.8	90	sw.			2		10							raining.
S. S. Pennsylvania, N. 47° 48′ W. 44° 00′†	29.85	758.2	31	— 0.6	89	wnw.			6		1		nw.	0	0	r'gh	w.	squally.
S. S. Jason, N. 46° 22′, W. 30° 35′			55.4	13.0		wnw.			5		7 ks					6	w.	cloudy.
S. S. Stella, N. 48° 48′ W. 41° 55′	29.62	752.3	30	— 1.1		w.			7		9		w.	11 h'r	11 h'r	8	wnw.	squally.
S. S. Bolivia, N. 55° 29′, W. 6° 34′	29.23	742.4	46	7.8	92	sse.			6		10		sse.	12 h'r	12 h'r	r'gh	sse.	overcast.
S. S. Antillas, N. 18° 20′, W. 76° 20′†	30.15	765.8				e.			2		2?		e.	0	0	mod	se.	cloudy.†
S. S. Ambrose, Amazon river, Brazil†	30.07	763.8	80	26.7										0	0			fair.
S. S. Auckland, S. 50° 35′, W. 51° 30′	29.69	754.1	45	7.2	76	sw.			3		6							blue sky.
S. S. Caldew, S. 25° 25′, E. 62° 10′	29.98	761 5	80	26.7	82	ene.			4		7							d. clouds.
S. S. City of Agra, S. 44° 40′, W. 43° 01′	29.76	755.9	56.5	13.6	60	sw.			4		2							d. clouds.
S. S. Gordon Castle, N. 37° 02′, E. 0° 40′	29.69	754.1	59.3	15.2	88	wnw.			6		3					high		d. clouds.
S. S. Scotia, N. 32° 33′ E. 28° 56′	29.96	761.0	67.2	19.6	74	ese.			5		5							d. clouds.
S. S. Mexico, La Paz, Lower California†	30.03	762.7	59	15.0	73	ssw.			1		0							
S. S. Gallia, N. 43° 35′, W. 46° 54′	30.24	768.1	41	5.0	?	w.			6		10			0	0	mod.	nw.	gloomy.
S. S. Marathon, N. 42° 47′, W. 56° 54′	30.18	766.6	47	8.3		wsw.			6		5		wsw.	0	0	high	wsw.	flue.
S. S. Parthia, N. 46° 29′, W. 40° 50′	30.04	763.0	35	1.7	90	w.			7		10			7 h'r	7 h'r	r'gh	wnw.	hailing.
S. S. Rhinwidda, N. 40° 38′, W. 73° 40′ *†	29.98	761 5	33	0.6		wnw.			5		1		nw.	0	0	mod.	s.	
S. S. Canada, N. 43° 22′, W. 56° 21′	30.15	765.8	48	8.9		sw.			5	ck	0	sw.		0	0	sm'h	w.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																		
S. S. France, N. 49° 48′, W. 10° 40′			50	10.0		se.			5		k		s.	0	0	sm'h	nw.	clear.
S. S. Labradore, N. 49° 18′, W. 23° 04′*†	29.25	742.9	39.2	4.0		w.			8		9		w.	rain	rain	h'vy	w.	
S. S. Perire, N. 43° 08′, W. 51° 38′	30.13	765.3	44.6	7		sw.			4		10		sw.			h'vy	sw.	hailing.
S. S. Ville de Marseilles, N. 35° 35′, W. 25° 45′*†	30.00	762.0	58	14.4	100	nw.			6		7		nnw.	0	0	h'vy	nw.	cloudy.
S. S. Abyssinia, N. 40° 32′, W. 72° 19′	29.85	758.2	41	5.0		w.			5		10		w.	4 h'r	4 h'r	sm'h		showery.
S. S. Arizona, N. 49° 07′, W. 39° 52′	29.64	752.8	35	1.7		w.			7–9		8		nw.	snow	snow	high	wnw.	hailing,
S. S. Wisconsin, N. 47° 07′, W. 44° 00′			31	—0.6		w.			6		10		wnw.	snow	snow	r'gh	nw.	snowing.
S. S. Bohemia, Hamburg, Germany*†	29.85	758.2				ene.			4		10			0	0			fair.
S. S. Frisia, N. 49° 37′, W. 8° 02′	29.28	743.7	49	9.4		s.			5–6		10		sw.	2 h'r	2 h'r	mod.	wsw.	raining.
S. S. Rugia, N. 43° 57′, W. 52° 42′			40	4.4		sw.			4		5		w.	0	0	3	w.	hazy.
S. S. Silesia, N. 49° 51′, W. 10° 13′†	30.26	768.6	49.2	9.5		sw.			6		4		sw.	½h'r	½h'r	0	sw.	
S. S. Vandalia, Hamburg, Germany	29.82	757.4	36.5	2.5		e.			2		2		ese.					fair.
S. S. Archimedes, S. 21° 38′, W. 40° 20′	29.82	757.4				nne.			5		5		s.	0	0	light	nne.	hazy.
S. S. Hevelius, N. 36° —′, W. 14° 36′†	30.16	766.1	55	12.8		w.			6		7		w.	0	0	long	nw.	cloudy.
S. S. Ptolemy, N. 18° 04′, W. 25° 00′	30.11	764.8	69.8	21.0	81	ene.			6		9 ks		se. e.	0.70	17.8		nw.	overcast.
S. S. Sirius, N. 19° 20′, W. 57° 20′*	30.05	763.3				ene.			4		1		ene.	0	0	mod.	var.	clear.
S. S. Bulgarian, N. 43° 09′, W. 60° 03′*	30.13	765.3				sw.			2		3		sw.	0	0	mod	sw.	
S. S. Colorado, N. 38° 10′, W. 74° 26′†	29.90	759.4	46	7.8		ssw.			6		10		nne.	sleet	sleet	high	ssw.	fair.
S. S. Rio Grande, N. 29° 30′, W. 76° 14′†	30.17	766.3	72	22.2		sse.			3		8		sse.	5 h'r	5 h'r	long	sse.	cloudy.
S. S. San Marcos, New York, N. Y.			41	5.0		n.			5		7		n.					raining.
S. S. Archimede, Palermo, Sicily†	29.34	745.2	66	18.9	74	se.			5		5?		se.	2 h'r	2 h'r			cloudy.
S. S. Hermod, N. 42° 26′, W. 57° 06′†	30.04	763.0	54	12.2		sw.			6		8		sw.	4 h'r	4 h'r	r'gh	sw.	squally.
S. S. Alleghany, Boston, Mass†	29.78	756.4	30	—1.1		sw.			7		10		w.	h'v'y	h'v'y			stormy.
S. S. Glenfyne, N. 39° 13′, W. 72° 25′						ssw.			3		10		wsw.	h'v'y	h'v'y	mod	ssw.	light rain.
S. S. Brooklyn, N 44° 09′ W. 53° 31′			45	7.2		sw.			5				sw.	0	0	h'vy	sw.	cloudy.
S. S. Dominion, N. 46° 18′, W. 54° 17′*†	29.84	757.9	33	0.6		w.			6		10		w.	0	0	high	wnw.	gloomy.
S. S. Chalmette, N. 28° 03′, W. 79° 45′†	30.14	765.5	73	22.8		ssw.			4		4		sw.	0	0	mod.	ne.	fair.
S. S. Lone Star, N. 27° 14′, W. 80° 03′†	30.13	765.3	70	21.1		s.			2		1		sw.	0	0	small	se.	clear.
S. S. New York, N. 38° 25′, W. 74° 20′†	29.89	759.2	47	8.3		w.			5		7		w.	0	0	sm'h	s.	hazy
S. S. Denmark, N. 41° 12′, W. 55° 50′†	30.29	769.4	55	12.8		sw.			5		8		sw.	sh'rs	sh'rs	mod.	sw.	cloudy.
S. S. Erin, Liverpool, Eng			48	8.9		sse.			6		7		se.	8 h'r	8 h'r			
S. S. Greece, N. 43° 41′, W. 55° 41′	29.99	761.7	43	6.1		sw.			6		8		sw.	0	0	mod.	sw.	dull.
S. S. Helvetia, N. 49° 00′ W. 29° 30′	29.23	742.4	39	3.9		nw.			9		10		nw.	6 h'r	6 h'r	h'vy	nw.	snowing.
S. S. Holland, N. 49° 13′, W. 18° 04′	29.02	737.1	48	8.9		wsw.			7		5		wsw.	4 h'r	4 h'r	high	w.	hailing.
S. S. The Queen, N. 40° 23′, W. 68° 14′	29.92	760.0	45	7.2		sw.			6		5?		sw.	3 h'r	3 h'r	mod	sw.	clear.†
S. S. Santiago, Cienfuegos, Cuba, W. I			66	18.9	89	n.			3		4		ne.	0	0	sm'h		fine.
S. S. City of Alexandria, N. 25° 34′, W. 79° 51′†	30.17	766.3	75	23.9	86	se.			2		2		se.	0	0	mod.	ne.	clear.
S. S. City of Merida, N. 19° 50′, W. 90° 40′†	29.91	759.7	77.0	25.0		ne.			2		0			0	0	light	ne.	clear.
S. S. City of Washington, N. 18° 40′, W. 92° 45′†	30.13	765.3	78	25.6		calm			0		5		e.	0	0	mod.	e.	fine.
S. S. America, N. 49° 48′, W. 12° 54′*	29.14	740.1	51.0	10.6	86	wsw.			6		6		wsw.	2 h'r	2 h'r	r'gh	wsw.	squally.
S. S. Donau, N. 40° 20′, W. 70° 09′	29.95	760.7				ssw.			9		8		ssw.	6 h'r	6 h'r	cross	ssw.	light haze.
S. S. Hohenstaufen, S. 25° 57′, W. 43° 10′	29.62	752.3	75.2	24.0		nw.			6		9		nw.	18 h'r	18 h'r	r'gh	nw.	squally.
S. S. Main, N. 48° 52′, W. 25° 31′	29.12	739.6	39	3.9		nw.			8		8		nw.	5 h'r	5 h'r	high	wnw.	squally.
S. S. Oder, N. 49° 47′, W. 22° 16′	29.02	737.1	44.6	7.0		nw.			7–9		7		wnw.	1½h'r	1½h'r	high	wnw.	rain & hail.
S. S. Sailer, Brouwershaven, Netherlands	29.75	755.6	28	—2.2		e.			4		10		e.	0	0			cloudy.
S. S. Strassburg, N. 8° 47′, W. 28° 06′	30.00	762.0	79.0	26.1	91	ne.			4		9		ne.	0	0	mod	ne.	cloudy.
S. S. Belgic, N. 34° 45′, E. 105° 58′*†	29.91	759.7	57	13.9	58	wnw.			6		8		wnw.	0	0	r'gh	s.	cloudy.
S. S. Coptic, N. 38° 04′, E. 147° 02′	30.03	762.7	34.0	1.1	95	nw.			6		6?		nw.	8 h'r	8 h'r	mod.	nw.	overcast.†
S. S. Gaelic, N. 35° 25′, E. 139° 40′	30.03	762.7	42	5.6	91	n.			2		2?		n.	0	0			cloudy.†
S. S. Oceanic, N. 40° 19′, W. 128° 20′ *	30.33	770.4	49	9.4	85	nw.			5		5		nw.			sm'h	wnw.	fine.
S. S. City of Augusta, N. 36° 54′, W. 74° 44′						ssw.			4		6		sw.	0	0			foggy.
S. S. Willamette, Seattle, Wash. Ter †	30.13	765.3	38	3.3	90	ssw.			1		10		s.	0.04	1.0			rain & fog.
S. S. Oregon, Astoria, Oregon †	30.04	763.0	42	5.6	91	sw.			2		10		sw.					heavy rain.
S. S. Ancon, San Francisco, Cal†	30.03	762.7	39	3.9	73	n.			2		10		n.					cloudy.
S. S. City of Chester, Point Reyes, Cal*†	30.12	765.0	30	2.2	80	nw.			0		0					long	sw.	clear.
S. S. Dakota, Victoria, B. C*†	30.04	763.0	37	2.8	100	ne.			2		8		sse.	4 h'r	4 h'r	sm'h		cloudy.
S. S. G. W. Elder, San Francisco, Cal †	30.14	765.5	38	3.3	100	nw.			1		0			0	0			clear.
S. S. Orizaba, N. 33° 43′, W. 118° 15′ *†	29.94	760.5	58	14.4	70	var.			5				sse.	2 h'r	2 h'r	light	se.	cloudy.
S. S. Queen of the Pacific, Portland, Oregon†	30.11	764.8				se.			2		10							raining.
S. S. State of California, N. 40° 20′, W. 124° 30′†	30.22	767.6	47	8.3	92	nw.			4		0			0	0	short	nw.	clear.
S. S. Victoria, San Francisco, Cal *†	30.22	767.6	37	2.8		nnw			4		2		nnw.					hazy.
S. S. City of New York, N. 15° 06′, W. 160° 05′†	29.96	761.0	75	23.9	77	ne.			2		5		ne.	2 h'r	2 h'r	h'vy	nw.	fair.
S. S. City of Pekin, N. 31° 52′ W. 138° 19′†	30.20	767.1	62	16.7	61	e.			5		10		e.			mod.	ne.	cloudy.
S. S. City of Sydney, Sydney, N. S. W†	30.27	768.8	80	26.7	74	nw.			3		5		n.	0	0	sm'h		fair.
S. S. City of Tokel, Hong Kong, China†.	30.25	768.3	59	15.0	82	e.			1		10?		ne.	0	0	sm'h		clear†
S. S. Colima, N. 22° 54′ W. 109° 20′†	30.03	762.7	97	19.4	100	n.			2		0			0	0	sm'h	nw.	clear.
S. S. Colon, N. 27° 05′, W. 74° 16′†	30.18	766.0	72	22.2		sse.			2				se.	0	0	small	ese.	clear.
S. S. Grenada, San Jose, Guatemala C.A †	29.99	761.7	70	24.4	86	ne.			1		0			0	0	sm'h		clear.
S. S. San Jose, N. 80 45′, W. 83° 15′*†	29.90	759.4				w.			2		5 k		nne.	½h'r	½h'r	light	wsw.	
S. S. Zealandia, Sydney, N. S. W*.	30.13	765.3	73	22.8	90	se.			1		1		s.					fine.
S. S. Muriel, Trinidad, W. I*	30.04	763.0	81	27.2		e.			3		2			light	light	sm'h		fair.
S. S. Claudius, N. 21° 40′, W. 74° 30′†	30.27	768.8	76.0	24.4	95	ne.			4		5		ne.	0	0	short	ne.	fair.
S. S. Belgenland, N. 50° 19′, W. 10° 36′†	29.57	751.1	50	10.0	86	e.			5		8		wsw.	0	0	sm'h	w.	fine.
S. S. Nederland, N. 40° 55′ W. 68° 38′			46	7.8		s.			6		10		sw.	0	0	r'gh	ssw.	cloudy.
S. S. Pennland, N. 46° 40′, W. 45° 35′	30.08	764.0	33	0.6	89	wsw.			8		10		wsw.	snow	snow	high	w.	squally.
S. S. Rhyland, Jersey City, N. J†	29.87	758.7	40	4.4	82	wsw.			6		10		wsw.					drizzling.
S. S. Waesland, N. 49° 59′, W. 26° 17′			39	3.9		w.			7		10		w.	rain	rain	h'v'y	w.	hailing.
S. S. Maas, N. 49° 02′, W. 16° 40	29.15	749.4	52.7	11.5		w.			6		10		sw.	0	0	6-7	w.	
S. S. Schiedam, N 42° 34′ W. 56° 55′	30.13	765.3	53.1	11.7	93	sw.			6		3		wsw.	2 h'r	2 h'r	h'vy	sw.	fair.
S. S. W. A. Scholten, New York, N. Y.	29.97	761.2	30.8	2.7	98	sw.			3		10		sw.	7 h'r	7 h'r			rainy.
S. S. State of Florida, N. 44° 44′, W. 51° 01′	30.01	762.2	41	5.0		sw.			5		9		w.	snow	snow	mod.	w.	overcast.
S. S. State of Indiana, N. 54° 32′, W. 17° 32′†	28 14	714.7	44	6.7		sw.			9		8		sw.	10 h'r	10 h'r	high	sw.	threatening.
S. S. Iowa, N. 47° 58′, W. 30° 01′			44	6.7		w.			9		8		w.	sleet	sleet	h'vy	wnw.	squally.
S. S. Plantyn, N. 46° 49′, W. 32° 55′	29.51	749.5							9		9		w.	4½h'r	4½h'r	high	wsw.	
S. S. Adriatic, N. 41° 24′, W. 56° 17′†	30.34	770.6	53	11.7		wsw.			7		7		wsw.	1 h'r	1 h'r	sli't	wsw.	showery.
S. S. Britannic, N. 50° 54′, W. 13° 50′†	29.18	741.2	49	9.4	93	sw.			6		3		wsw.	5 h'r	5 h'r	r'gh	sw.	fair.
S. S. Lepanto, N. 43° 28′, W. 45° 40′			41	5.0		wnw.			6		8		w.	0	0	h'vy	w.	cloudy.
S. S. Marengo, N. 50° 00′, W. 10° 00′*	29.10	739.1				sw.			7		10		sw.	0 h'r	0 h'r	h'vy	sw.	cloudy.
S. S. Otranto, N. 51° 00′ W. 17° 12′†	29.02	737.1	47	8.3		w			8		8		w.			cross	w.	cloudy.
S. S. Romano, N. 42° 43′, W. 59° 28′ *†	30.03	762.7	50	10.0		sw.			7		7		w.	snow	snow	r'gh	sw.	fair.
S. S. Salerno, Staten Island, N. Y.	29.91	759.7	42	5.6		wnw.			3		10		w.	2 h'r	2 h'r	sm'h	sw.	raining.
S. S. Arles, N. 39° 55′, W. 73° 50′ *†	29.82	757.4				wnw.			5		10		wnw.	12 h'r	12 h'r	mod.	s.	raining.
S. S. Catherine Whiting, Fire Island, N. Y†	29.93	760.2				w.			6				w.	0	0	long	ssw.	
S. S. Norman, N. 39° 59′, W. 75° 08′ †	29.91	759.7				ssw.			3				nw.	10 h'r	10 h'r			cloudy.
MISCELLANEOUS																		
Bg. Abbie Clifford, Havana, Cuba, W. I †	30.13	765.3	64	17.8										0	0			fine.
Schr. Abbie H. Gheen, Spring Wood Mills, S. C †	30.00	763.5	60	15.6		sw.			3					0	0			cloudy.
Bk. Adelaide, S. 12° 45′, W. 35° 10′ *†	29.98	761.5	81	27.2		nne.			2		8		ne.	3 h'r	3 h'r	long	e.	light rain.
Bk. Alpha, Demerara, British Guiana *†	29.98	761.5	80	26.7		e.			2		8			4 h'r	4 h'r			cloudy.
Schr. Anna A. Holton. N. 22° 10′, W. 97° 13′†	30.13	765.3	71	21.7		nnw.			2		2		nnw.	0	0	r'gh	nw.	clear.
S. S. Anna Thormann, S. 22° 59′, E. 0° 15′	30.15	765.8	73.0	22.8	74	ese.			5		8 k		se.	imap.	imap.	r'gh	se.	cloudy.
Bk. Antonio Lopez, N. 37° 30′, W. 0° 51′	29.71	754.6	59	15.0	59	nw.			6		0			0	0			clear.
Bk. Aquidneck, N. 35° 37′, W. 74° 59′			60	15.6		var.												cloudy.
Bgt. Arthur, S. 15° 07′, W. 30° 09′ *†	30.10	764.5				e.			4		2		e.	0	0	mod.	var.	
													ssw.	2 h'r	2 h'r	h'vy	ssw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Schr. Annie R Lewis, N. 32° 32′, W. 75° 27′†	30.14	765.5	71	21.7	.....	s.	.....	.....	6	.....	5	.....	s.	0	0	h'vy	s.	fair.
Bk. B. F. Watson, Hong Kong, China†	30.15	765.8	68	20.0	.....	ene.	.....	.....	4	.....	3?	.....	ne.	0	0	.....	.....	overcast?
Bg. Belle of the Bay, Galveston, Texas†	30.13	765.3	.....	.....	.....	nne.	.....	.....	4	.....	1	.....	ne.	4 h'r	4 h'r	.....	.....	clear.
S. S. Benledi, N. 30° —′, W. 60° —′ *†	30.33	770.4	66	18.9	79	e.	.....	.....	1-2	.....	7	.....	sw.	sh'rs	sh'rs	con.	nw.	showery.
Bkt. Bonny Doon, N. 34° 25′, W. 11° 41′ *†	29.96	761.0	.....	.....	.....	nw.	.....	.....	1	.....	8	.....	nw.	.....	.....	high	nw.	cloudy.
Bk. Bremen, N. 37° 34′, W. 16° 46′*	29.86	758.4	.....	.....	.....	wsw.	.....	.....	6	.....	9	.....	wsw.	0	0	long	var.	cloudy.
S. S. Burswell, N. 49° 56′, W. 12° 10′*†	29.15	740.4	52	11.1	.....	wsw.	.....	.....	6	.....	10	.....	wsw	11 h'r	11 h'r	str'g	con.	rainy.
Bk. Champion, Philadelphia, Pa	.....	.....	40	4.4	.....	wsw.	.....	.....	3	.....	8	.....	sw.	15 h'r	15 h'r	.....	.....	drizzling.
Bk. Commerce, N. 35° 53° W. 27° 33′†	29.91	759.7	62	16.7	.....	wnw.	.....	.....	6	.....	10	.....	wnw	1 h'r	1 h'r	hv'y	w.	squally.
S. S. D. J. Foley, N. 23° 18′, W. 71° 53′*†	30.15	765.8	76	24.4	86	e	.....	.....	5	.....	2	.....	ese.	ɔ	o	mod.	e.	fair.
S. E. B. Sutton, N. 39° 43′, W. 66° —′ †	30.19	766.8	.....	.....	.....	ssw.	.....	.....	6	.....	4	.....	wsw.	o	o	r'gh	sw.	fair.
Bk. E. D. Bigelow, N. 43° 42′, W. 22° 00′*†	29.55	759.6	.....	.....	.....	w.	.....	.....	8	.....	2	.....	w.	o	o	cross	wnw	squally.
Schr. Edith R. Seward, Wilmington, N. C†	30.05	763 3	43	6.1	.....	sw.	.....	.....	1	.....	6	.....	calm	o	o	.....	.....	
Bk. Edmund Phinney, S. 9° 50′, W. 34° 29′ †	29.96	761.0	83	28.3	.....	ese.	.....	.....	5	.....	8	.....	.....	o	o	r'gh	ese.	cloudy.
S. E. J. Spicer, Liverpool, Eng	29.35	745.5	53	11.7	93	s.	.....	.....	6	.....	10	.....	.....	rain	rain	.....	.....	rain & fog.
Bk. E. L. Pettingill, S 40° 20′, W. 114° 32′*†	30.30	769.6	62	16.7	.....	e.	.....	.....	1	.....	10	.....	n.	12 h'r	12 h'r	long	sw.	raining.
Bk. Essex, Majambo, Madagascar*†	29.75	755.6	80	26.7	.....	wsw.	.....	.....	4	.....	.....	.....	.....	rain	rain	h'vy	nw.	threatening.
Schr. F. E. McDonald, Jacksonville, Fla †	29.99	761.7	60	15.6	.....	sw.	.....	.....	1	.....	5	.....	.....	o	o	.....	.....	fine.
U. S. F. C. S. S. Fish Hawk, Washington, D. C †...	30.00	762.0	40	4.4	100	calm	.....	.....	0	.....	10	.....	calm	.....	.....	.....	.....	raining.
S. S. Foscolia, Dunkirk, France..	.....	.....	.....	.....	.....	ese.	.....	.....	3	.....	0	.....	.....	o	o	.....	.....	clear.
Bk. Freya, Matanzas, Cuba, W. I	.....	.....	.....	.....	.....	ne.	.....	.....	1	.....	0	.....	.....	o	o	.....	.....	clear.
Bg. George, Coamo, Porto Rico, W. I*†	30.18	766.6	.....	.....	.....	ne.	.....	.....	1	.....	0	.....	.....	o	o	sm'h	.....	fair.
S. George Stetson, S. 2° —′, W. 31° —′ *†	30.04	763.0	80	26.7	87	sse.	.....	....	4	.....	5?	.....	sse.	o	o	sm'h	se.	clear?
Bg. Gipsey Queen, N. 33° 11′, W. 67° 47′ *†	30.10	764.5	68	20.0	.....	s.	.....	.....	6	.....	6	.....	s.	o	o	short	sse.	d. clouds.
Bk. Gronsvaer, Auckland, N. Z	30.03	762.8	70.0	21.1	.....	w.	.....	.....	4	.....	3	.....	w.	o	o	.....	.....	fair.
Bk Hattie G. McFarland, Demerara, Brit. Guiana*†	30.10	764.5	78	25.6	.....	e.	.....	.....	5	.....	10	.....	e.	5 h'r	5 h'r	.....	.....	showery.
Schr. Hattie Weston, N. 20° 50′, W. 60° 15′*†	30.22	767.6	78	25.6	.....	ene.	.....	.....	4	.....	5	.....	e.	1 h'r	1 h'r	mod.	ese.	squally.
S. Hedwig, N. 47° 51′, W. 18° 54′	.....	.....	46.9	8.3	.....	wnw.	.....	.....	9	.....	8	.....	wnw.	rain	rain	7	wnw	squally.
Bk. Heinrich & Tonio, N. 42° 03′, W. 16° 10′	.....	.....	57	13.9	.....	w.	.....	.....	5	.....	10	.....	.....	11 h'r	11 h'r	light	w.	rainy.
Schr. Isabel Alberto, Jersey City, N. J.†	29.98	761.5	.....	.....	.....	sw.	.....	.....	2	.....	8	.....	w.	rain	rain	.....	.....	light rain.
Schr. James Slater, N. 34° 40′, W. 64° 15*†	30.30	769.6	62	16.7	.....	s.	.....	.....	3	.....	10	.....	s.	o	o	mod.	nnw.	threatening.
Bk. Johanne, N. 31° 20′, W. 20° 00′ *†	30.15	765.8	67	19.4	.....	w.	.....	.....	3	.....	10	.....	ne.	4 h'r	4 h'r	mod.	var.	fair.
Schr. John L. Thomas, N. 20° 35′, W. 62° 36′*†	30.18	766.6	.....	.....	.....	ene.	.....	.....	4	.....	2	.....	e.	o	o	mod.	var.	clear.
Bkt. Josephine, S. 20° 12′, W. 29° 46′†	30.04	763.0	81	27.2	74	ene.	.....	.....	5	.....	8	.....	ene.	1 h'r	1 h'r	r'gh	e.	fair
S. S. J. W. Wilson, Atchafalaya River, La*†	30.09	764.3	40	4.4	.....	n.	.....	.....	6	.....	0	.....	.....	11 h'r	11 h'r	.....	.....	clear.
Light House Tender Laurel, Manatle River, Fla†	30.08	764.0	64	17.8	.....	s.	.....	.....	3	.....	5	.....	ssw.	o	o	.....	.....	fair.
Bk. Louise Adelaide, N. 19° 25′, W. 95° 20′*	.....	.....	.....	.....	.....	nnw.	.....	.....	4	.....	4	.....	nnw.	o	o	short	n.	fine.
Bg. L. & W. Armstrong, N. 38° 41′, W. 69° 45′*†	30.08	764.0	.....	.....	.....	ssw.	.....	.....	8	.....	7	.....	ssw.	2 h'r	2 h'r	long	ssw.	threatening.
S. S. Malabar, Gibralter, Mediteranean..	.....	.....	.....	.....	.....	wnw.	.....	.....	7	.....	0	.....	.....	o	o	sm'h	.....	clear.
Bk. Mary A. Troop, N. 39° 40′, W. 67° 28′ *†	30.05	763.3	.....	.....	.....	ssw.	.....	.....	7	.....	8	.....	ssw.	2 h'r	2 h'r	r'gh	ssw.	cloudy.
Schr. Minnie A. Bonsall, Mayport, Fla †	30.07	763.8	62	16.7	.....	ssw.	.....	.....	4	.....	2	.....	ssw	o	o	.....	.....	fair.
S. M. P. Grace, S. 31° 40′, W. 22° 51′ *...	30.09	764.3	74	23.3	.....	n.	.....	.....	4	.....	1	.....	n.	o	o	sm'h	sw.	clear.
Bg. Myrtle, N. 23° 17′, W. 57° 05′	.....	.....	.....	.....	.....	ene.	.....	.....	6	.....	1	.....	e.	o	o	r'gh	nw.	fair.
Bkt. Norena, Off Stirrup Cays, W. I*†	30.25	768.3	.....	.....	.....	e.	.....	.....	5	.....	9	.....	e.	o	o	.....	.....	fine.
Bg. O. C. Clary, N. 18° 59′, W. 73° 10′ *†.	29.96	761.0	79	26.1	91	sse.	.....	.....	1	.....	1	.....	e	.....	.....	.....	.....	
Bk. Ottawa, Alicante Harbor, Spain*	29.72	754.9	59	15.0	.....	nw.	.....	.....	3	....	0	.....	.....	o	o	.....	.....	clear.
S. Paramita, San Francisco, Cal	30.14	765.5	38	3.3	.....	nne.	.....	.....	3	.....	.....	.....	.....	o	o	.....	.....	foggy.
Schr. Pearl Nelson, N. 23° 49′, W. 64° 44′*†	30.10	764.5	.....	.....	.....	ene.	.....	.....	6	.....	1	.....	ne.	o	o	long	ne.	squally.
S. S. Peconic, N. 36° 13′, W. 71° 29′*†	29.94	760.5	65	18.3	.....	s.	.....	.....	6	.....	10	.....	s.	1 h'r	1 h'r	long	s.	misty.
S. S. Raleigh, Santiago, Cuba, W. I*†	30.08	764.0	75	23.9	.....	calm	.....	.....	0	.....	0	.....	.....	o	o	.....	.....	
Bk. Reindeer, N. 20° 45′, W. 59° 46′*	30.04	763.0	.....	.....	.....	ene.	.....	.....	6	.....	5	.....	ene.	light	light	long	ese.	squally.
S. Rudolph, N. 44° 44′, W. 13° 39	.....	.....	54.6	12.6	.....	wnw.	.....	.....	3	.....	10	.....	sw.	5 h'r	5 h'r	cross	var.	rainy.
Schr. S. B. Hubbard, Jacksonville, Fla *†	30.15	765.8	44	6.7	.....	calm	.....	.....	0	.....	10	.....	.....	o	o	.....	.....	threatening.
Bk. Scud, N 22° 28′, W. 55° 20′*†	30.19	766.8	78	25.6	.....	e.	.....	.....	7	.....	3	.....	e.	.....	.....	short	.....	rainy.
S. Sovereinn of the Seas, S. 0° 19′, W. 113° 55′ *†	30.03	762 7	72	22.2	95	se.	.....	.....	3	.....	2	.....	se.	o	o	se.	.....	clear.
Bk. Sunbeam, N. 38° 13′, W. 10° 18′*†	30.00	762.0	60	15.6	88	sw.	.....	.....	2	.....	8	.....	wsw.	2 h'r	2 h'r	h'vy	wnw.	cloudy.
S. S. Sunbeam, N. 37° 58′, W. 64° 12′	30.30	769.6	59	15.0	82	s.	.....	.....	6	.....	8	.....	s.	1 h'r	1 h'r	3	ssw.	drizzling.
S. Titan, N. 27° 58′, W. 39° 46′ *†	30.34	770.6	74	23.3	86	se	.....	.....	1	.....	5	.....	e.	¼h'r	¼h'r	sm'h	nw.	fair.
Bk. Wandering Jew, Montevideo, Uruguay †	29.82	757.4	69	20.6	.....	nw.	.....	.....	3	.....	3	.....	nw.	o	o	.....	.....	fair.
Bk. Winifred, N. 34° 23′, W. 65° 38′	.....	.....	.....	.....	.....	var.	.....	.....	.....	.....	.....	.....	s.	o	o	.....	sse.	fair.
Schr. Wm. Wiler, N. 30° 05′, W. 71° 40′†	30.21	767.3	.....	.....	.....	se.	.....	.....	1	.....	8	.....	s.	2 h'r	2 h'r	mod.	ese.	fine.
Bk. Xenia, N. 29° 04′ W. 39° 50′*†	30.30	769.6	67	19.4	.....	ene.	.....	.....	5	.....	10	.....	ne.	6 h'r	6 h'r	mod.	n.	cloudy.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

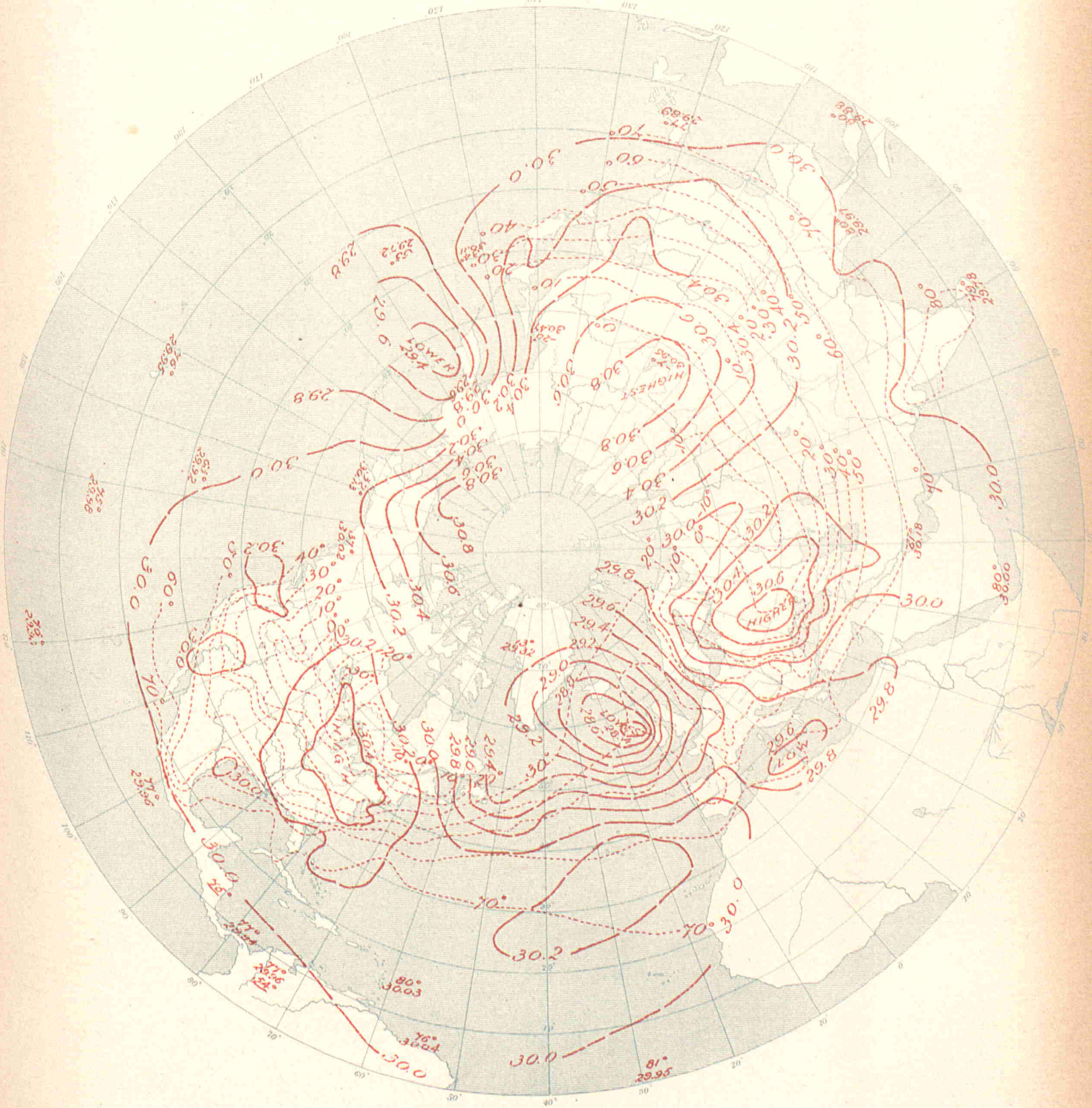
TAKEN SIMULTANEOUSLY ON JANUARY 15. 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Algerian.																			
Nemours	.....	.....	29.92	759.5	65.1	18.4	79	ne.	.....	.....	1	.....	2	.....	.....	0	0	fair	Malaterre.
Algiers	.....	.....	29.64	752.8	59.7	15.4	59	sw.	.....	.....	4	.....	2	.....	.....	inap.	inap.	fair	Thève.
La Calle	.....	.....	29.51	749.5	59.4	15.2	74	nw	.....	.....	4	.....	6	.....	.....	0.819	20.8	cloudy	Fonfrède.
Tunis	.....	.....	29.51	749.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	29.85	758.1	59.4	15.2	60	n.	.....	.....	2	.....	4	.....	.....	0	0	cloudy	Pérès.
Tebessa	.....	.....	29.60	751.7	47.8	8.8	84	w.	.....	.....	3	.....	4	.....	.....	0.098	2.5	cloudy	Dognon.
Geriville	.....	.....	.....	.....	52.5	11.4	55	wnw.	.....	.....	3	.....	1	.....	.....	0.236	6.0	very fair	Louchamp.
Laghouat	.....	.....	29.81	757.1	54.3	12.4	61	w.	.....	.....	5	.....	4	.....	.....	0.020	0.5	cloudy	Abraham.
Biskra	.....	.....	29.69	754.1	59.7	15.4	49	nw.	.....	.....	6	.....	3	.....	.....	0	0	pretty fair	Malau.
Australian.																			
Melbourne, Victoria	29.79	756.6	29.88	758.9	81.3	27.4	49	ne.	5	2.2	.....	.....	1	.....	.....	0	0	.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	.....	.....	29.91	759.5	33.1	0.6	94	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	29.33	744.9	30.04	762.9	22.3	— 5.4	85	ene.	15.4	6.9	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.22	742.2	30.04	762.9	37.4	3.0	80	calm	.....	.....	0	cs	7 s	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.05	737.9	29.90	761.0	34.5	1.4	80	s.	.....	.....	1	.....	10	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.61	726.6	29.90	759 5	41.0	5.0	71	s.	.....	.....	5	.....	4	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.53	724.7	30.00	761.9	33.3	0.7	82	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	The Staff.
Lemberg	28 34	719.7	29.72	754.9	15.3	— 9.3	72	se.	.....	.....	3	.....	9	.....	.....	0.012	0.3	.....	Dr. T. Stanecki.
Neu Schmecks	29.18	741.2	30.26	768.6	26 51	3.6	73	calm	.....	.....	0	.....	9	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	29.00	751.8	29.71	754.6	38.5	3.6	73	e.	.....	.....	1	.....	9	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.48	748 7	29.94	760.5	43.2	6.2	53	se.	.....	.....	2	.....	.....	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.66	753.3	29.95	760.7	34.9	1.6	85	s.	.....	.....	1	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.65	753.1	29.75	755.6	50.0	10.0	57	e.	.....	.....	2	.....	8	.....	.....	0	0	.....	Royal Academy.
Vienna	29.15	740.3	29.89	759.2	34.5	1.4	68	sse.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.09	738.9	29.19	741.4	40.5	4.7	90	s.	7	3.1	.....	.....	7	.....	.....	0	0	misty	W. Boswell
Armagh, Observatory	28.86	733 0	29.10	739.1	41.6	5.3	71	s.	22	9.8	.....	.....	3	.....	.....	.....	.....	squally	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.27	743.4	43.3	6.3	83	ese.	17	7.6	.....	.....	2	.....	.....	.....	.....	blue sky	John Hartnup.
Bolton, Sharples	28.77	730.7	29.30	744.2	41.4	5.2	88	ssw.	6	2.7	.....	.....	9	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	28 89	733.8	29.29	744.0	43.1	6.2	80	sw.	.....	.....	1	.....	5	.....	.....	0.01	0.3	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	30.00	762.0	30.03	762.7	80.0	26.7	74	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H C.
Cardington	.....	.....	.....	.....	45.0	7.2	88	sw.	.....	.....	0.4	.....	8	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.27	743 4	29.40	746.7	45.7	7.6	93	sw.	.....	.....	1	.....	8	.....	.....	blank	blank	d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.14	740.1	29.30	745.7	46.0	7.8	83	wsw.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.51	698.7	29.73	755.1	89.0	31.7	32	e.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	Corpl. F. Milner, A. H. C.
Galway	28.95	735.3	28.99	736.1	41	5.0	73	sse.	.....	.....	8	.....	10	.....	.....	0.40	10.2	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.00	703.5	30.11	764.8	58.5	14.7	90	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	blue sky	Sgt. J. Norris, A. H C.
Glasgow, Observatory	28.94	735.1	29.15	740.4	44.3	6.8	72	sse.	.....	.....	2	.....	3 k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst
Greenwich, Royal Obs'y	29.24	742.7	29.42	747 3	45.3	7.4	89	ssw.	.....	.....	1	.....	9	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.19	741.4	29.48	748.8	49.0	9.4	77	sw.	.....	.....	1	.....	0	.....	.....	blank	blank	blue sky	A. Collenette, F. M. S
Kew, Observatory	29.37	746.0	29.41	747.0	45.7	7.6	89	sw.	10	4.5	.....	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.10	739.1	29.36	745.7	44.0	6.7	88	sw.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29 57	751.1	29.64	752.8	60.8	16.0	73	nw.	.....	.....	2	.....	6	.....	.....	0.09	2.3	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.17	766.3	29.22	742.2	70.0	21.1	100	se.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe
Oscott, St. Mary's College	28.78	731.0	29.31	744.5	43.9	6.6	88	ssw.	.....	.....	3	.....	8	.....	.....	.....	.....	misty	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.16	740.7	29.38	746.2	46.1	7.8	84	ssw.	.....	.....	2	.....	5	.....	.....	.....	.....	misty	The Staff.
Plymouth	29.28	743.7	29.39	745.7	45.0	7.2	92	wsw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	28.96	735.6	29.00	738.1	40.9	4.9	96	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	overcast	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.85	758.2	29.92	760.0	48.2	9.0	77	ne.	.....	.....	3	.....	10	.....	.....	.....	.....	gloomy	W. H. Lyne.
Sheffield	29.03	737 3	29.30	744.2	45.3	7.4	80	ssw.	.....	.....	2	.....	1	.....	.....	0	0	blue sky	W. F. Cooper.
Silloth Rectory	29.18	741.2	29.21	741.9	40.5	8.1	82	s.	.....	.....	2	.....	2	.....	.....	0.015	0.4	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.30	744.2	41.9	5.5	79	ssw.	7	3.1	.....	.....	5	.....	.....	.....	.....	misty	Rev. S. J. Perry.
Strathfield Turgiss	29.19	741.4	29.40	746.7	47.7	8.7	81	sw.	.....	.....	2	.....	5	.....	.....	.....	.....	blue sky	Rev. C. H. Griffiths F.M.S.
Truro, Royal Institution	29.32	744.7	29.36	745.7	48	8.9	71	w.	.....	.....	4	.....	6	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.09	738.9	29.12	739.6	45.7	7.6	79	ssw.	34	15.2	.....	.....	7	.....	.....	blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	3	—16.1	.....	nw.	3	1.3	.....	1 c	0	.....	.....	0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.86	758.4	29.90	759.4	8	—13.3	89	w.	16	7.2	.....	0	0	.....	.....	0.170	4.3	clear	H. J. Cundall, C. E
Chatham, N. B*	29.94	760 4	30.01	762.2	3	—16.1	91	w.	8	3.6	.....	0	0	.....	.....	0	0	d. clouds	G. A. Blair
Cornwall	30.10	764.5	30.32	770.1	3 0	—16.1	100	w.	.....	.....	1	0	4 8	.....	.....	0	0	clear	Jas. Smith, M. A.
Dalhousie	29.92	760.0	29.97	761.2	2.5	—16.4	.....	w.	.....	.....	3	0	0	.....	.....	0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.05	763.3	30.07	763.8	3	—16.1	91	w.	25	11.2	.....	0	2 s	.....	w.	inap.	inap.	clear	J. McWilliams.
Fort Garry, Manitoba*	29.41	747.0	30.42	772.7	—31	—35.0	100	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton	30.05	763.3	30.12	765.0	5.1	—14.9	73	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	Prof. Harrison, L. L. D.
Granton	29.27	743.4	30.53	775.4	3.7	—15.7	93	sw.	5	2.2	.....	3 cs	0	.....	sw.	0.1	3.	blue sky	Jas. Grant.
Halifax, N. S*	29.87	728.7	30.00	762.0	17	— 8.3	70	w.	12	5.4	.....	0	0	.....	.....	0.381	9.7	clear	A. Allison.
Hamilton	29.99	761.7	30 43	772.9	0.2	—14.3	88	sw.	.....	.....	2	2 k	0	.....	sw.	0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.99	761.7	30.36	771.1	11	—11.7	80	ne.	2	0.9	.....	2 cs	0	.....	w.	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	30.10	764.5	30.33	770.4	3	—16.1	72	w.	17	7.6	.....	.....	10 ks	.....	.....	0	0	cloudy	C. H. McLeod, C. E.
Ottawa	30.06	763.5	30.34	770.6	— 0.9	—18.3	95	calm	.....	.....	0	.....	hz.	.....	w.	0	0	hazy	A. McGill, M. A.
Parry Sound, Ontario*	29.61	752.1	30.39	771.9	4	—15.6	72	e.	8	3.6	.....	2 k	8 ks	w.	w.	0.03	0.8	cloudy	Rev. R. Mosley.
Peterboro	29.57	751.1	30.41	772.4	5.8	—14.6	75	calm	.....	.....	0	3 k	0	w.	w.	0	0	fine	J. Dixon, B. A.
Port Dover, Ontario	29.70	754.4	30.48	774.2	0	—14.4	100	w.	7	3.1	...	10 cs	0	sw.	.....	0	0	fair	H. Morgan.
Port Stanley, Ontario	29.77	756.1	30.50	774.7	5	—15.0	96	w.	5	2.2	.....	0	5 ks	.....	.....	0	0	fair	M. Payne.
Quebec, Quebec*	29.89	759.2	30.24	768.1	0	—17.8	68	nw.	.....	.....	3	2 c	2 c	nw.	nw.	0.20	5.1	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.83	757.7	30.36	771.1	—11	—23.9	78	w.	2	0.9	.....	0	0	.....	.....	0	0	.....	W. H. McIntyre.
Saugeen, Ontario*	29.59	751.6	30.36	771.1	19	— 7.2	96	sw.	16	7.2	.....	.....	10 ks	.....	.....	0.08	2.0	cloudy	.....
St. Andrews, N. B	30.08	764.0	30.13	765 3	10	—12.2	89	nw.	9	4.0	.....	0	0	.....	.....	0.01	0.3	clear	.....
St. John, N. B	29.94	760.5	30.13	765.3	10.0	—12.2	100	nw.	12	5.4	.....	0	0	.....	.....	0	0	blue sky	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.49	749.0	24.8	— 4.0	.....	nw.	.....	.....	7	.....	.....	.....	.....	0	0	.....	The Commandant.
Stratford	29.03	737.3	30.48	774.2	— 0.7	—18.2	97	calm	0	0	.....	0	5 8	.....	.....	0.20	5.1	d. clouds	C. J. Macgregor, M. A.
Sydney, C. B*	29.09	754.1	29.70	755.9	18	— 7.8	87	w.	35	15.6	.....	.....	10 n	.....	w.	0.25	6.3	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	30.01	762.2	30.43	772.9	10	—12.2	80	w.	6	2.7	.....	0	0	.....	.....	0.01	0.3	clear	Magnetic Observatory.
Windsor	29.90	759.4	30.00	762.0	14.0	—10.0	91	w.	12	5.4	.....	1 k	0	.....	.....	inap.	inap.	clear	Prof. W. H. Butler.
Woodstock	29.30	744.2	30.51	774.9	2.3	—16.5	84	sw.	4	1.8	.....	3 cs	0	w.	.....	0	0	blue sky	Prof. Wolverton, M. A.
Yarmouth, N. S*	30.06	763.5	30.13	765.3	22	— 5.0	70	nw.	10	7.2	.....	0	8 k	.....	nw.	0.27	6.9	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	29.88	758.9	29.91	759.7	72.0	22.2	74	sw.	12.7	5.7	.....	0	7 ks	.....	.....	0	0	hazy	John Duthie.
Springbok Fontein	27.89	708.4	.....	.....	80	26.7	58	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction Upper.	Clouds. Direction Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.66	626.3	.....	.....	18.9	— 7.3	.....	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.26	768.5	30.37	771.3	23.0	— 5.0	93	ne.	.....	.....	3	.....	0	.....	.....	0	0	.....	**Mission, S. J.**
Zi-Ka-Wei, near Shanghai	30.36	771.2	30.39	771.8	35.1	1.7	93	nne.	1.6	0.7	.....	4 c	0	w.	.....	0	0	cloudy	M. Marc Dechevrens, S.J
Danish.																			
Copenhagen	29.76	755.8	29.80	757.0	28.6	— 1.9	88	se.	36	16	.....	.....	10	.....	.....	.....	.....	.....	**Oversergent Fischer.**
Fanoe	29.69	751.7	29.61	752.2	30.0	— 1.1	88	se.	.....	.....	6	.....	8	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	29.05	737.8	29.09	738.9	20.1	— 6.6	87	nne.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Ivigtut, Greenland	29.12	739.6	29.14	740.1	15.6	— 9.1	.....	calm	.....	.....	0	.....	7	.....	.....	.....	.....	.....	**Loerer Oesterbol.**
Jacobshavn, Greenland	29.16	740.7	29.21	741.9	19.0	— 7.2	.....	se.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.55	725.2	28.60	726.3	36.0	2.2	87	ne.	.....	.....	6	.....	8	.....	.....	.....	.....	.....	
Thorshavn	28.91	734.3	28.95	735.2	44.2	6.8	87	se.	21.3	9.5	.....	.....	10	.....	.....	.....	.....	.....	**A. O. Thorlacius.**
Vestervig	29.57	751.1	29.66	753.4	28.6	— 1.9	88	e.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Upernavik, Greenland	29.27	743.5	29.32	744.7	12.9	—10.6	.....	e.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	**Loerer Oesterbol.**
French.																			
Agen, Normal School	29.17	741.0	29.83	757.6	47.5	8.6	89	w.	.....	.....	1	.....	n;kn	.....	w.	0	0	snowing	
Alençon, Normal School	29.01	736.8	29.59	750.8	45.0	7.2	97	ssw.	.....	.....	1	.....	n	nne.	nne.	0	0	.....	**M. Labroue, Director.**
Arras, Engineer School	29.28	743.6	29.54	750.2	33.3	0.7	.....	.....	.....	.....	4	.....	.....	.....	.....	0	0	.....	**M. Nicot, Director.**
Avignon, Normal School	29.45	748.0	29.53	750.0	47.5	8.6	78	nnw.	.....	.....	1	.....	10	.....	.....	0	0	.....	**M. Fénéon, Command't.**
Bar-sur-Seine	29 06	738.2	29.63	752.5	44.2	6.8	81	ssw.	.....	.....	1	.....	10	.....	.....	0	0	covered	**M. Giraud, Director.**
Beauvais, Normal School	29.26	743.2	29.52	749.9	45.7	7.6	91	s.	.....	.....	1	.....	10	.....	s.	0.020	0.5	light rain	**M. Saillard, Director.**
Besançon, Normal School	28.71	729.3	29.65	753.2	43.2	6.2	91	s.	.....	.....	1	.....	10	.....	wsw.	0.114	2.9	raining	**M. Frère Eugène Marie.**
Bordeaux, Observatory	29.42	747.4	29.69	754.0	51.6	10.9	81	wsw.	.....	.....	1	.....	n	.....	sw.	0	0	.....	**M. Gobin, Director.**
Bourges, Normal School	29.06	738.0	29.61	752.2	44.6	7	91	ssw.	.....	.....	2	.....	8	.....	w.	0.087	2.2	very cloudy	**M. Rayet, Director.**
Brest, Naval Observatory	29.27	743.4	29.51	749.6	47.1	8.4	94	w.	.....	.....	1	.....	10 n	.....	ssw.	.....	.....	raining	**M. Malet, Director.**
Caen, Normal School	29.38	740.3	29.46	748.2	47.8	8.8	76	ne	.....	.....	1	.....	10	.....	w.	0.335	8.5	raining	**M. de Kermaingé, Dir.**
Châlons-sur-Marne, N.Sch'	29.24	742.6	29.63	752.6	42.6	5.9	84	se.	.....	.....	1	.....	0	.....	.....	0.087	2.2	clear	**M. Berson, Director.**
Charleville, Normal School	29.00	736.5	29.52	749.7	42.4	5.8	87	e.	.....	.....	2	.....	10	.....	.....	0	0	covered	**M. Jadot, Director.**
Clermont-Ferrand Obs'y	28.28	718.3	29.67	753.6	37.6	3.1	95	se.	.....	.....	1	.....	10	.....	.....	0	0	covered	**M. Grimard, Director.**
Cluny, Normal School	28.82	732.1	29.76	755.9	34.7	1.5	98	.....	.....	.....	1	.....	10	.....	.....	0	0	hazy	**M. Allnard, Director.**
Commercy, Normal School	28.77	730.7	29.66	753.3	36.0	2.2	93	e.	.....	.....	.....	.....	10	.....	.....	.....	.....	light rain	**M. de Villemontée, Dir.**
Gap, Normal School	27.20	690.9	29.76	755.9	42.8	6	70	.....	.....	.....	1	.....	10 n	e.	e.	0	0	covered	**Dr. Coulet, Director.**
Gréasque, du Rhone	28 59	726.1	29.71	754.5	54.1	12.3	59	se.	.....	.....	.....	.....	5	.....	.....	0.12	3.	.....	**M. Jeangirard, Director.**
Grenoble, Normal School	28.89	733.8	29.67	753 7	44.2	6.8	97	ne.	.....	.....	2	.....	8	.....	se.	0	0	.....	**M. Kina, Director.**
Guéret	28.06	712 8	29.67	753.6	42.4	5.8	85	sw.	.....	.....	1	.....	n	.....	s.	0	0	.....	**M. Ablard, Director.**
Lamballe, Normal School	29.20	741.7	29.47	748.5	48.2	9	89	sse.	.....	.....	1	.....	n	.....	s	0.354	9.0	.....	**M. Delorme, Dir.**
Lescar, Normal School	29.17	740.9	29.74	755.3	48.6	9.2	71	w.	.....	.....	2	.....	10	.....	sse.	0.252	6.4	covered	**M. Ollitrault, Director.**
Lorient, Naval Observatory	29.41	747.1	29.52	749.7	48.2	9.0	73	sw.	.....	.....	1	.....	10 k	.....	.....	0.087	2.2	covered	**M. Chauvin, Director.**
Lyon, St. Genis-Laval	28 60	720.3	29.66	753.3	43.9	6.6	73	sse.	.....	.....	1	.....	10	calm	sw.	0.118	3.0	covered	**Lt. T. Carré, Director.**
Mans, Normal School	29.30	744.3	29.65	753.2	45.5	7.5	95	ssw.	.....	.....	1	.....	10 ckn	.....	.....	0	0	covered	**M. André, Director.**
Marseille, Observatory	29.44	747 7	29.74	754.6	56.5	13.6	67	ene.	.....	.....	3	.....	10	.....	sw.	0.24	6.	covered	**M. Piboën, Director.**
Montlouis	24.50	622.3	29.34	745.3	35.2	1.8	74	w.	.....	.....	1	.....	10	.....	s.	0.287	7.3	.....	**M. Stephan, Director.**
Montpellier, Normal School	29.57	751.1	29.70	754.4	47.1	8.4	89	nw.	5.6	2.5	.....	.....	8	w.	.....	0	0	.....	**M. Caré for Dr. Fines.**
Nancy, Normal School	28.82	732.1	29.63	752.6	35.2	1.8	97	wsw.	.....	.....	1	.....	8	.....	se.	0.102	2.6	.....	**M. Galzin, Director.**
Nantes, Observatory	29.44	747.7	29.60	751.8	54.1	12.3	69	sw.	.....	.....	1	.....	fg	.....	.....	0	0	dense fog	**M. Hasse, Director.**
Perpignan, Observatory	29.60	751.9	29.72	754.8	51.1	10.6	79	ne.	11.2	5.0	0–1	0	4 k;kn	.....	sw.	0.228	5.8	.....	**M. Larocque, Director.**
Pic-du-Midi, Summit	20.86	529.9	.....	.....	19.4	— 7.0	.....	ne.	.....	.....	.....	.....	10	.....	n.	0	0	.....	**Dr. Fines, Director.**
Privas, Normal School	28.69	728.6	29.76	755 8	47.8	8.8	63	s.	.....	.....	1	.....	10	.....	ne.	0.079	2.0	snowy	**M. Vaussenat.**
Puy de Dôme Obs'y, Summit	24.69	627.0	.....	.....	30.2	— 1.0	100	wsw.	.....	.....	1	.....	10	.....	s.	0	0	covered	**M. Tailleu.**
Rochefort, Naval Obs'y	29.59	751.5	29.62	752.3	51.4	10.8	80	sw.	.....	.....	4	.....	10	.....	.....	0.004	0.1	covered	**M. Allnard, Director.**
Roche-sur-Yon, N. School	29.37	745.9	29.58	751.4	51.6	10.9	77	sww.	.....	.....	1	.....	0	.....	.....	1.18	30.	clear	**Lt. E. Decante, Director.**
Rodez, Normal School	27.55	699.8	29.74	755.4	40.3	4.6	93	n.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	**M. Brotier, Director.**
Rouen, Normal School	29.49	749.1	29.54	750.3	46.0	7.8	91	wsw.	.....	.....	1	.....	1	.....	n.	0.055	1.4	clear	**M. Seger, Director.**
Saint Lô	.....	.....	.....	.....	49.6	9.8	74	ssw.	.....	.....	1	.....	10	.....	sw.	0.280	7.1	raining	**M. Moutiliot.**
Saint Maur, Observatory	29.37	746.0	29.54	750.2	45.1	7.3	97	s.	.....	.....	1	.....	5	.....	sw.	0.130	3.3	cloudy	**M. Delaplanche, Dir.**
Toulouse, Observatory	29.06	738.2	29.78	756.5	46.4	8.0	94	w.	.....	.....	1	.....	10	.....	sw.	0.201	5.1	.....	**M. Renou, Director.**
Tours	29.40	746.8	29.58	751.2	47.5	8.6	92	sw.	.....	.....	2	.....	10	w.	.....	0.094	2.4	covered	**M. Baillard, Director.**
Versailles, Observatory	29.04	737.7	29.54	750.2	43.9	6.6	94	sw.	.....	.....	1	.....	10	.....	wsw.	0.378	9.6	raining	**M. de Tastes.**
Sub-series.											1	.....	.....	.....	.....	0.350	8.9	.....	**Dr. A. Bérigny, Director.**
St. Martin du Hinx	29.63	752 7	29.78	756.5	47.1	8.4	91	w.	7.8	3.5	.....	0	9 k;kn	.....	wnw.	0.276	7.0	.....	**M. Cartier, Director.**
German.																			
Ansbach	28 24	717.4	29.75	755.7	29.8	— 1.2	100	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	**Prof. Jnedt.**
Bamberg	28.86	733.0	29.69	754.2	34.7	1.5	77	ne.	.....	.....	1	9	7 k8	.....	.....	.....	.....	foggy	**Prof. Dr. Hoh.**
Berlin	29.63	752.5	29.78	756.3	33.8	1.0	52	ne.	.....	.....	3	.....	1	.....	.....	0	0	.....	**Dr. Lensch.**
Breslau	29.37	745.9	29.89	759 3	28.9	— 1.7	72	ese.	.....	.....	3	.....	0	.....	.....	0	0	.....	**Royal University Obs'y.**
Carlsruhe	29.23	742.5	29.67	753.7	39.7	4.3	69	sw.	.....	.....	1	.....	0	.....	.....	0	0	foggy	**Albert Senz.**
Cassel	28.91	734.3	29.62	752.4	32.7	0.4	92	s.	.....	.....	1	.....	10	.....	.....	map.	map.	.....	**Dr. H. Möhl.**
Frankfort-on-the-Main	29.33	745 0	29.71	754.6	32.2	0.1	90	n.	.....	.....	1	.....	10	.....	.....	0	0	.....	**Physical Society.**
Friedrichshafen	28.24	717.3	29.71	754.7	35.6	2.0	100	w.	.....	.....	1	.....	10	.....	.....	0	0	foggy	**Wilhelm, Chief Tel.**
Hamburg	29.56	750.8	29.65	753.1	29.5	— 1.4	82	se.	.....	.....	4	.....	0	.....	.....	0	0	hazy	**E. Preller.**
Kiel	29.67	753.7	29.69	754.1	29.5	— 1.4	77	e.	.....	.....	2	.....	3	.....	.....	0	0	.....	**Prof. Dr. G. Karsten.**
Leipsic, Astron'l Obs'y	29.30	744.1	29.72	755.0	35.6	2.0	66	ene.	.....	.....	1	.....	0	.....	.....	0	0	.....	**H. Leppig, Asst.**
Magdeburg	29.48	748.9	29.68	753.8	36.1	2.3	59	ese.	.....	.....	2	.....	0	.....	.....	0	0	hazy	**Weather Observatory.**
Memel	30.23	767.9	30.28	769.1	12.2	—11.0	79	se.	.....	.....	4	.....	0	.....	.....	.....	.....	clear	**Issermann.**
Munich	27.83	706.8	29.67	753.5	36.9	2.7	68	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	**Central Station.**
Neufahrwasser	30.13	765.2	30.14	765.6	19.9	— 6.7	76	se.	.....	.....	4	.....	5	.....	.....	0	0	.....	**A. Lothes.**
Neustadt, Palatinate	29.11	739.5	29.63	752 7	36.9	2.7	74	calm	.....	.....	0	.....	3	.....	.....	0	0	.....	**Dicknether.**
Stuttgart	28.72	729.6	29.65	753.0	35.2	1.8	97	ne.	.....	.....	1	.....	10	.....	.....	0.035	0.9	rain & fog	**Prof. Dr. Schoder.**
Wustrow	29.85	758.3	29.88	758.9	25.0	— 3.9	79	ese.	.....	.....	3	9	5 8	.....	.....	0	0	.....	**Profs. Brandes & Reimer.**
Greek.																			
Athens	29.35	745.4	29.73	755.2	62.4	16.9	.....	se.	.....	.....	2.5	.....	9	.....	.....	0.953	24.2	covered	**Schmidt & Wourlisch.**
Indian.																			
Kurrachee	30.01	762.1	30.06	763.4	75.9	24.4	58	wsw.	17.0	7.6	.....	.....	0	.....	.....	0	0	blue sky	
Deesa	29.48	748.9	29.96	761.0	82.1	27.8	23	ssw.	7.0	3.1	.....	.....	6	sw.	.....	0	0	**d. clouds**	
Bombay	29.90	759.4	29.94	760.4	81.8	27.7	65	w.	9.0	4.0	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.07	713.1	29.92	760.0	82.1	27.8	28	ene.	9.0	4.0	.....	.....	2	w.	.....	0	0	d. clouds	
Belgaum	27.38	695.5	29.92	759.9	77.5	25.3	33	se.	6.0	2.7	.....	.....	6	se.	.....	0	0	d. clouds	
Lahore	29.28	743.7	30.05	763.4	64.1	17.8	51	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	29.12	739.8	30.06	763.5	64.2	17.9	53	calm	0	0	.....	.....	8	w.	.....	0	0	.....	
Agra	29.48	748.8	30.06	763.6	69.2	20.7	48	w.	.....	.....	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.94	735.1	30.00	761.9	77.2	25.1	31	calm	2.0	0.9	.....	.....	2	w.	.....	0	0	d. clouds	
Jubbulpore	28.68	728.3	30.06	763.5	71.8	22.1	51	calm	2.0	0.9	.....	.....	10	ne.	.....	0	0	overcast	
Lucknow	29.68	753.9	30.08	763.9	65.3	18.5	56	calm	0	0	.....	.....	5	ene.	.....	0	0	d. clouds	
Allahabad	29.74	755.3	30.06	763.6	62.8	17.1	77	calm	0	0	.....	.....	9	.....	.....	0	0	d. clouds	
Patna	29.86	758.0	30.06	763.5	66.6	19.2	61	w.	2.5	1.1	.....	.....	4	w.	w.	0	0	d. clouds	
Hazaribagh	27.99	710.9	30.08	764.1	59.7	15.4	52	n.	3.7	1.6	.....	.....	7	.....	n.	0	0	d. clouds	
Cuttack	29.94	760.5	30.03	762.7	72.4	22.4	58	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	30.01	762.3	30.04	762.9	64.3	17.9	63	nnw.	2.0	0.9	.....	.....	0	.....	.....	0	0	foggy	
Dhubri	29.88	759.0	30.01	762.1	66.1	18.9	77	ne.	2.2	1.0	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.90	759.6	30.00	761.9	69.8	21.0	69	w.	1.8	0.8	.....	.....	3	.....	.....	0	0	blue sky	
Sibsagar	29.72	754.8	30.07	763.7	62.3	16.8	80	sw.	2.0	0.9	.....	.....	4	.....	.....	0	0	blue sky	
Zanzibar	29.77	756.2	29.80	756.8	85.6	29.8	62	ne.	12.7	5.7	.....	.....	8	.....	.....	0	0	**d. clouds**	
Jeypore	28.55	725.1	30.03	762.7	69.7	20.9	54	se.	3.5	1.6	.....	.....	8	se.	.....	0	0	d. clouds	
Bellary	28.48	723.4	.....	.....	80.0	26.7	45	e.	8	3.6	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.68	753.9	.....	.....	80.9	27.2	56	ene.	1	0.4	.....	.....	2	.....	.....	0	0	d. clouds	

International Chart I. January 15, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B. Hazen, Chief Signal Officer.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.																			
Udine	29.36	745 8	29.78	756.5	48.7	9.3	71	ne.	1.8	0.8			10			0.327	8.3		Prof. Giovanni Clodig.
Milan	29.25	743.0	29.79	756.7	42.8	6.0	88	nw.	1.3	0.6			9	se.		0.012	0.3		Prof. Schiapparelli.
Padua	29.65	753.0	29.76	755.9	48.6	9.2	81	nne.	0.9	3.7			10	se.		0.101	4.1		Prof. Dott. Lorenzoni.
Moncalieri	28.87	733.2	29.81	757.2	40.6	4.8	80	ne.	1.5	0.6			9			0	0		Prof. F. F. Denza.
Genoa	29.51	749.5	29.70	754.4	51.8	11.0	71	ne.	6.3	2.8			4	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.85	707.4	29.84	757.9	44.2	6.8	79	w.			2		7			0	0		Prof. D. C. Bruno.
Pesaro	29.67	753.7	29.72	755.0	47.8	8.8	94	nw.	2.5	1.1			10			0.063	1.6		Prof. Luigi Guidi.
Florence	29.43	747.4	29.69	754 0	55.8	13.2	64	n.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	29.54	750.3	29.63	752.5	55.4	13.0	67	nnw.	8.7	3.9			0			0	0		Prof. P. Monte.
Rome	29.47	748.4	29.64	752.9	58.5	14.7	65	calm	0	0			3			0.114	2.9		Prof. P. Tachini.
Lecce	29.43	747.6	29.69	754.1	54.9	12.7	83	se.	25.5	11.4			10	sw.		0.300	9.3		Prof. C. de Giorgi.
Cosenza	28.76	730.6	29.66	753.4	51.4	10.8	75	se.	2.5	1.1			9	e.		0.098	2.5		Prof. D. Conti.
Cagliari	29.45	748 1	29.65	753.1	58.5	14.7	72	nw.			4		8			0.012	0.3		Prof. A. Pacinotti.
Palermo	29.39	746.4	29.64	752.8	59.9	15.5	58	calm	0	0			8			0	0		Prof. G. Caccianto're.
Syracuse	29.55	750.5	29.59	751.6	57.9	14.4	78	sse.	8.7	3.9			8	sw.		0.335	8.5		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.11	739.5	29.63	752.6	58.8	14.9	68	e.	0	0			3	se.		0.252	6.4		Prof. F. Brioschi.
Stelvio	21.86	555.1			25.2	— 3.8	84	sw.			2		4			0	0	misty	Prof. P. F. Denza.
Valdobbia	21.93	557.0			27.7	— 2.4	71	n.			2		10			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.15	765.8	30.18	766.6	24.0	— 4.4	100	calm			0		10 ck		W.	0	0	cloudy	Hattori.
Awomori	30.13	765.2	30.16	766.2	24.0	— 4.4	73	ssw.	9.5	4.2		0	8 ck			0.050	1.3	overcast	K. Ogawa.
Hakodate	30.16	766.0	30.17	766.3	21.0	— 6.1	76	n.	9.0	4.0		0	3			0.024	0.6	clear	
Hamamatsu	30.08	764.0	30.11	764.7	36.2	2.3	77	calm			0	0	0			0	0	clear	
Kagoshima	30.20	767.2	30.22	767 5	43.7	6.5	67	nnw.			4	0	0			0.004	0.1	clear	G. Miyanohaza.
Kioto	29.99	761.7	30.17	766.4	32.1	0.1	90	n.	0.7	0 3		0	0			0	0	clear	M. Tojima.
Kochi	30.16	765.9	30.18	766.4	39.5	4.2	84	w.	2.7	1.2		0	0			0	0	clear	K. Kusunose.
Misaaka	30.16	766.1	30.19	766.8	40.3	4.6	77	calm			0	0	1 ck		W.	0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.00	762.0	30.21	767.4	45.1	7.3	77	ne.	2.1	0.9			10 s			0.020	0.5	light rain	S. Takehayashi.
Niigata	30.06	763.5	30.10	764.5	33.4	0.8	79	se.	3.8	1.7			10 ck;s		sw.	0.110	2.8	cloudy	M. Morita.
Nobiru	30.18	766.0	30.20	767.0	28.1	— 2.2	86	nnw.	1.6	0.7			10 ns			0	0	covered	H. Midzushina.
Numazu	30.09	764.2	30.12	765.1	40.1	4.5	76	ese.			4	0	0			0	0	clear	R. Kaneda.
Sakai	30.27	768.9	30.28	769.2	39.9	4.4	90	sw.			2		9 n;ks		W.	0.140	3.7	light rain	K. Yamawchi.
Sapporo					2.8	—16.2	96	calm	0	0		0	0			0	0	clear	
Tokei Obs'y, Yeddo	30.08	764.0	30.16	766.0	39.6	4.2	76	ene.	2.5	1.1			10 ck;ks		sw.	0	0	cloudy	The Staff.
Wakayama	30.12	765.1	30.18	766.5	37.6	3.1	84	ene.	7.1	3.2		0	0			0	0	clear	Y. Kuwamura.
Osaka	30.17	766.2	30.18	766.6	35.3	1.8	97	n.	2.8	1.2		0	0			0	0	clear	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.65	753 1	29.84	757.9	78.8	26.0	80	ne.	15.5	6.9		2cs;ck	8 ks		nne.	1.62	41.1	cloudy	Oliver & Figon.
MEXICAN.																			
Altata					55.5	13.1	100	e.										dense fog	H. Diaz Pena.
Guanajuato	23.69	601.7	29.91	759.7	48.6	9.2	95	calm	0	0		2 c	0			inap.	inap.	light fog	Prof. Vicente Fernandez.
Leon	24.35	618.5	30.19	766.8	45.7	7.6	92	n.			1	0	0			0	0	clear	Prof. M. Leal.
Mazatlan	29.82	757.3	30.08	764.0	63.5	17.5	86	ne.	0.9	0.4		0	1 k			0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	586 9	30.26	768.4	49.1	9.5	77	calm	0	0		0	7 k		sw.	0	0	cloudy	The Staff.
Morelia	24 38	619.3	30.20	768.7	44.1	6.7	63	e.			1	1 c	2 k	s.	s.	0	0	½ cloudy	M. Tena, M. D.
Puebla, Catholic Institute	23 44	595.3	30.20?	769.7?	47.3	8.5	92	calm	0	0		0	3		sw.	0	0	cloudy	Prof. P. Spina.
Zacatecas	22.50	571.5	30.23	767.9	45.2	7.5	87	sw.	14.9	6.6			9 kn		sw.	0	0	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.46	748.2	29.46	748.2	42.1	5.6		s.			4					0	0		
Groningen	29.48	748.7	29.53	750.1	36.5	2.5		s.			2					0	0		
Helder																			
Hellevoetsluis																			
Utrecht	29.46	748.3	29.46	748.3	40.6	4.8	87	ssw.			2					0.209	5.3		
Sub-series.	29.46	748.3	29.51	749.5	40.8	4.9	85	sse.			2		8			0.059	1.5	very cloudy	H. van der Brink.
Batavia, Java	29.84	758.0			77.5	25.3	88	nnw.	0	0			1			0.71	18.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen																			
Brono	29.38	740.3	29.45	747.9	37.4	3.0	73	w.	2	1			9			0	0		
Christiansund	29.01	752.2	29.05	753.2	37.4	3.0	59	sse.	0	4			5			0	0		
Glassvær	29.82	757.4	29.98	761.4	23.4	— 4.8	84	ne.	13	6			10			0.004	0.1		
Lodingen	29.78	756.3	29.80	756.9	35.6	2.0		w.			4		8						
	29.73	755.1	29.78	756.3	24.6	— 4.1	77	ne.			2		1			0	0		
PORTUGUESE.																			
Angra, Azores	30.25	768.3	30.41	772.3	59.0	15.0	78	nnw.	9.8	4.4			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.01	730.8	30.03	762.7	49.6	9.8	92	sw.	8.7	3.9			9			0.130	3.3		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.17	766.3	30.20	768.0	67.1	19.5	57	sw.	6.9	3.1			1			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.74	755.4	30.11	764.7	56.1	13.4	59	wnw.	16.8	7.5			5			0.122	3.1		The Staff.
Ponta Delgada, Azores	30.30	771.2	30.43	773.0	61 9	16.6	58	nnw.	4.9	2.2			4			0	0		
Saint Paul de Loando	29.09	754.0	29.88	759.0	77.7	25.4	95	wsw.	1.8	0.8			3	se.		0	0		
Serra da Estrella	25.08	637.0	29.95	760.8	32.9	0.5	100	nw.	24.8	11.1			10					foggy	
RUSSIAN.																			
Akmolinski	28.85	732.7	30.05	763.2	— 1.1	—18.4	95	s.	4	2			9 k						Major K. Lasarew.
Archangel	29.92	759 9	29.94	760.4	11.5	—11.4	93	sw.	4	2			10			0.098	2.5		Capt. Sselliwerstow.
Ashuruda	30.20	768.5	30.10	766.1	49.8	9.9	65	ene.	9	4		ck	7 s			0	0		
Astrakhan	30.56	776.3	30.48	774.2	— 0.2	—21.2	72	nw.	9	4		0	0			0	0		Capt. Wisganow.
Baku	30.27	768.9	30.22	767.7	30.0	2.2	87	nnw.	13	6			10 k			0	0		
Barnaul	29.77	756.1	30.33	770.3	0.3	—17.6	86	ne.	4	2			2					snowing	Meteorological Obs'y.
Bielosersk	29.77	756 2	30.30	769.5	5.2	—14.9	91	wsw.	2	1			10 n			0	0		
Dorpat	30.22	767.7	30.49	774.6	4.5	—15.3	90	calm	0	0		1 cs	0			0	0	light clouds	Observatory.
Ekaterinburk	28.87	733.3	29.99	761.7	—22.0	—30.0	68	w.	13	6		3 c	0			0	0	light clouds	Meteorological Obs'y.
Elissawetgrad	30.15	765.8	30.05	778.6	7.2	—13.8	80	e.	7	3		4 cs	0			0	0		
Irkutsk	29.05	737.9	30.95	786.1	— 0.7	—21.5	80	calm			0		0			0	0		
Kasan	29.90	759.5	30.21	767.3	— 7.2	—21.8	78	wsw.	11	5			10			0.024	0.6		Observatory.
Kem	29.93	760.3	29.98	761.6	13.1	—10.5	97	w.	9	4		0	7 ks			0	0	light clouds	
Kertch	30.44	773.2	30.40	773.7	11.1	—11.6	85	ene.	11	5		0	7 n			0	0		Lagorio & Sastyrez.
Kieff	29.92	760.0	30.04	778.2	3.2	—16.0	90	ese.	11	5		0	0			0	0		Observatory.
Koslov	29.98	761.5	30.58	770.7	— 0.0	—21.1	87	nw.	4	2			10 s			0	0		
Libau	30.28	769 1	30.39	769.7	16.7	— 8.5	67	e.	11	5			0			0	0		E. Quaas.
Lugan	30.38	771.7	30.60	777.1	— 0.8	—18.2	55	nw.	4	2			0			0	0		Meteorological Obs'y.
Moscow	29.97	761.2	30.51	775.0	4.3	—15.4	85	w.	8.9	4.0		cs	7 ks			0	0		
Nikolaiev	30.48	774.2	30.50	776.1	7.7	—13.5	80	ene.	22	10		2 cs	0			0	0	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.42	772.7	30.47	774.0	—20.2	—29.0	72	w.	4	2			10			0	0		Iwanow.
Pekin, China	30.29	769.4	30.43	773.0	20.8	— 0.2	28	nw.	11	5		0	0			0	0		Physicla Observatory.
Petrozavodsk	29.97	761.1	30.18	766.6	14.0	—10.0	87	nw.	22	10			10			0.028	0.7	light clouds	Dr. Bergmann.
Pinsk	29.97	761.1	30.52	775.1	8.8	—12.9	80	se.	18	8		0	0			0	0		
Port	30.08	763 9	30.10	764.4	38.8	3.8	43	calm	0	0			10 n			0	0		
St. Petersburg	30.40	772.2	30.42	772.6	3.7	—15.7	90	wsw.	9	4			9 s;n			inap.	inap.	light snow	Central Physical Obs'y.
Samarkand																			
Sevastopol	30.01	762 2	30.17	766.4	34.5	1.4	89	calm	0	0		0	7 n			0	0		
Semipalatinsk	29.55	750 5	30.27	768 9	2.5	—16.4	95	nw.	4	2			5			0	0		Major Lasarew.
Staroi Bykhov	30.18	766.5	30.70	779 8	1.4	—17.0	90	se.	7	3		0	1 k			0	0		
Tiflis	28.75	730 3	30.24	768.0	35.4	1.8	62	calm	0	0			9 s			inap.	inap.		Physical Observatory.
Tomsk	30.08	764.0	30.40	772.2	— 9.8	—23.2	83	calm	0	0			0						
Viatka	29.37	746.0	30.07	763 8	— 1.1	—18.4		w.	4	2			8			0	0		
Warsaw	29.74	755.4	30.20	767.1	15.6	— 9.1	75	se.	25	11		0	0			0	0		Astronomical Obs'y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Wilna	30.05	763.3	30.52	775.2	7.9	—13.4	84	se.	2	1			0			0	0		Berg, Assistant.
Yeniseisk	30.39	771.9	30.72	780.2	— 3.3	—19.6	85	sw.	25	11			0			0	0		M. O. Marks.
Scottish.																			
Monach Lt			28.83	732.3	45	7.2	100	s.			7		10			0.5	13.	raining	J. Youngclauss.
North Unst			29.22	742.2				s.			8		10			blank	blank		Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.65	753.2	29.76	756.0	51.3	10.7	82	se.	1.6	0.7			10			0.035	0.9	covered	Antonio Rzve, Director.
Bilbao, Met. Obs'y	29.80	756.8	29.85	758.3	57.2	14.0	58	nw.	3.4	1.5		2	0	W.		0.134	3.4	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.87	682.4	29.89	759.3	42.8	0.0	70	w.	11.4	5.1			1			0.126	3.2	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.65	702.2	29.90	759.4	48.7	9.3	56	w.	19.7	8.8		0	2			0.134	3.4	clouds	The Staff.
Murcia, Met. Obs'y	29.69	754.2	29.84	757.9	61.5	16.4	70	nw.	2.0	0.9		1	1	sse.		0	0	almost clear	Olayo Diaz, Director.
Oviedo	28.89	733.9	29.77	756.2	47.3	8.5	64	e.	19.9	8.9		4 k	6 k	W.	W.	0.575	14.6	covered	Prof. L. G. Fradas.
Santiago, Met. Obs'y	28.89	733.8	29.80	757.0	45.5	7.5	90	sw.	4.3	1.9			10			1.311	33.3	rainy	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.84	757.8	29.89	759.2	77.3	25.2	73	nne.	22.1	9.9		0	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.6	30.08	764.1	56.8	13.8	80	nw.	15.7	7.0		0	3		nw.	0.074	1.9		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I.	30.02	762.5	30.11	764.8	73.8	23.2	98	calm	0	0			10 kn		se.	0.157	4.0	overcast	Manuel Maese.
Swedish.																			
Haparanda	30.01	762.3	30.05	763.3	1.4	—17.0	100	sw.			2		5			0	0		
Umea	30.08	764.0	30.13	765.3	21.9	— 5.6	96	wsw.			2		10			0	0		
Hernosand	30.08	764.1	30.13	765.4	20.5	— 6.4	97	sw.			2		8			0	0		
Stockholm	30.02	762.4	30.19	766.9	28.4	— 2.0	80	sse.			4		0			0	0		
Wisby	30.11	764.9	30.17	766 4	27.3	— 2.6	79	sse.			6		3			0	0		
Sub-series.																			
Upsala	30.07	763.7	30.15	765.9	24.1	— 4.4	95	se.	6.7	3.0			0			0	0		S. G. Fineman.
Swiss.																			
Geneva	28.26	717.7	29.72	754.9	41.7	5.4	79	sw.			1		9			0	0		The Observatory.
Turkish.																			
Constantinople			29.95	760.8	48.0	8.9	81	ene.	29	13.0			10		n.	0	0		The Observatory.
Valona			29.74	755.3	58.6	14.8		se.			1		10			0.83	21.	raining	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.87	758.8	66.0	18.9	77	n.			1	10 c	0			0	0		Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.64	676.6			34	1.1	92	e.			1		10 n		w.	0	0	threatening	Fred L. Kingsbury.
United States.																			
Albany, New York	30.28	769.1	30.36	771.1	25	— 3.9	67	w.	3	1.3			10 s		w.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.70	754 4	30.40	772.1	1	—17.2	72	w.	3	1.3		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.89	632.2	30.01	762.2	21	— 6.1	76	ne.	1	0.4			10 s			0	0	cloudy	W. G. Barnes.
Assinnaboine, Ft., Montana	27.11	688.6	30.15	765.8	9	—12.8	60	sw.	15	6.7		0	1 s		sw.	trap.	trap.	clear	B. O. Lenoir.
Atlanta, Georgia	29.10	739.1	30.33	770.4	31.0	— 0.6	72	ne.	12	5.4		3 cs	0	sw.		0	0	clear	H. C. Smith.
Atlantic City, New Jersey	30.42	772.7	30.43	772.9	14	—10.0	46	nw.	8	3.6		2 c	0			0.04	1.0	clear	Jas. M. Watson.
Augusta, Georgia	30.18	766.6	30.38	771.6	38	3.3	50	ne.	3	1.3		4 k	0	W.		trap.	trap.	fair	John Healy.
Baltimore, Maryland	30.45	773 4	30.50	774.7	21	— 6.1	58	calm	0	0			fg.			0.01	0.3	dense fog	Geo W Felger.
Barnegat, New Jersey	30.40	772.1	30.42	772.7	17.0	— 8.3	46	nw.	17	7.6		3 c	0			0.12	3.0	clear	G. A. Hill.
Behring Id., Behring Sea	29.18	741.2	29.20	741.7	27.2	— 2.7		n.	51	22.8			10 n			trap.	trap.	cloudy	Leonard Steineger.
Bennett, Fort, Dakota	28.53	724.6	30.27	768.8	— 2	—18.9	83	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.13	689.1	30.11	764.8	15	— 9.4	67	calm	0	0			10 s			0	0	cloudy	S. Wheaton.
Billings, Montana	26.73	678.9			10	—12.2		w.	8	3.6		0	8 s		w.	0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.24	717.3	30.23	767.8	— 6	—21.1	65	e.	4	1.8		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.33	770.4	30.39	771.1	23	— 5.0	73	n.	19	8.5		0	0			0.02	0.5	clear	J. T. Elker.
Boise City, Idaho	27.13	689.1	30.06	763.5	10	—12.2	91	nw.	2	0.9			10 s			0	0	cloudy	B. E. Light.
Boston, Massachusetts	30.16	766.1	30.33	770.4	24.0	— 4.4	80	nw.	10	4.5		0	fg			0.01	0.3	clear	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.97	761.2	56.0	13.3	93	s.	6	2.7		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.63	752.6	30.43	772.9	15	— 9.4	80	w.	10	4.5		2 ck	4 ks	W.	sw.	trap.	trap.	fair	W. Finn.
Buford, Fort, Dakota	28.04	712.2	30.24	768.1	—13	—25.0	50	calm	0	0		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	30.02	762.5	30.33	770.4	11.0	—11.7	80	e.	9	4.0			10 s		w.	trap.	trap.	cloudy	G. O. Schaeffer.
Cairo, Illinois	30.02	762.5	30.44	773.2	22.5	— 5.3	80	se.	9	4.0			10 s			0	0	cloudy	W. H. Ray.
Cape Henry, Virginia	30.46	773.7	30.48	774.2	24	— 4.4	73	n.	10	4.5		3 c	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.42	772.7	30.45	773.4	24.0	— 4.4	61	nw.	20	8.9		0	0			0.07	1.8	clear	W. E. Smith.
Cape Mendocino, California	29.46	748.3	30.16	766.1	40	4.4	82	nw.			2	2 k	0	nw.		0.04	1.0	cloudy	J. J. McLean.
Cedar Keys, Florida	30.17	766.3	30.19	766.8	58	14.4	87	ne.	7	3.1			10 s		e.	0.15	3.8	cloudy	F. W. Mixer.
Champaign, Illinois	29.58	751.3	30.45	773.4	14.5	— 9.7	62	se.	7	3.1			10 s		se.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.25	768.3	30.31	769.9	41	5.0	83	ne.	10	4.5		3 c	5 s		e.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.50	749.3	30.39	771.9	27.0	— 2.8	70	ne.	5	2.2		0	sk.			0.05	1.3	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.50	749.3	30.36	771.1	27.0	— 2.8	70	ne.	2	0.9		4 cs	0	W.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	23.85	605.8	30.10	764.5	2.3	—16.5	54	W.	1	0.4		0	0			0	0	clear	E. McHovern.
Chicago, Illinois	29.68	753.9	30.44	773.2	10.0	—12.2	83	W.	1	0.4		0	fg.			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.38	771.6	30.40	772.1	20	— 6.7	59	n.	22	9.8		3 ck	0			0.10	2.5	clear	C. F. Dickens.
Cincinnati, Ohio	29.82	757.4	30.51	774.9	17	— 8.3	83	n.	5	2.2			10 s		nw.	0	0	cloudy	R. B. Watkins.
Cleveland, Ohio	29.70	754.4	30.48	774.2	8	—13.3	82	sw.	4	1.8		5 cs	5 s	W.		0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.21	716 5	30.09	764.3	38	3.3	82	calm	0	0		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.59	751.6	30.49	774.4	13	—10.6	80	w.	2	0.9			10 s		w.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.08	713 2	30.10	764.5	42.0	5.6	76	n.	5	2.2			10 n			trap.	trap.	light rain	J. McGlone.
Davenport, Iowa	29.71	754.6	30.42	772.7	16	— 8.9	67	e.	6	2.7			10 n			trap.	trap.	light snow	W. B. Lamar.
Davis, Fort, Texas	25.12	638.0	30.10	764.5	39	3.9	79	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.34	719.8	30.14	765.5	25	— 3.9	100	calm	0	0			10 n			0.19	4.8	light snow	D. Moore.
Deadwood, Dakota	25.23	640.8	30.17	766.3	— 5	—20.6	100	ne.	5	2.2			10 s			0.05	1.3	cloudy	F. Willson.
Delaware Breakwater, Del.	30.44	773.2	30.46	773.7	22	— 5.6	88	n.	24	10.7		5 k	1 s	n.	n.	0.01	0.3	fair	T. S. Townsend.
Denison, Texas	29.33	745.0	30.17	766.3	36.0	2.2	61	e.	7	3.1			10 s			0	0	cloudy	J. W. Byram.
Denver, Colorado	24.60	624.8	30.12	765.0	12.5	—10.8	76	calm	0	0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.37	746.0	30.34	770.6	15	— 9.4	67	se.	2	0.9			10 n		se.	0.06	1.5	light snow	F. W. Conrad.
Detroit, Michigan	29.74	755.4	30.59	774.7	10.8	—11.8	80	sw.	8	3.6			10 s			0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.39	695.7	30.14	765.5	14	—10.0	50	nw.	14	6.3		0	0			0	0	clear	V. P. Temple.
Dubuque, Iowa	29.99	754.1	30.45	773.7	5	—15.0	52	calm	0	0			10 s			0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.61	752.1	30.42	772.7	—16	—26.7	100	calm	0	0		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29 24	742.7	30.08	764.0	48.0	8.9	86	se.	4	1.8			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.25	641.3	30.21	767.3	— 3	—19.4	71	sw.	4	1.8		0	6 s		sw.	0	0	fair	J. M. Clifford.
Eastport, Maine	30.09	764.3	30.16	766.1	9.5	—12.5	95	nw.	16	7.2		0	0			0.05	1.3	clear	D. C. Murphy.
Elliott, Fort, Texas	27.15	689.6	30.08	764.0	25	— 3.9	64	nw.	8	3.6		7 k	0	nw.		0	0	fair	W. J. Quindall.
El Paso, Texas	26.18	665.0	30.00	763.5	45.0	7.2	71	nw.	4	1.8			10 s		nw.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.70	754.4	30.47	773.9	15	— 9.4	83	sw.	9	4.0			10 s			0.16	4.1	cloudy	Peter Wood.
Escanaba, Michigan	29.73	755 1	30.45	773.4	— 6.0	—21.1	79	W.	4	1.8		0	0			0	0	clear	George Heathcote.
Fredericksburg, Texas	28 23	717.0	30.05	763.3	46	7.8	100	e.	4	1.8			10 s			0	0	cloudy	Frank Halwegler.
Galveston, Texas	30.07	763.8	30.12	765 0	49	9.4	80	e.	20	8.9			10 ks		W.	0	0	cloudy	E. O'C. Machuemay.
Grand Haven, Michigan	29.72	754.9	30.43	772.9	14.0	—10.0	80	calm	0	0		0	8 s		ne.	0.01	0.3	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.13	638.3	30.03	762.7	37	2.8	82	n.	4	1.8		0	8 s			0.05	1.3	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.38	771.6	30.49	772.1	35	1.7	89	ne.	16	7.2		6 c	hz.	e.		0.05	1.3	fair	R. M. Crawford.
Helena, Montana	25.66	651.8	30.09	764.3	20	— 6.7	87	calm	0	0		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas																			J. P. Sherry.
Huron, Dakota	28.72	729.5	30.26	768.6	4.8	—15.1	49	se.	5	2.2		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.62	752.3	30.46	773.7	15	— 9.4	66	ne.	4	1.8			10 s		ne.	0	0	cloudy	J. F. Jirdinston.
Indianola, Texas	29.97	761.2	30.09	762.0	53.0	11.7	93	e.	22	9.8		6 k	0	se.		0	0	fair	I. A. Reed.
Jacksboro, Texas	28.82	732.0	30.06	763.5	38	3.3	58	s.	5	2.2			10 s			0	0	cloudy	D. J. Carr.
Jacksonville, Florida	30.17	766.3	30.22	767.6	53	11.7	86	calm	0	0		5 cs	0	W.		trap.	trap.	fair	J. W. Smith.
Keogh, Fort, Montana	27.49	698.2	30.18	766.6	— 4	—20.0	68	sw.	1	0.4		2 c	3 s	nw.		0	0	fair	A. Schneider.
Keokuk, Iowa	29.66	753.4	30.36	771.1	18.0	— 7.8	84	e.	12	5.4			10 n			0.02	0.5	light snow	F. Z. Gosewisch.

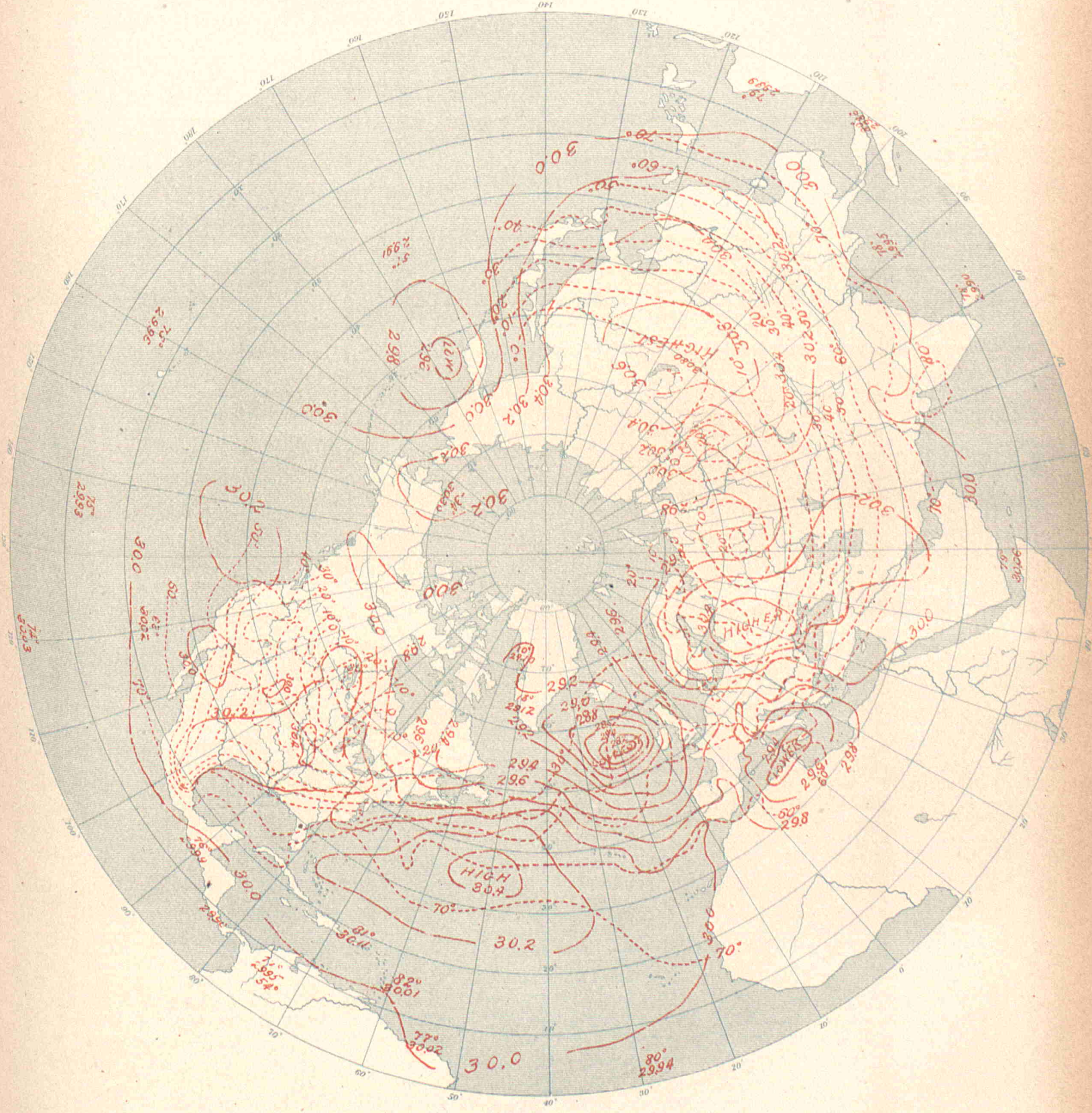
STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.12	765.0	30.14	765.5	69.0	20.6	93	ne.	7	3.1		0	3 k		e.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.44	773.2	30.46	773.7	33	0.6	60	ne.	22	9.8		1 k	0	ne.		0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.29	744.0	30.37	771.4	21.8	— 5.7	90	ne.	2	0.9		2cs; hz	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.58	751.3	30.42	772.7	— 6	—21.1	61	w.	3	1.3		0	0			0	0	clear	S. C. Emery
Leavenworth, Kansas	29.32	744 7	30.28	769.1	26	— 3.3	76	se.	3	1.3			10 s			0.01	0.3	cloudy	A. W. Browns.
Lewiston, Idaho	29.33	745.0	30.20	767.1	28.0	— 2.2	88	ne.	2	0.9			10 n			inap.	inap.	light snow.	W. Bell.
Little Rock, Arkansas	29.99	761.7	30.32	770.1	31	— 0.6	78	ne.	4	1.8		10 s	0	ne.		0	0	cloudy	W. U. Simons.
Los Angeles, California	29.61	752.1	30.01	762.2	45	7.2	83	e.	9	4.0		0	5 c		se.	0	0	fair	T. S. Collins.
Louisville, Kentucky	29.84	757.9	30.43	772.9	19.5	— 6.9	46	ne.	6	2.7		5 cs	4 s	sw.		0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.73	755.1	30.45	773.4	23.2	— 4.9	61	s.	2	0.9		2 cs	5 s	se.		inap.	inap.	fair	Louis Duane.
Mackinaw City, Michigan	29.71	754.6	30.41	772.4	12.0	—11.1	70	nw.	6	2.7		8 k	0	nw.		0	0	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.40	772.1	30.41	772.4	32.0	0.0	88	n.	12	5.4		6 cs	0	w.		0	0	fair	William Daly.
Madison, Wisconsin	29.37	746.0	30.46	773.7	— 5	—20.6	62	calm	0	0		2 cs	0	w.		0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.41	645.4	29.96	761.0	12	—11.1	64	w.	12	5.4			10 s		w.	0.02	0.5	cloudy	F. Burke.
McKavett, Fort, Texas	27.69	703.3	30.08	764.0	42	5.6	60	s.	5	2.2			10 s			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.58	751.3	30.36	771.1	5	—15.0	76	w.	17	7.6		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.98	761.5	30.34	770.6	28	— 2.2	88	n.	4	1.8		0	4 s		nw.	0	0	fair	D. T. Flannery
Milwaukee, Wisconsin	29.67	753.6	30.47	773.9	2	—16.7	72	n.	5	2.2		0	4 s		n.	0	0	fair	W. Line
Missoula, Fort, Montana	26.67	677 4	30.13	765.3	15	— 9.4	73	n.	2	0.9			9 s			0	0	cloudy	I. H. Young.
Mobile, Alabama	30.21	767.3	30.25	768.3	35.5	1.9	83	n.	4	1.8		7ck; cs	0	sw.		0	0	fair	C. A. Read.
Montgomery, Alabama	30.03	762.7	30.27	768.8	30.3	— 0.9	73	ne.	2	0.9		3 cs	0	w.		0	0	clear	J. B. McLaughlin
Moorhead, Minnesota	29.20	741.7	30.31	769.0	— 5	—20.6	100	se.	4	1.8		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.42	747.3	30.18	774.2	15.0	— 9.4	76	sw.	1	0.4		0	0			inap.	inap.	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.27	591.0	29.90	759.4	—13.0	—25.0	85	nw.	90	40.2			fg.		nw.	0.33	8.4	dense fog	S. W. Beall.
Nashville, Tennessee	29.76	755 9	30.37	771.4	24.0	— 4.4	75	ne.	4	1.8		10 ck	0	sw.		0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.25	768.3	30.37	771.4	18	— 7.8	67	w.	4	1.8		0	sk.			0.02	0.5	clear	J. H. Sherman.
New London, Connecticut	30.34	770.6	30.39	771.9	18	— 7.8	67	w.	4	1.8		0	0			0.05	1.3	clear	J. G. Lynch.
New Orleans, Louisiana	30.14	765.5	30.20	767.1	42.5	5.8	64	ne.	5	2.2		6 c	0	sw.		0	0	fair	L. Dunne.
Newport, Rhode Island	30.27	768.8	30.32	770.1	23.0	— 5.0	73	w.	9	4.0		0	0			0.11	2.8	clear	W. McGillivray.
New York, New York	30.24	768.1	30.43	772.9	19	— 7.2	84	calm	0	0		4 cs	0			inap.	inap.	fair	J. B. Merrill.
Norfolk, Virginia	30.44	773.2	30.47	773.9	27	— 2.8	64	ne.	8	3.6		0	0			0.07	1.8	clear	Wm. Davis.
North Platte, Nebraska	27.10	688.3	30.22	767.6	4.6	—15.2	78	w.	6	2.7		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.12	765.0	30.16	766.1	34.0	1.1	78	s.	5	2.2			10 s			0.07	1.8	cloudy	J. Dascomb.
Omaha, Nebraska	29.03	737 3	30.30	769.6	17.0	— 8.3	67	se.	4	1.8		0	0			0	0	clear	A. Pollak.
Ogdaamie, Alaska	30.85	783.6	30.87	784.1	—33.0	—36.1		wnw.	3	1.3		0	0			0	0	clear	P. H. Ray.
Oswego, New York	29.99	761.7	30.34	770.6	24.0	— 4.4	73	w.	16	7.2			10 n			0.16	4.1	light snow	J. G. Linsley.
Palestine, Texas	29.60	751.8	30.18	766.6	39.5	4.2	62	e.	10	4.5			10 ks		s.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.22	767.6	30.25	768.3	39.3	4.1	72	ne.	8	3.6		7 cs	0	sw.		0	0	fair	M. McGauran.
Philadelphia, Pa	30.35	770.9	30.46	773.7	19	— 7.2	53	nw.	8	3.6		3 c	0	sw.		0.06	1.5	clear	T. T. Townsend.
Pike's Peak, Colorado	17.31	439.7	30.01	762.2	—10	—23.3	71	sw.	16	7.2		0	0			0.03	0.8	clear	H. Hall.
Ploche, Nevada	23.79	604.3	29.99	761.7	14.4	— 9.8	78	nw.	8	3.6			10 n			inap.	inap.	light snow	O. N. Kitchel.
Pittsburg, Pennsylvania	29.66	753.4	30.51	774.9	12.0	—11.1	80	nw.	2	0.9			10 s			inap.	inap.	cloudy	W. A. Reid.
Poplar River, Montana	27.77	705.3	30.12	765.0				nw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.17	766.3	30.18	766.6	55.0	12.8	86	e.	9	4.0		7 cs	0			0	0	fair	H. B. Boyer.
Port Huron, Michigan	29.74	755.4	30.47	773.9	3.6	—15.8	87	sw.	7	3.1		8 cs	0			inap.	inap.	cloudy	W. O. Bailey.
Portland, Maine	30.20	767.1	30.25	768.3	20.0	— 6.7	56	nw.	8	3.6		0	hz.			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.13	765.3	30.20	767.1	37.0	2.8	85	s.	2	0.9			10 s		s.	0.04	1.0	cloudy	M. L. Hearne.
Portsmouth, N. C.					35	1.7	79	ne.			4	3 c	4 k		ne.	inap.	inap.	fair	F. S. Coburn.
Prescott, Arizona	24.55	623.6	29.03	760.2	29.8	— 1.2	45	sw.	4	1.8		0	0			0	0	clear	W. H. Clendenon.
Provincetown, Mass.	30.26	768.6	30.29	769.4	23	— 5.0	73	nw.	17	7.6		0	2 s		nw.	0.11	2.8	clear	P. T. Jenkins.
Punta Rassa, Florida	30.16	766.1	30.17	766.3	62.5	16.9	100	e.	4	1.8			fg.			0	0	dense fog	W. J. Evans.
Red Bluff, California	29.80	756.9	30.17	766.3	28	— 2.2	100	n.	3	1.3		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.68	753.9	30.39	771.9	16	— 8.9	83	w.	18	8 0		0	8 k		w.	0	0	cloudy	E. W. McGann
Roseburg, Oregon	29.68	753.9	30.25	768.3	34	1.1	88	se.	1	0.4			10 s			0.06	1.5	threatening	J. J. Nanry.
Sacramento, California	30.07	763.8	30.15	765.8	30.0	— 1.1	88	nw.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.77	756.1	30.41	772.4	19.7	- 6.8	91	e.	10	4.5			10 n			0.08	2.0	light snow	J. H. Weber.
St. Michael, Fort, Alaska	30.11	764.8	30.15	765.8	0	—17.8	100	ne.	32	14.3			10 s			0.02	0.5	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.43	747.5	30.38	771.6	— 6.0	—21.1	82	se.	3	1.3		2 cs	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.36	745.7	30.34	770.6	—26	—33.3	100	s.	1	0.4		0	0			0	0	clear	C. B Dilley.
Salt Lake City, Utah	25.57	649.5	30.14	765.5	12	—11.1	46	calm	0	0		0	0			0.02	0 5	clear	J. Craig.
San Antonio, Texas	29.33	745.0	30.06	763.5	47.0	8.3	93	ne.	3	1.3			10 n			0.02	0.5	light rain	T. J. Kenan.
San Diego, California	29.94	760.5	30.01	762.2	48.3	9.1	85	e.	5	2.2		0	3 s			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.75	755 6	30.47	773 9	10	—12.2	80	w.	7	3.1			10 s			0.01	0.3	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.39	771.9	30.42	772.7	10.0	— 7.2	83	w.	11	4.9		1 k	0	w.		0.08	2.0	clear	B. A. Blundon.
San Francisco, California	30.08	764.0	30.15	765.8	38	3.3	85	nw.	2	0.9		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.00	584.2	30.05	763.3	31	— 0.6	74	s.	3	1.3		2 k	8 s	sw.	sw.	0.04	1.0	cloudy	H. U. Jones.
Savannah, Georgia	30.20	767.1	30.3	769.0	43.5	6.4	70	n.	7	3.1		6 ck	0	s.		0.20	5.0	fair	H. W. Ford.
Shaw, Fort, Montana	26.28	667.5	30.14	765.5	8	—13.3	80	w.	2	0.9		0	8 s			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	30.01	762.2	30.20	768.0	32	0.0	78	ne.	5	2.2		0	9 s		ne.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28 79	731 3	30.12	765.0	35	1.7	72	s.	17	7.6			10 s			0	0	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.15	613.1	30.01	762.2	34.0	1.1	90	nw.	2	0.9		0	8 s			0.29	7.4	cloudy	N. D. Lane.
Sitka, Alaska	29.95	760.7	30.02	762.5	39.6	2.0	80	e.	2	0.9		0	3 s		e.	0.80	20.3	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.75	755.6	30.25	768.3	31.0	— 0.6	88	e.	10	4.5			10 s			0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.32	770.1	30.36	771.1	39	3.9	70	ne.	15	6.7		5 c	0	w.		0.09	2.3	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.05	712.5	30.19	766.8	20.8	— 6.2	81	nw.	3	1.3			10 s			0	0	cloudy	H. Clifford.
Springfield, Illinois	29.70	754.4	30.43	772.9	18	— 7.8	84	se.	8	3.6			10 n			0.05	1.3	light snow	T. B. Jennings.
Springfield, Missouri	29.74	730.0	30.20	768.0	25	— 3.9	88	s.	12	5.4			10 n		s.	0.03	0.8	light snow	J. H. Bryce.
Starkville, Miss.	29.79	756.7	30.29	769.4	24	— 4.4	92	n.	5	2.2		3 c	0			0	0	clear	C. Dill.
Stevenson, Fort, Dakota	28.19	716.0	30.25	768.3	—13	—25.0	50	nw.	3	1.3		0	0			0	0	clear	W. Burrows.
Stockton, Fort, Texas	26.91	683.5	30.05	763.3	42	5.6	83	s.	10	4.5		0	4 s		s.	0	0	fair	A. J. Warren.
Thatcher's Island, Mass.	30.28	769.1	30.34	770.6	21.0	— 6.1	70	nw.	18	8.0		0	0			0	0	clear	G. Liebmann.
Thomas, Camp, Arizona	27.14	689.3	29.97	761.2	43.5	6.4	84	se.			1	0	4 ks			0.05	1.3	fair	J. T. Fitzgerald.
Toledo, Ohio	29.73	755.1	30.47	773 9	12	—11.1	61	sw.	5	2.2			10s; sk			inap.	inap.	dense smoke	A. Buell.
Tucson, Arizona	27.50	698.5	30.00	762.0	39	3.9	73	se.	2	0.9		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.80	756.9	30.19	766.8	29.5	— 1.4	94	se.	1	0.4		0	0			0.07	1.8	clear	J. Daly.
Verde, Fort, Arizona					38.3	3.5	73	nw.			1	0	5 s		w.	0	0	fair	D. Brooks.
Vicksburg, Mississippi	30.00	762.0	30.27	768.8	32.8	0.4	68	calm	0	0			10 s		sw.	0	0	cloudy	James Kenealy.
Visalia, California	29.73	755.1	30.12	765.0	20.0	— 3.3	92	e.	2	0.9		0	0			0	0	clear	O. D. Stewart
Washakie, Fort, Wyoming	24.29	617.0	30.08	764.0	— 0.7	—18.2	86	w.	5	2.2		0	0			0	0	clear	T. M. Ambler.
Washington, D. C.	30.38	771.6	30.50	774.7	13.5	—10.3	82	sw.	4	1.8		3 c	0			0.01	0.3	clear	B. M. Purssell.
West Las Animas, Colorado	26.00	660.4	30.14	765.5	1	—17.2	72	nw.	0	2.7		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.84	757.9	30.47	773.9	13.5	—10.3	71	w.	4	1.8		0	0 ks		w.	inap.	inap.	fair	B. F. Hough.
Wilmington, N. Carolina	30.35	770.9	30.41	772.4	32	0.0	78	ne.	9	4.0		7c; ck	0			0.01	0.3	fair	Samuel A. Haney.
Winnemucca, Nevada	25.58	649.7	30.12	765.0	16	— 8.9	70	ne.	6	2.7		0	8 s			0	0	cloudy	J. Grover.
Yankton, Dakota	28.83	732.3	30.25	768.3	5	—15.0	70	e.	2	0.9		0	0			0	0	clear	J. H. Attield.
Yuma, Arizona	29.70	755.9	29.90	759.4	39.0	3.9	82	calm	0	0		0	0			0	0	clear	W. S. Delano.
sub-series.																			
Bogota, U. S. Columbia	22.00	558.8			54.0	12.2	82	sw.	1	0.4		4 k	0	w.		0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.00	763.5	30.07	763 8	69	20.6	93	calm	0	0		0	1 s		e.	0	0*	fine	Robert Johnston.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	70	24.4	91	se.			2	4 c	3 s	e		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mia	29.40	746.7	29.99	761.0	77	25.0	89	calm			0	2 c	5 ks	calm	n.	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					75	23 9	94	ne.			1		10 k		ne.	0.00	1.5	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.07	763.8	30.13	765 3	37	0.0	78	calm			0		4 k			0	0	fair	W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallace.
York Factory, B. A.	30.02	762.5	30.09	764.3	—18.5	—28.1	60	w.	8	3.6		2 k	2 s	w.	w.	0.01	0.3	fair	Forbes and Wood

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Amethyst, S. 46° 13′ W. 63° 44′ †	30.25	768.3	58.5	14.7	90	nne.			1		6	nnw.						d. clouds.
H. M. S. Audacious, N. 18° 02′, E. 118° 20′	29.89	759.2	75	23.9	81	nne.			6–7		6	nne.				7	nne.	squally.
H. M. S. Boadicea, S. 23° 58′, E. 3° 35′	30.14	765.5				se.			3-5		5					4	sse.	d. clouds.
H. M. S. Champion, Singapore, Malay peninsula	29.88	758.9	80	26.7	91	ne.			2		4	n.				1	ne.	squally.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.38	771.6	38	3.3	90	nnw.			1		0							blue sky
H. M. S. Comus, N. 13° 05′, W. 100° 52′	29.96	761.0	77	25.0	90	e.			2		6					2	ne.	d. clouds.
H. M. S. Constance, N. 0° 58′, W. 29° 22′	29.95	760.7	81	27.2		calm			0							1	ene.	blue sky.
H. M. S. Curacoa, Yokohama, Japan	30.05	763.3	44.5	6.9	60	n.			1		10							overcast.
H. M. Dock-Yard, Bermuda, W. I	30.13	765.3	65	18.3	86	sw.			1		6	sw.						d. clouds.
H. M. S. Dryad, N. 15° 20′, E., 95° 40′	29.97	761.2	80	26.7		nne.			2		2	ne.				2	ne.	d. clouds.
H. M. M. Eclipse, N. 6° 00′ E. 80° 00′	29.78	756.4	79	26.1		nne.			1		8					2	se.	overcast.
H. M. S. Euryalus, Trincomalee, Ceylon	29.91	759 7	80	26.7	78	ne.			3		4	ne.						d. clouds.
H. M. S. Espeigle, S. 33° 51′, E. 151° 14′	30.13	765.3	72	22.2	85	ne.			4		0							blue sky.
H. M. S. Fawn, S. 25° 30′ E. 7° 26′	30.10	764.5	69.5	20.8	90	se.			3		8					3	sse.	d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.18	766.6	49	9.4	81	n.			1		9							showery.
H. M. S. Gannet, S. 36° 40′, W. 73° 03′	30.00	762.0	61	16.1	70	ssw.			2		0							blue sky.
H. M. S. Heroine, S. 11° 25′, W. 31° 45′	29.96	761.0	80	26.7	82	ese.			5		4	ese.				3	ese.	d. clouds.
H. M. S. Himalaya, N. 34° 48′, E. 19° 35′	29.61	752.1	55	12.8	93	se.			3-6		9					4	sse.	showery.
H. M. S. Iron Duke, N. 12° 47′ E. 44° 58′	30.00	762.0	80	26.7	78	se			3-4		1	n.				2	s	blue sky.
H. M. S. Kingfisher, Callao Bay, Peru	30.00	762.0	66	18.9		calm			0		7							misty
H. M. S. Lark. S. 34° 20′, E. 175° 05′	29.97	761.2	69.3	20.7	87	s.			3		1					2	s.	misty.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.14	765.5	43.0	6.1	71	calm			0		0							blue sky.
H. M. S. Monarch Port Said, Egypt	29.80	756.9	69	20.6	65	ssw.			1		4							d. clouds.
H. M. S. Mutine, N. 2° 56′, W. 121° 50′	29.93	760.2	75.5	24.2		se.			3		10					2	se.	overcast.
H. M. S Rocket, Valdivia, Chili	30.10	764.5	60	15.6	?	calm			0		0							blue sky
H. M. S Superb, N. 36° 50′ E. 28° 19′*	29.89	759.2	64	17.8	61	sse			3		6	se.				2	sse.	d. clouds.
H. M. S. Swiftsure, S. 6° 29′, W. 80° 50′	30.00	762.0	66	18.9	94	s.					5					2	s.	d. clouds.
H. M. S. Sylvia, Point Angosto, Patagonia	30.04	763.0	49	9.4	77	var.			2		10							overcast.
H. M. S. Tourmaline, Bombay, India	29.92	760.0				w.			1		1							blue sky.
H. M. S. Tyne, N. 48° 32′, W. 5° 10′	29.40	746.7	49	9.4	77	wsw.			2-3		9					5	wsw.	gloomy.
H. M. S. Woodlark, Bushire, Persia	30.08	764.0	60.5	15.8	76	nw.			5		1	n.				4	nw.	d. clouds.
PORTUGUESE NAVAL.																		
Tamega, Macao, China	30.19	766.7	64.4	18.0	76	nnw.			5		0			0	0			blue sky.
SWEDISH NAVAL.																		
Vanadis, N. 41° 46′, E. 17° 21′	29.67	753.7	56.8	13.8	83	se.			3		10							misty.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla*	30.11	764.8	43	6.1	83	ne.	8	3.6			8		ne.	0	0			fair.
Navy Yard, Portsmouth, N. H*	30.23	767.8	18	— 7.8	?	nw.	7	3.1			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	30.06	763.5	40.5	4.7	73	n.			1		1		sw.	light	light			clear.
Adams, Sitka, Alaska†	30.05	763.3	36	2.2	90	calm			0		10							cloudy.
Alaska, Mare Island, Cal	30.08	764.0	35	1.7	90	e.			1		2			0	0			fair.
Alliance, N. 21° 37′ W. 80° 32′	30.07	763 8	76	24.4	95	ene.			4		5			0	0	sm'h		fair.
Ashuelot, Shanghai, China	30.40	772.1	38	3.3	90	calm			0		5		w.					fair.
Brooklyn, Keel Point, Patagonia*	30.08	764.0	55	12.8	80	ssw.	12	5.4			2		s.	0	0	sm'h		fair.
Colorado, New York, N. Y	30.36	771.1	20	— 6.7	100	sw.	4	1.8			1		calm	0	0			clear.
Enterprise, N. 37° 12′, W. 51° 09′ *	30.15	765.8	63	17.2	83	sw.			6		8		calm			mod.	sw.	cloudy.
Essex, Callao, Peru	29.98	761.5	66	18.9	90	ese.			1		5		se.					fair.
Franklin, Norfolk, Va	30.47	773.9	27	— 2.8	?	ne.	6	2.7			2		calm	0.1	3.	r'gh	ssw.	fair.
Galena, Montevideo, Uruguay*	29.75	755.6	69	20.6	90	ssw.			5		2		sw.			sm'h	s.	fair.
Hartford, S. 16° 00′ W. 77° 17′*	29.94	760.5	72	22.2	90	se.			3		10							cloudy.
Independence, Mare Island, Cal	30.15	765.8	31	— 0.6	?	e.			5		0			0	0			clear.
Iroquois, Callao, Peru	30.00	762.0	67	19.4	90	se.			2		8							fair.
Jamestown, Boston, Mass	30.32	770.1	20	— 6.7	69	wnw			1		0							clear.
Juniata, Gibraltar, Mediterranean*	30.05	763.3	59	15.0	94	sw.			3		10		w.	mod.	mod.			rainy.
Kearsarge, Port of Spain, Trinidad, W. I	30.01	762.2	77	25.0	95	ne.			2		0							clear.
Lackawanna, N. 14° 20′, W. 138° 20 *	29.98	761.5	75	23.9	81	ne.			5		8		ne.			mod.	ne.	cloudy.
Lancaster, Genoa, Italy	29.70	754.4	55	12.8	80	n.			5		5		n.					squally.
Michigan, Erie, Pa	30.40	772.1	23	— 5.0	85	w.			1		2?		e.					cloudy
Minnesota, New York, N. Y	30.42	772.7	19	— 7.2	100	nw.	4	1.8			5		ssw.					hazy.
Monocacy, Nagasaki, Japan	30.20	767.1	49	9.4	100	nne.			1		10		calm					cloudy.
New Hampshire, Newport, R. I	30.33	770.4	24	— 4.4	100	nw.			1		2					sm'h		fair.
Nipsic, Lisbon, Portugal	30.09	764.3	59	15.0	59	nw.			3		5		nw.					fair.
Onward, Callao, Peru*†	30.08	764.0	66	18.9	90	se.			1		10		n.					cloudy.
Palos, Tientsin, China*	30.31	769.9	25	— 3.9	100	nnw.			1		2		nnw.					fair.
Pensacola, N. 5° 40′ W. 80° 15′*	29.83	757.7	79	26.1	78	n.			5		8		n.	0	0	sm'h		cloudy.
Portsmouth, Boston, Mass	30.26	768.6	18	— 7.8	?	nw.			1		2							clear.
Powhatan, Boston, Mass	30 31	769.9	18	— 7.8	84	nw.			1		10?							fair.
Quinnebaug, Genoa, Italy	29.74	755.4	50	10.0	71	nne.			5		2		calm					clear.
Ranger, N. 24° 03′, W. 119° 13′*	30.04	763.0	60	15.6	76	nw.			3		8		calm	0	0	long	nw.	rainy.
Richmond, Hong-Kong, China*	30.09	764.3	63	17.2	83	calm			0		0			0	0			clear.
Saratoga, New York, N. Y	30.43	772.9	19	— 7.2	67	nw.			1-2		2		sw.	0	0			clear.
St. Louis, League Island, Pa	30.46	773.7	15	— 9.4	100	wnw.			1		2			0.11	2.8			clear.
Tennessee, Basse-Terre, St. Kitts, W. I*	30.06	763.5	81	27.2	95	e.	6	2.7			5			light	light			clear.
Vandalia, Samana Bay, San Domingo, W. I*	30.08	764.0	75	23.9	95	nne.			1		5		e.					fair.
Wabash, Boston, Mass	30.32	770.1	19	— 7.2	69	nw.	5	2.2			2		nw.	0	0			clear.
Wachusetts, Mare Island, Cal	30.14	765.5	34	1.1	100	ese.			2		1		calm					clear.
Wyandotte, Washington, D. C	30.06	763.5	34	1.1	79	wnw.			2		5		nw.	0	0			fair.
Yantic, Aspinwall, U. S. C	29.94	760.5	77	25.0	90	nne.			2		5					long	n.	fair.
MERCHANT MARINE.																		
S. S. Grecian, N. 49° 45′, W. 10° 08′*	29.43	747.5	49	9.4	93	s.			3		1		s.	4 h'r	4 h'r	sm'h		clear.
S. S. Nova Scotian, off Cape Race, N. F	29.29	744.0	32	0.0		wsw.			4		10		wnw.			mod.	wsw.	foggy.
S. S. Scandinavian, N. 54° 14′, w. 22° 30′	28.70	729 0	40	4.4		wsw.			9		10		wsw.	sh'rs	sh'rs	high	wsw.	showery.
S. S. British Crown, N. 48° 20′, W. 27° 51′†	29.54	750.3	48	8.9		w.			6		8		w.	hail	hail	h'vy	wsw.	squally.
S. S. British Prince, N. 39° 36′ W. 71° 14′ †	30.26	768.6	32	0.0		nnw.			5		2		nnw.	0	0	mod.	nnw.	clear.
S. S. Indiana, N. 51° 31′, W. 12° 36′			44	6.7	92	sw.			6		10		sw.	rain	rain	r'gh	sw.	squally.
S. S. Lord Clive, N. 41° 40′ W. 63° 00′						wnw			6		8		wnw.	sq'lls	sq'lls	str'g	wsw.	cloudy.
S. S. Lord Gough, off Holyhead, Eng	29.23	742.4				sww.			3		2		sw.	0	0	sm'h		clear.
S. S. Ohio, Philadelphia, Pa			15	— 9.4	82	nw.			4		6?		nw.					clear.?
S. S. Pennsylvania, N. 46° 19, W. 47° 00 †	29.36	745.7	45	7.2	100	sw.			6		10		w.	0	0	r'gh	wnw.	squally.
S. S. Jason, N. 47° 53′, W. 31° 23′			51.8	11.0		wnw.			6		7 ks					7	sw.	fair.
S. S. Stella, N. 48° 21′, W. 42° 20	29.36	745 7	36	2.2		sw.			7		10		sw.	8 h'r	8 h'r	8	w.	squally.
S. S. Bolivia, Glasgow, Scotland	29.18	741.2	46	7.8	84	ssw.			3				ssw.	10 h'r	10 h'r			overcast.
S. S. Dorian, Valencia, Spain*	29.62	752.3				ne.			6		5		ne.	0	0			line.
S. S. Antillas, N. 18° 30′, W. 77° 40′						ne.			2		2?		ne.	sq'lls	sq'lls	mod.	ne.	cloudy.†
S. S. Ambrose, Amazon River, Brazil†	30.08	764.0	81	27.2										7 h'r	7 h'r			cloudy.
S. S. Auckland, S. 49° 13′, W. 49° 27′	29.89	759.2	51	10.6	95	wsw.			2		4							blue sky.
S. S. Caldew, S. 25° 50′, E. 59° 59′	29.98	761.5	79	26.1	86	ene.			5		7							d. clouds.
S. S. City of Agra, S. 43° 35′, W. 41° 32′	29.90	759.4	52.5	11.4	90	nnw.			7		7							d. clouds.
S. S. Gordon Castle, N. 36° 35′, W. 2° 33′	29.87	758.7	60.5	15.8	88	w.			4		4					high		d. clouds.
Inchkeith, N. 18° 53′, E. 86° 46′	30.06	763.5	73	22.8	67	ne.			5		3							d. clouds.
S. S. Scotia, Suez, Canal, Egypt	29.80	756.9	77.1	25.1	54	ssw.			2		3							blue sky.
S. S. Mexico, Guaymas, Mexico†	30.04	763.0	61	16.1	66	e.			1-2		2							
S. S. Bothnia, N. 51° 23′, W. 13° 04′	29.04	737.6	45	7.2	92	w.			5		7		w.	sh's	sh's	r'gh	w.	squally.
S. S. Gallia, N. 46° 28′, W. 39° 13′	29.80	750.9	58	14.4	82	wsw.			6		10			rain	rain	high	w.	showery.
S. S. Marathon, N. 42° 46′ W. 60° 05′	30.03	762.7	34	1.1		w.			6		5		w.	6 h'r	6 h'r	high	w.	squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																		
S. S. Parthia, N. 45° 40′, W. 43° 02′	29.66	753.4	58	14.4	94	sw.	.....	.....	9	.....	8	.....	sw.	8 h'r	8 h'r	cross	sw	raining.
S. S. Rhiwladda, N. 40° 34′ W. 68° 39′	.....	.....	33	0.6	.....	wnw.	.....	.....	4	.....	3	.....	nw.	o	o	mod.	s.	
S. S. Canada, N. 42° 27′, W. 60° 35′	30.00	762.0	30	— 1.1	.....	nw.	.....	.....	5	ck	o	nw.	.....	o	o	h'vy	wnw.	covered.
S. S. France, N. 49° 40′, W. 16° 43′†	29.38	746.2	44.6	7.0	.....	wsw.	.....	.....	8	.....	n	.....	sw.	o	o	h'vy	wsw.	covered.
S. S. Labradore, N. 49° 21′, W. 23° 20′	.....	.....	37.4	3.0	.....	wnw.	.....	.....	7-8	.....	9	.....	w.	rain	rain	.....	w.	
S. S. Perire, N. 44° 52′, W. 44° 25′	29.68	753.8	53.6	12	.....	sw.	.....	.....	8	.....	10	.....	sw.	.....	.....	h'vy	wsw.	hailing.
S. S. Ville de Marseilles, N. 33° 30′, W. 30° 15′*†..	30.35	770.9	65	18.3	.....	nne.	.....	.....	4	.....	5	.....	ne.	o	o	long	nnw.	fair.
S. S. Arizona, N. 50° 49′ W. 30° 15′	29 46	748.3	43	6.1	.....	w.	.....	.....	7	.....	5	.....	wnw.	o	o	high	wnw.	fair.
S. S. Wisconsin, N. 45° 50′ W. 47° 25′	.....	.....	48	8.9	.....	sw.	.....	.....	8	.....	10	.....	wsw.	12 h'r	12 h'r	r'gh	sw.	rainy.
S. S. Bohemia, Hamburg, Germany *†..	29.76	755.9	.....	.....	.....	e.	.....	.....	4	.....	2	.....	.....	o	o	.....	.....	fair.
S. S. Frisia, N. 49° 42′, W. 14° 10′	29.24	742.7	47	8.3	.....	w.	.....	.....	7	.....	6	.....	wsw.	4 h'r	4 h'r	h'vy	wsw.	squally.
S. S. Rugia, N. 43° 08′, W. 57° 26′	29.84	757.9	36	2.2	.....	wnw.	.....	.....	8	.....	8	.....	wnw.	1 h'r	1 h'r	7	wnw.	cloudy.
S. S. Silesia, N. 50° 06′, W. 3° 30′	29.44	747.8	50.0	10.0	.....	sw.	.....	.....	3	.....	3	.....	sw.	o	o	4	sw.	
S. S. Vandalia, Hamburg, Germany	29.83	757.7	27.5	— 2.5	.....	ese.	.....	.....	3	.....	o	.....	.....	.....	.....	.....	.....	fair.
S. S. Archimedes, Rio de Janeiro, Brazil	29.78	756.4	.....	.....	.....	calm	.....	.....	o	.....	8	.....	s.	3 h'r	3 h'r	.....	.....	showery.
S. S. Hevelius, N. 32° 40′, W. 16° 55′†	30.36	771.1	64	17.8	.....	nw.	.....	.....	6	.....	9?	.....	nnw.	o	o	long	nw.	clear?
S. S. Ptolemy, N. 14° 23′ W. 26° 07′	30.03	762.7	72.4	22.4	83	ne.	.....	.....	6	c	6 k	.....	.....	o	o	.....	nw.	d. clouds.
S. S. Sirius, N. 22° 20′. W. 60° 00′*	30.10	764.5	.....	.....	.....	ne.	.....	.....	4	.....	1	.....	ne.	o	o	long	nnw.	clear.
S. S. Bulgarian, N. 43° 55′, W. 53° 27′..*	29.82	757.4	.....	.....	.....	w.	.....	.....	6	.....	10	.....	w.	4 h'r	4 h'r	high	wsw.	
S. S. Colorado, N. 34° 08′, W. 76° 42′ †..	30.35	770.9	45	7.2	.....	ne.	.....	.....	5	.....	2	.....	nne.	5 h'r	5 h'r	high	ne.	
S. S. Rio Grande, N. 25° 52′, W. 76° 44′†....	30.14	765.5	77	25.0	.....	se.	.....	.....	1	.....	.....	.....	s.	o	o	mod.	se.	clear.
S. S. Archimede, Palermo, Sicily†	29.54	750.3	62	16.7	61	wnw.	.....	.....	3	.....	4	.....	w.	o	o	.....	.....	fair.
S. S. Hermod, N. 42° 09′, W. 59° 10′†	29.92	760.0	43	6.1	.....	w.	.....	.....	7	.....	8	.....	wnw.	snow	snow	high	w.	threatening.
S. S. Alleghany, Fire Island, N. Y †	30.48	774.2	25	— 3.9	.....	nnw.	.....	.....	4	.....	o	.....	.....	o	o	.....	.....	clear.
S. S. Brooklyn, N. 45° 54′, W. 46° 51′ *	29.37	746.0	35	1.7	.....	wsw.	.....	.....	7	.....	.....	.....	wsw.	o	o	h'vy	w.	cloudy
S. S. Dominion, N. 45° 23. W. 58° 06′*†	29.76	755.9	32	0.0	.....	nw.	.....	.....	5	.....	8	.....	wnw.	14 h'r	14 h'r	r'gh	w.	cloudy.
S. S. Chalmette, N. 32° 35′ W. 77° 40′ †....	30.25	768.3	60	15.6	.....	ne.	.....	.....	6	.....	6	.....	ne.	o	o	mod.	ne.	cloudy.
S. S. Lone Star, N. 24° 25′, W. 82° 15′ †....	30.19	766.8	71	21.7	.....	ne.	.....	.....	1	.....	o	.....	.....	o	o	sm'h	.....	clear.
S. S. Denmark, N. 42° 02′, W. 49° 41′ †	29.82	757.4	55	12.8	.....	sw.	.....	.....	8	.....	10	.....	ssw.	shr's	shr's	h'vy	ssw.	squally.
S. S. Erin, Liverpool, Eng	.....	.....	39	3.9	.....	nw.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	misty.
S. S. Greece, N. 42° 52′, W. 58° 52′	29.86	758.4	34	1.1	.....	w.	.....	.....	7	.....	8	.....	w.	7 h'r	7 h'r	h'vy	wnw.	dull.
S. S. Helvetia, N. 50° 29′, W. 23° 00′	29.24	742.7	42	5.6	.....	nw.	.....	.....	9	.....	5	.....	nw.	9 h'r	9 h'r	long	nw.	snowing.
S. S. Holland, N. 48° 59′, W. 19° 43′	29.22	742.2	45	7.2	.....	wnw.	.....	.....	9	.....	5	.....	wnw.	hail	hail	h'vy	wnw.	threatening.
S. S. The Queen, N. 40° 48′ W. 62° 40′	30.10	764.5	38	3.3	.....	nw.	.....	.....	6	.....	10?	.....	calm	2 h'r	2 h'r	r'gh	nnw.	clear?
S. S. Santiago, Cienfuegos, Cuba, W. I	.....	.....	73	22.8	95	calm	.....	.....	o	.....	o	.....	.....	o	o	sm'h	.....	fine.
S. S. City of Alexandria, N. 31° 37′, W. 78° 22′†	30.21	767.3	69	20.6	90	ene.	.....	.....	3	.....	3	.....	ne.	o	o	mod.	ne.	clear.
S. S. City of Merida, N. 18° 38′, W. 92° 45′	.....	.....	77.0	25.0	.....	e.	.....	.....	5	.....	10	.....	e.	1 h'r	1 h'r	light	n.	cloudy.
S. S. City of Washington, N. 19° 52′ W. 90° 50′ †	30.13	765.3	79	26.1	.....	calm	.....	.....	o	.....	2	.....	e.	1 h'r	1 h'r	sm'h	.....	fine.
S. S. Alpin, N. 27° 17′, W. 86° 40′	30.13	765.3	72	22.2	.....	se.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	nw.	fair.
S. S. America, N. 49° 51′, W. 16° 39′*	29.17	740.9	52.0	11.1	93	w.	.....	.....	7	.....	6	.....	w	1 h'r	1 h'r	h'vy	wsw.	squally.
S. S. Braunschweig, Buenos Ayres, Argentine Rep	29.75	755.6	71.0	21.7	80	sw.	.....	.....	5	.....	2	.....	sw.	4 h'r	4 h'r	light	sw.	clear.
S. S. Donau, N. 41° 00′ W. 63° 46′	30.20	767.1	.....	.....	.....	wnw.	.....	.....	5-6	.....	10	.....	wnw.	12 h'r	12 h'r	cross	wnw.	cloudy.
S. S. Hohenstaufen, S. 23° 00′ W. 40° 35′	29.81	757.2	77.0	25.0	.....	nne.	.....	.....	5-6	.....	5	.....	n.	12 h'r	12 h'r	mod.	nne.	fair.
S. S. Main, N. 48° 15′, W. 28° 47′	29.62	752.3	48	8.9	.....	w.	.....	.....	8	.....	6	.....	w.	rain	rain	long	wnw.	squally.
S. S. Oder, N. 49° 35′ W. 13° 57′	29.27	743.4	48.2	9.0	.....	ssw.	.....	.....	6	.....	8	.....	ssw.	hail	hail	high	wsw.	squally.
S. S. Saller, N. 52° 08′ E. 3° 04′	29.40	740.7	45	7.2	.....	s.	.....	.....	5	.....	10	.....	s.	1 h'r	1 h'r	r'gh	s.	light rain.
S. S. Strassburg, N. 12° 25′ W. 26° 49′	30.02	762.5	78.0	25.6	86	ne.	.....	.....	3	.....	8	.....	ne.	o	o	mod.	ne.	cloudy.
S. S. Belgic, N. 34° 31′, E. 163° 24′*†	29.72	754.9	53	11.7	73	wnw.	.....	.....	5	.....	5?	.....	wnw.	1 h'r	1 h'r	r'gh	w.	cloudy.?
S. S. Coptic, N. 39° 42′ E. 152° 40′	30.11	764.8	33.5	0.8	80	wnw.	.....	.....	6	.....	5	.....	nw.	rain	rain	rg'h	nw.	hailing.
S. S. Oceanic, N. 37° 54′, W. 122° 40′ *	30.08	764.0	48	8.9	78	nw.	.....	.....	3	.....	7	.....	n.	.....	.....	sm'h	wnw.	fine.
S. S. City of Augusta, N. 33° 57′, W. 75° 56′†	30.37	771.4	.....	.....	.....	nnw.	.....	.....	6	.....	8?	.....	n.	rain	rain	.....	.....	clear.?
S. S. Willamette, Seattle, Wash. Ter†	30.17	766.3	36	2.2	90	s.	.....	.....	3	.....	10	.....	s.	snow	snow	.....	.....	rain & snow
S. S. Oregon, N. 43° 47′, W. 124° 26′†	30.25	768.3	42	5.6	91	calm	.....	.....	o	.....	o	.....	.....	.....	.....	light	w.	clear.
S. S. Ancon, San Francisco, Cal†	30.05	763.3	36	2.2	90	nnw.	.....	.....	3	.....	o	.....	.....	.....	.....	.....	.....	clear.
S. S. City of Chester, San Francisco, Cal*†	30.11	764.8	38	3.3	81	nw.	.....	.....	1	.....	o	.....	.....	.....	.....	.....	.....	clear.
S. S. Dakota, Victoria, B.C*†	30.06	763 5	36	2.2	90	ne.	.....	.....	2	.....	8	.....	sse.	e	o	sm'h	.....	cloudy.
S. S. G. W. Elder, San Francisco, Cal†	30.16	766.1	34	1.1	?	nw.	.....	.....	1	.....	o	.....	.....	o	o	.....	.....	clear.
S. S. Orizaba, N. 34° 26′, W. 120° 26′*†	30.00	762.0	54	12.2	55	ntone.	.....	.....	8	.....	o	.....	.....	o	o	r'gh	nw.	clear.
S. S. Queen of the Pacific, Portland, Oregon†...	30.19	766.8	.....	.....	.....	se.	.....	.....	1	.....	8	.....	.....	.....	.....	.....	.....	overcast.
S. S. State of California, N. 44° 35′, W. 124° 10′†	30.24	768.1	42	5.6	100	nnw.	.....	.....	3	.....	5	.....	n.	.....	.....	sm'h	nw.	showery.
S. S. Victoria, San Francisco, Cal*†	30.18	766.6	36	2.2	.....	nnw.	.....	.....	2	.....	2	.....	nne.	.....	.....	.....	.....	fair.
S. S. City of New York, N. 19° 36′, W. 158° 27′ †..	29.95	760.7	76	24.4	68	nnw.	.....	.....	2	.....	2	.....	nw.	o	o	h'vy	nw.	clear.
S. S. City of Pekin, N. 31° 02′ W. 144° 51′†	29.92	760.0	63	17.2	72	sw.	.....	.....	6	.....	10	.....	sw.	.....	.....	mod.	sw.	cloudy.
S. S. City of Sydney, Sydney, N. S. W †	30.23	767.8	78	25.6	65	sw.	.....	.....	3	.....	2	.....	sw.	o	o	sm'h	.....	fair.
S. S. City of Tokei, N. 22° 16′, E 114° 10′†	30.20	767.1	62	16.7	88	calm	.....	.....	o	.....	5?	.....	ne.	o	o	sm'h	.....	clear.
S. S. Colima, N. 22° 55′, W. 107° 34′†	30.03	762.7	68	20.0	90	wsw.	.....	.....	5	.....	4?	.....	sw.	o	o	mod.	sw.	clear.
S. S. Colon, N. 23° 20′, W. 73° 52′ †..	30.16	766.1	78	25.6	.....	sse.	.....	.....	4	.....	.....	.....	ese.	o	o	small	se.	clear.
S. S. Grenada, Acajutla, San Salvador, C.A†	29.92	760.0	75	23.9	90	calm	.....	.....	o	.....	o	.....	.....	o	o	sm'h	ssw.	clear.
S. S. San José, N. 10° 18′, W. 86° 38′*†	29.92	760.0	.....	.....	.....	nne.	.....	.....	2	.....	5 k	.....	nne.	o	o	mod.	wsw	
S. S. Zealandia, Sydney, N. S. W*	30.06	763.5	80	26.7	91	e.	.....	.....	4	.....	1	.....	s.	.....	.....	.....	.....	fine.
S. S. Muriel, Trinidad, W. I*	30.05	763.3	82	27.8	.....	e.	.....	.....	2	.....	o	.....	.....	o	o	sm'h	.....	fair.
S. S. Caracas, La Guayra, Venezuela, S.A. †	30.03	762.7	77	25.0	86	calm	.....	.....	o	.....	2	.....	ene.	o	o	mod.	nne.	fine.
S. S. Claudius, N. 18° 15′, W. 74° 35′ †	30.15	765.8	84.3	29.1	98	se.	.....	.....	1	.....	.....	.....	.....	o	o	short	se.	fair.
S. S. Belgenland, N. 49° 39′, W. 7° 48′†	29.39	746.5	50	10.0	79	wsw.	.....	.....	6	.....	2	.....	.....	6 h'r	6 h'r	h'vy	wsw.	fine.
S. S. Nederland, N. 41° 50′, W. 62° 56′	.....	.....	43	6.1	71	wnw.	.....	.....	6	.....	10	.....	w.	4 h'r	4 h'r	long	nw.	cloudy.
S. S. Pennland, N. 45° 58′, W. 49° 07′	29.46	748 3	41	5.0	91	wsw.	.....	.....	7	.....	10	.....	wsw.	6 h'r	6 h'r	high	sw.	
S. S. Rhynland, Jersey City, N. J †	30.40	772.1	25	— 3.9	65	wnw.	.....	.....	2	.....	1	.....	wsw.	o	o	.....	.....	fine.
S. S. Waesland, N. 50° 00′ W. 18° 49′	.....	.....	44	6.7	.....	w.	.....	.....	7	.....	9	.....	w.	rain	rain	h'vy	w.	threatening.
S. S. Leeardam, N. 49° 54′, W. 5° 34′*	29.39	746.5	50.6	10.3	82	wsw.	.....	.....	5	.....	4	.....	w.	o	o	long	w.	fair.
S. S. Maas, N. 49° 09′, W. 10° 01′	29.38	746.2	55	12.8	.....	w.	.....	.....	4	.....	8	.....	e.	o	o	5-7	w.	fair.
S. S. Schiedam, N. 42° 18′, W. 60° 07′	29.96	761.0	47.1	8.4	87	nw.	.....	.....	6	.....	7	.....	nw.	4 h'r	4 h'r	h'vy	wnw.	cloudy.
S. S. W. A. Scholten, New York, N. Y	.....	.....	27.0	— 2.8	77	s.	.....	.....	2	.....	o	.....	.....	o	o	.....	.....	
S. S. State of Florida, N. 43° 52′, W. 54° 16′	29.57	751.1	39	3.9	.....	wsw.	.....	.....	6	.....	7	.....	w.	6 h'r	6 h'r	h'vy	wsw.	cloudy.
S. S. State of Indiana, N. 55° 33′, W. 12° 02′†	28.34	719.8	41	5.0	.....	sw.	.....	.....	8	.....	5	.....	sw.	6 h'r	6 h'r	r'gh	wsw.	squally.
S. S. Plantyn, N. 47° 16′, W. 22° 26′	.....	.....	50	10.0	.....	w.	.....	.....	6	.....	9	.....	w.	sleet	sleet	h'vy	w.	cloudy.
S. S. Adriatic, N. 47° 39′, W. 25° 40′	29.51	749.5	.....	.....	.....	.....	.....	.....	7	.....	6	.....	wnw.	8½ h'r	8½ h'r	high	wnw.	
S. S. Lepanto, N. 42° 45′, W. 48° 06′ †....	29.83	757.7	49	9.4	.....	sw.	.....	.....	6	.....	6	.....	sw.	o	o	mod.	wsw.	cloudy.
S. S. Marengo, N. 44° 48′, W. 41° 05′ *	29.96	761.0	52	11.1	.....	wsw.	.....	.....	9	.....	9	.....	sw.	rain	rain	h'vy	w.	squally.
S. S. Otranto, N. 51° 10′, W. 180 30′	.....	.....	.....	.....	.....	w.	.....	.....	8	.....	10	.....	w.	10 h'r	10 h'r	high	w.	squally.
S. S. Romano, N. 42° 16′, W. 63° 04′*†	.....	.....	40	4.4	.....	w.	.....	.....	8	.....	8	.....	W.	.....	.....	cross	w.	cloudy.
S. S. Salerno, New York, N. Y	30.03	762.7	32	0.0	.....	w.	.....	.....	7	.....	7	.....	w.	4 h'r	4 h'r	r'gh	sw.	fair.
S. S. Catherine Whiting, Delaware Bay †	30.45	773.4	20	—6.7	.....	calm	.....	.....	o	.....	5	.....	var.	o	o	.....	.....	fair
S. S. Norman, N. 39° 59′, W. 75° 08′†	30.43	772.9	.....	.....	.....	nw.	.....	.....	1	.....	o	.....	.....	o	o	.....	.....	
S. S. Saxon, Boston, Mass †	30.61	777.5	.....	.....	.....	nw.	.....	.....	1	.....	.....	.....	w.	o	o	.....	.....	cloudy
	30.24	768.1	23	—5.0	.....	wnw.	.....	.....	2	.....	3	.....	.....	o	o	.....	.....	
MISCELLANEOUS.																		
Bg. Abbie Clifford, Havana, Cuba, W. I†	30.14	765.5	66	18.9	.....	.....	.....	.....	.....	.....	fg.	.....	.....	o	o	.....	.....	foggy.
Schr. Abbie H. Gheen, Spring Wood Mills, S. O†	30.39	771.9	56	13.3	.....	calm	.....	.....	o	.....	.....	.....	.....	o	o	.....	.....	clear.
Bk. Adelaide, S. 16° 34′, W. 36° 07′*†	30.00	762.0	85	29.4	.....	ne.	.....	.....	6	.....	.....	.....	ene.	o	o	r'gh	ne.	clear.
Bk. Alpha, Demerara, Brit. Guiana*†	29.95	760.7	82	27.8	.....	ene.	.....	.....	4	.....	5?	.....	.....	4 h'r	4 h'r	.....	.....	cloudy.?
Schr. Annie A. Holton, N. 32° 27′, W., 97° 03′†	30.05	763.3	72	22.2	.....	w.	.....	.....	2	.....	10	.....	w.	o	o	mod.	n.	cloudy.
Bk. Anna Thormann, S. 21° 45′ W. 1° 28′	30.14	765.5	73.0	22.8	74	se.	.....	.....	5	8 ck	o	se.	.....	inap.	inap.	mod.	se.	cloudy.
S. S. Antonio Lopez, Barcelona, Spain	29.67	753.6	54.	12.2	67	w.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	drizzling
Bk. Aquidneck, N. 36° 31′, W. 73° 00′	.....	.....	60	15.6	.....	var.	.....	.....	.....	.....	.....	.....	nw.	o	o	h'vy	nw.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec.	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Bgt. Arthur, S. 17° 38′, W. 31° 10′*†	30.10	764.5				ene.			4		5		e.	0	0	mod	e.	
Schr. Annie R. Lewis, N. 32° 32′. W. 73° 17′ *†	30.32	770.1	63	17.2		nne.			1		8		ne.	3 h'r	3 h'r	mod.	var.	fair.
Bk. B. F. Watson, Hong Kong, China†	30.14	765.5	68	20.0		ne.			3		2?		ne.	0	0			overcast.?
Bg. Belle of the Bay, Galveston, Texas†	30.13	765.3				ene.			3		0?			24 h'r	24 h'r			drizzling?
S. Benledi, N. 30° 30′, W. 65° —′*	30.23	767.8	70	21.1	90	ssw.			1–2		7		w.	3 h'r	3 h'r	sm'h		cloudy.
Bkt. Bonny Doon, N. 33° 24′, W. 12° 40′*†	30.10	764.5				n.			5		2		n.	0	0	long	nw.	
Bk. Bremen, N. 35° 44′, W. 17° 30′ *	30.25	768.3				nw.			5		4		nw.	rain	rain	long	var.	fair.
S. S. Burswell, N 51° 59′, W. 6° 32′.*†	29.25	742.9	55	12.8		ssw.			3		2		sw.	1 h'r	1 h'r	mod.	sw.	clear.
Bk. Champion, Philadelphia, Pa			40	4.4		nnw.			4		1		ne.	0	0			fair.
Bk. Commerce, N. 35° 43′, W. 24° 50′ †	30.24	768.1	62	16.7		nnw.			4		8		nnw.	0	0	h'vy	wnw.	fine.
S. S. D. J. Foley, N. 20° 38′, W. 73° 16′ *†	30.07	763.8	80	26.7	82	e.			4		3		ese.	0	0	mod.	ne.	clear.
S. E. B. Sutton, N. 39° 44′, W. 60° 30′ †	30.11	764.8	50	10.0	86	wnw.			6		6			0	0	r'gh	var.	cloudy.
Bk. E. D. Bigelow, N. 43° 00′, W. 20° 36′*†	29.85	758.2				wsw.			8		2		wsw.	0	0	cross	w.	misty.
Schr. Edith R. Seward, Wilmington, N. C†	30.34	770.6	31	— 0.6		n.			1		3		w.	0	0			
Bk. Edmund Phinney, S. 12° 42′, W. 34° 33′†	30.00	762.0	84	28.9		ese.			5		4			0	0	r'gh	ese.	fair.
S. E. J. Spicer, N. 52° 54′, W 5° 38′	29.26	743.2	50	10.0	86	wsw.			7		10			20 h'r	20 h'r	mod	s.	raining.
Bk. E. L. Pettingill, S. 41° 50′, W. 113° 00′*†	30.30	769.6	64	17.8		e.			3		2		e.	12 h'r	12 h'r	long	sw.	clear.
Bk. Essex, Majambo, Madagascar*†	29.74	755.4	80	26.7		wnw.			6					rain	rain		nw.	threatening.
Schr. F. E. McDonald, Jacksonville, Fla†	30.15	765.8	60	15.6		calm			0		5			0	0			fine.
U. S. F. C. S. S. Fish Hawk, Washington, D. C			21	—6.1		calm			0		1		calm					clear.
S. S. Foscolia, Dunkirk, France						ssw.			3		10			9 h'r	9 h'r			dull.
Bk. Freya, Matanzas, Cuba, W. I						ene.			1		0			0	0			hazy.
Bg. George, Coamo, Porto Rico, W I*†	30.18	766.6				ne.			1		2			0	0	sm'h		fair.
S. Geo. Stetson, S. 4° —′ W 33° —′ *†	30.04	763.0	80	26.7	87	se.			4		2		se.	0	0	sm'h	s.	clear.
Bg. Gipsey Queen, N 32° 15′, W. 67° 37′			70	21.1		n.			4		2		ne.	0	0	sm'h		fair.
Bk. Gronsvaer, Auckland, N. Z	29.95	760.8	68.6	20.3		w.			4		2		w.	0	0			clear.
Bk. Hattie G. McFarland, Demerara, Brit. Guiana*†	30.09	764.3	79	26.1		ese.			4		10		ese.	6 h'r	6 h'r			showery.
Schr. Hattie Weston, N. 17° 40′, W. 66° 16′ *†	30.18	766.6	78	25.6		ene.			3		8		ene.	2 h'r	2 h'r	mod.	ene.	raining.
S. Hedwig, N. 49° 05′, W. 14° 36′			45.7	7.6		wsw			6–8		8		var.	8 h'r	8 h'r	7	w.	squally.
Bk. Heinrich & Tonio, N. 39° 09′, W. 17° 00′			57	13.9		w.			6		3		w.	5 h'r	5 h'r	mod.	w.	fair.
Schr. Isabel Alberto, Jersey City, N.J. †	30.42	772.7				nw.			4		0			rain	rain			clear.
Schr. James Slater, N. 33° 50′, W. 61° 20′ *†	30.13	765.3	64	17.8		wsw.			3		10		sw.	0	0	rg'h	w.	squally.
Bk. Johanne, N. 29° 10′, W. 21° 08′ *†	30.20	767.1	66	18.9		nne.			2		8		e.	3 h'r	3 h'r	mod.	ne.	fine.
Schr. John L. Thomas, N. 18° 40′, W. 63° 25′*†	30.16	766.1				ene.			4		1		e.	½ h'r	½ h'r	mod.	ne.	clear.
Bkt. Josephine, S. 22° 32′, W. 28° 22′†	30.11	764.8	82	27.8	71	e.			5		2		e.	½ h'r	½ h'r	mod.	e.	fair.
S. S. J. W. Wilson, Off Sabine Bar, La *†	30.07	763.8	50	10.0		ene.			5		2		se.	0	0	r'gh	ene.	threatening.
Light House Tender, Laurel, Tampa Bay, Fla†	30.16	766.1	63	17.2		ese.			1		10			0	0			foggy.
Bk. Louise Adelaide, N. 20° 20′, W. 94° 10′ *†						se.			1		8		e.	0	0	short	nw.	fine.
Bg. L. & W. Armstrong, N. 39° 05′ W. 69° 19′*†	30.32	770.1				nw.			4		6		nnw.	0	0	mod.	nw.	clearing.
S. S. Malabar, Gibraltar, Mediterranean						wnw.			4				nw.	0	0	sm'h		cloudy.
Bk. Nary A. Troop, N. 39° 45′, W. 63° 45′ *†	30.04	763.0				wnw			6		5		wnw	6 h'r	6 h'r	cross	wsw.	fair.
Schr. Minnie A. Bonsall, Mayport, Fla†	30.24	768.1	66	18.9		n.			1				nne.					cloudy.
S. M. P. Grace. S. 30° 51′, W. 23° 13′ *	30.15	765.8	75	23.9		n.			3		5		n.	0	0	long	sw.	fair.
Bg. Myrtle, N. 20° 24′, W. 57° 49′*†	30.00	762.0				ene.			3		1		e.	0	0	long	ne.	fair.
Bkt. Norena, Off Stirrup Cays, W. I *†	30.26	768.6				se.			2		1		se.	0	0	sm'h		clear.
Bg. O. C. Clary, N. 20° 35′, E. 73° 40′ *†	30.00	762.0	78	25.6	91	ene.			3		1		ene.					
Schr. Ocean Traveler, N. 36° 30′, W. 67° 50′ †	30.19	766.8				nnw.			4		8					cross		cloudy.
Bk. Ottawa, Alicante Harbor, Spain*	29.77	756.1	58	14.4		wsw.			2		3?		w.	0	0			cloudy.?
S Paramita, San Francisco, Cal	30.15	765.8	37	2.8		calm			0					0	0			clear.
Schr. Pearl Nelson, N. 22° 15′, W. 62° 30′*†	30.15	765.8				ene.			6		3			rain	rain			clear.
S. S. Peconic, N. 38° 43′, W. 67° 09′ *†	30.16	766.1	40	4.4		nnw.			5		8		nnw.	3 h'r	3 h'r	mod.	var.	cloudy.
S. S. Raleigh, Santiago, Cuba, W. I *†	30.04	763.0	75	23.9		nne.			1		0			0	0	sm'h		fine.
Bk. Reindeer, N. 17° 40′, W. 60° 01′*	30.05	763 3				ene.			6		5		ene.	light	light	mod.	ese.	squally.
S. Rudolph, N. 43° 27′. W 14° 08′			58.0	14.4		wnw.			8		5		wnw.	6 h'r	6 h'r	high	wnw.	raining.
Schr. S. B. Hubbard, Jacksonville, Fla	30.25	768.3	46	7.8		calm			0		2		ese.	2 h'r	2 h'r			fair.
Bk. Scud, N. 19° 21′, W. 55° 14′*†	30.14	765.5	80	26.7		e.			6		2		e.	0	0	h'vy	nnw.	fine.
Bk. Southern Belle, N. 23° 50′. W. 36° 05′ *†	30.12	765.0	74	23.3		ene.			6		5		e.	sh'rs	sh'rs	r'gh	ene.	squally.
S. Sovereign of the Seas, S. 1° 04′. W. 114° 57′*†	30.00	762.0	72	22.2	90	ese.			2		0			0	0	sm'h	se.	clear.
Bk. Sunbeam, N. 38° 45′, W. 9° 20′*†	30.10	764.5	60	15.6	76	wnw.			6		5		nw.	4 h'r	4 h'r			fair.
S. S. Sunbeam, N. 39° 40′, W. 59° 37′	29.99	761.7	52.5	11.4	90	nnw.			6		9		nw.	6 h'r	6 h'r	8	var.	squally.
S. Titan, N. 25° 19′, W. 39° 07′*†	30.25	768.3	73	22.8	90	ese.			5		3		e.	0	0	cross	var.	fair.
Bk. Wandering Jew, Montevideo, Uruguay †	29.80	756.9	71	21.7		sw			7		4		sw.	4 h'r	4 h'r			clear.
Bk. Winifred, N. 33° 50′, W. 62° 00′	30.20	767.1				var.							nne.	0	0		nne.	cloudy.
Schr. Wm. Wiler, N. 30° 00′, W. 70° 00′†	30.26	768.6				n.			1		0			0	0	mod	ese.	fine.
Bk. Xenia, N. 26° 51′, W. 38° 37′*†	30.33	770.4	72	22.2		e.			6		2		e.	0	0	long	nw.	clear.

International Chart I. January 14, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B.Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 16. 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.10	764.5	66.6	19.2	79	n.			6		0			0	0	clear	Malaterre.
Algiers			29.91	759.7	59.4	15.2	60	w.			7		8			0.768	19.5	cloudy	Thève.
La Calle			29.76	756.0	58.6	14.8	62	w.			4		5			0.401	11.7	cloudy	Fonfréde.
Tunis			29.72	754.9															Jacques.
Saida			30.07	763.8	53.2	11.8	78	nw.			3		7			0	0	very cloudy	Pérès.
Tebessa			29.85	758.3	50.7	10.4	72	w.			3		3			0.276	7.0	pretty fair	Dognon.
Geriville					46.0	7.8	67	wnw.			5		3			0	0	pretty fair	Lonchamp.
Laghouat			30.07	763.7	48.2	9.0	87	w.			6		4			0	0	cloudy	Abraham.
Biskra			29.95	760.6	62.2	16.8	41	nw.			6		5			0.008	0.2	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.97	761.2	30.06	763.5	61.5	16.4	90	s.	20	8.9			10			0.02	0.5	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.32	744.6	29.90	759.4	31.5	— 0.3	96	ne.			1		10			0.071	1.8		Prof. Ivan Stezir.
Orncow, I. R Observatory	29.17	741.0	29.98	761.0	27.1	— 2.7	94	ne.	6.3	2.8			9			0.035	0.9		Dr. Wierzbiski.
Eperies	29.08	738.5	29.98	761.6	37.4	3.0	88	calm			0		10 8			0.020	0.5		Julius Mikolik.
Gratz	28.66	726.4	29.89	759.3	32.9	0.5	87	w.			1		10			0	0		Andreas Rospini.
Hermannstadt	28.52	724.3	30.00	761.9	36.7	2.6	57	ese.			1		4			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.40	721.4	29.79	756.7	32.9	0.5	90	calm			0		10			0.083	2.1	gloomy	The Staff.
Lemberg	29.10	739.2	30.17	766.3	21.0	— 6.1	69	se.			3		10			0	0		Dr. T. Stanecki.
Neu Schmecks	26.50	673.2	29.99	761.8	32.2	0.1		calm			0		10			0.177	4.5		Dr. V. von Szontagh.
Pola	29.55	750.6	29.66	753.4	50.7	10.4	65	ene.			2		10			0	0		I. R. Hydrographic Office.
Szathmar	29.48	748 7	29.94	760.5	43.2	6.2	31	se.			2					0	0		Joseph Midlinszay, S. J.
Szegedin	29.07	753.7	29.97	761.1	35.6	2.0	64	s.			2		6			0	0		Karl Stancel.
Trieste	29.01	752 1	29.71	754.6	44.6	7.0	55	ne.			3		10			0	0		Royal Academy.
Vienna	29.17	741.0	29.92	760.0	31.5	— 0.3	78	sse.			3		10			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.49	749.0	29.59	751.6	40.4	4.7	81	s.	14	6.3			3			0.010	0.3	misty	W. Boswell
Armagh, Observatory	29.40	746.7	29.64	752.8	40.8	4.9	85	ssw.	17	7.6			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.74	755.4	44.2	6.8	71	ssw.	10	4.5			2					blue sky	John Hartnup.
Bolton, Sharples	29.22	742.2	29.76	755.9	34.1	1.2	95	ssw.					0					misty	Thomas Mackereth.
Bradford, Yorkshire	29.35	745.5	29.74	755 4	41.5	5.3	77	s.			1		4			0	0	d. clouds	McLandsborough&Preston
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	80.0	26.7	66	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington					42.0	5.6	91	nw.			0.4		8					overcast	John McLaren.
Chatham, School M. E.	29.65	753.1	29.78	756.4	40.1	4.5	92	calm			0		10			blank	blank	misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.66	753.4	29.89	759.2	47.5	8.6	74	wsw.			2		5					d. clouds	The Staff.
Fort Napier, Natal	27.54	699.5	29.76	755.9	73.0	22.8	75	e.			1		10					overcast	Corpl. F. Milner, A. H. C.
Galway	29.55	750 6	29.59	751.6	47	8.3	77	sw.			5		9			0.20	5.1	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.16	766.1	30.22	767.6	58.5	14.7	90						0					blue sky	Sgt. J. Norris, A. H. C.
Glasgow, Observatory	29.40	746.7	29.61	752.1	43.9	6.6	79	sw.			2		9 k					gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.03	752.6	29.80	756.9	41.1	5.1	90	nw.			1		10					overcast	The Staff.
Guernsey	29.59	751.6	29.89	759.2	47.0	8.3	85	wnw.			1		9					showery	A. Collenette, F. M. S
Kew, Observatory	29.78	750.4	29.81	757.2	42.3	5.7	81	w.	8	3.6			7					d. clouds	The Staff.
Leicester, Museum	29.53	750 0	29.79	756.7	40.8	4.9	92	w.			1		0					blue sky	J. C. Smith.
Malta, Mediterranean	29.61	752 1	29.67	753.6	60.4	15.8	68	nw.			2		9			0.25	6.3	overcast	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.16	766.1	30.21	767.3	73.0	22.8	81	ne.			2		5					d. clouds	C. S. Duncombe
Oscott, St. Mary's College	29.24	742.7	29.77	756.1	40.4	4.7	87	sw.			2		2					misty	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.58	751.3	29.81	757.2	42.3	5.7	83	wsw.			1		0					misty	The Staff.
Plymouth	29.58	750.4	29.85	758.2	37.1	2.8	97	calm			0		0					foggy	John Merrifield.
Sandwick Manse, Orkneys	29.33	745.0	29.43	747.5	41.8	5.4	83						0					blue sky	Rev. C. Clouston, L. L. D.
Scutari Cemetery, Turkey	29.70	755.9	29.82	757.4	44.6	7.0	88	ne.			2		2					raining	W. H. Lyne.
Sheffield	29.57	751.1	29.86	758.4	44.1	6.7	76	sw.			1		10					blue sky	W. F. Cooper.
Silloth Rectory	29.64	752.8	29.67	753.6	45.5	7.5	80	sw.			1		0			0.01	0.3	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.70	755.9	39.0	3.9	71	sw.	0	0	2		2			0.050	1.3	misty	Rev. S. J. Perry.
Stratfield Turgiss	29.56	750.8	29.78	759.4	42.3	5.7	90	sw.			1		8					d. clouds	Rev. C. H. Griffiths F. M. S.
Truro, Royal Institution	29.90	759.4	29.94	760.5	50	10.0	64	w.			1		3					d. clouds	W. Newcombe.
Valencia, Observatory	29.69	754.1	29.71	754 6	47.6	8.7	81	ssw.	30	13.4	2		4					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B					2	—16.7		calm	0	0			10 ks			0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.26	768.6	30.30	769 6	4	—15.6	95	nw.	7	3.1		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.28	769 1	30.36	771.1	—12	—24.4	100	calm	0	0		0	0			0	0	clear	G. A. Blair.
Cornwall	30.26	768.6	30.48	774 2	2 3	—16.5	85	w.			1		10 8			0	0	overcast	Jas. Smith, M. A.
Dalhousie	30.28	769.1	30.33	770.4	1.5	—16.9		w.			2	5 k	0			0	0	d. clouds	H. A. Johnson.
Father Point, Quebec*	30.32	770.1	30.34	770.6	5	—15.0	91	nw.	20	8.9			10 8		calm	0	0	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.20	741.7	30.11	764 8	— 8	—22.2	100	w.	11	4.9			hz			map.	map.	hazy	James Stewart.
Fredericton	30.37	771.4	30.44	773.2	— 9.9	—23.3	100	calm	0	0						0	0	fair	Prof. Harrison, L. L. D.
Granton	29.25	742.9	30.48	774.2	8.7	—12.9	96	n.	2	0.9		9 c	0	sw.		0	0	d. clouds	Jas. Grant.
Halifax, N. S*	30.25	768.3	30.39	771.9	5	—15.6	96	w.	6	2.7		0	0			0	0	clear	A. Allison.
Hamilton	29.95	760 7	30.39	771.9	12.2	—11.0	89	sw.			1	10 cs	0	sw.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	30.14	765 5	30.51	774.9	12	—11.1	83	ne.	2	0.9			10 ks		sw.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	30.27	768.8	30.51	774.9	2	—16.7	87	w.	12	5.4			8k			0	0	cloudy	C. H. McLeod, C. E.
Ottawa	30.24	768.1	30.53	775.4	— 9.7	—23.2	100	calm				0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.69	754.1	30.45	773 4	14	—10.0	83	e.	5	2.2			10 n		sw.	0.04	1.0	cloudy	Rev. R. Mosley.
Peterboro	29.69	754.1	30.55	776.0	— 4.9	—20.5	67	calm				0	8 ks			0	0	fine	J. Dixon, B. A.
Port Dover, Ontario	29.67	753.6	30.43	772 9	12	—11.1	100	ne.	7	3.1		8 c	0	sw.		0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.72	754.9	30.43	772.9	14	—10.0	87	e.	5	2.2			8 k		w.	0	0	cloudy	M. Payne.
Quebec, Quebec*	30.11	764.8	30.48	774.2	— 6	—21.1	62	nw.			5	0	2 c		nw.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	30.00	762.0	30.54	775.7	—20	—28.9	100	calm	0	0		5 c	0	w.		0	0	fair	W. B. McIntyre.
Saugeen, Ontario*	29.66	753.4	30.46	773.7	6	—14.4	91	se.	5	2.2		0	0			0.05	1.3	clear	
St. Andrews, N. B	30.37	771.4	30.43	772.9	5	—15.0	76	nw.	2	0.9		0	0			0	0	clear	
St. John, N. B	30.25	768.3	30.43	772 9	5.0	—15.6	100	n.	5	2.2		0	0			0	0	blue sky	G. Murdock, C. E.
St. Pierre, N. F																			The Commandant.
Stratford			29.92	760.0	17.0	— 8.0		nw.			6					0	0		C. J. Macgregor, M. A.
Sydney, C. B*	29.05	737.9	30.48	774.2	4.2	—15.4	95	calm	0	0			10 8			0	0	overcast	T. C. Hill, C. E.
Toronto, Ontario*	30.14	765.5	30.21	767.3	10	—12.2	91	w.	9	4.0			10 8		w.	0	0	cloudy	Magnetic Observatory.
Windsor	30.05	763.3	30.47	773.9	10	—12.2	83	n.	8	3.6			10 ks		w.	0	0	cloudy	Prof. W. H. Butler.
Woodstock	30.25	768.3	30.36	771.1	7.0	—13.9	89	w.	4	1.8		0	0			0	0	clear	Prof. Wolverton, M. A.
Yarmouth, N. S*	29.31	744.5	30.50	774.7	5.7	—14.6	83					9 k	0	w.		0	0	d. clouds	Lt. F. E. Wilmot, R. N.
	30.35	770.9	30.42	772.7	18	— 7.8	73	nw.	0	2.7		0	8 k		nw.	0	0	fair	
Cape Colony.																			
Cape St. Francis Lt. House	29.84	757.9	29.87	758.7	71.0	21.7	73	w.	19.0	8.5		0	1 8					hazy	John Duthie.
Springbok Fontein	27.86	707 6			90	32.2	63	se.											T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower	Clouds. Direction. Upper	Clouds. Direction. Lower	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.71	627.7	.....	.....	18.9	— 7.3	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.58	776.6	30.69	779.4	8.2	—13.2	68	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Mission, S. J.
Zi-Ka-Wei, near Shanghai.	30.37	771.4	30.40	772.1	34.9	1.6	82	n.	20.8	9.3	.....	.....	10 k	.....	n.	0	0	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.85	758.1	29.89	759.3	30.7	— 0.7	88	se.	13	6	.....	.....	10	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	29.79	756.6	29.81	757.1	31.1	— 0.5	96	se.	.....	.....	4	.....	10	.....	.....	.....	.....	hazy	Overloerer Lauridsen.
Godthaab, Greenland	28.89	733.8	28.93	734.9	16.3	— 8.7	94	nw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Ivigtut, Greenland	28.79	730.2	28.77	730.7	10.4	—12.0	.....	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	S. Kleinschmidt.
Jacobshavn, Greenland	28.87	733.2	28.91	734.4	18.1	— 7.7	.....	e.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.65	727.8	28.70	728.9	33.4	0.8	87	ne.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	
Thorshavn	29.02	737.1	29.06	738.0	44.2	6.8	87	ssw.	25	11	.....	.....	8	.....	.....	.....	.....	.....	A. O. Thorlacius.
Vestervig	29.72	755 0	29.82	757.3	30.2	— 1.0	94	ese.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	Overloerer Bergh.
Upernavik, Greenland	29.03	737.3	29.08	738.5	0.3	—17.6	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	Loerer Oesterbol.
French.																			
Agen, Normal School	29.28	743.6	29.93	760.3	46.0	7.8	97	nw.	.....	.....	1	.....	n;kn	.....	w.	0.24	6.	.....	M. Labroue, Director.
Alençon, Normal School	29.35	745.4	29.90	759 4	42.8	6	88	nw.	.....	.....	1	.....	8	.....	.....	0	0	.....	M. Nicot, Director.
Arras, Engineer School	29.48	748.7	29.74	755 4	33.1	0.6	85	.....	.....	.....	6	.....	10	.....	nw.	0	0	covered	M. Fénéon, Command't.
Avignon, Normal School	29.61	752.1	29.69	754.1	51.8	11	48	n.	.....	.....	4	1	1	se.	n.	0.217	5.5	clear	M. Giraud, Director.
Bar-sur-Seine	29.30	744.3	29.88	758.8	39.7	4.3	92	sw.	.....	.....	1	.....	10	.....	w.	0.059	1.5	covered	M. Saillard, Director.
Beauvais, Normal School	29.59	751.5	29.86	758.4	44.4	6.9	85	w.	.....	.....	1	.....	5	.....	w.	0.12	3.	cloudy	M. Frère Eugène Marie.
Besançon, Normal School	28.89	733 8	29.83	757.6	43.5	6.4	91	s.	.....	.....	1	.....	n	.....	s.	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	29.63	752.6	29.89	759.3	45.1	7.3	88	n.	.....	.....	1	.....	8	.....	n.	0.126	3.2	al. covered	M. Rayet, Director.
Bourges, Normal School	29.31	744.4	29.87	758.7	41.9	5.5	83	sw.	.....	.....	1	.....	kn	.....	sw.	0.24	6.	.....	M. Malet, Director.
Brest, Naval Observatory	29.74	755.5	29.98	761.6	50.0	10.0	80	calm	.....	.....	0	.....	1	.....	.....	0.098	2.5	.....	M. de Kermarec, Dir.
Caen, Normal School	29.76	756.0	29.84	757.9	45.7	7.6	77	e.	.....	.....	1	.....	0	.....	.....	0.071	1.8	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.49	749.1	29.82	757 4	42.8	6.0	92	w.	.....	.....	1	.....	8	sw.	s.	0.197	5.0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.28	743.7	29.80	756.9	42.4	5.8	97	sw.	.....	.....	1	.....	8	.....	sw.	0.110	2.8	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.48	723.4	29.86	758.4	44.2	6.8	62	n.	.....	.....	1	.....	8	.....	n.	0.075	1.9	¾ covered	M. Allnard, Director.
Cluny, Normal School	28.99	736.4	29.86	758.4	43.7	6.5	85	n.	.....	.....	1	.....	.....	.....	n.	0.138	3.5	.....	M. de Villemontée, Dir.
Commercy, Normal School	28.98	736.1	29.87	758.7	39.9	4.4	87	w.	.....	.....	3	.....	10 n	w.	w.	0.067	1.7	covered	Dr. Coulet, Director.
Gap, Normal School	27.12	688.9	29.70	754.3	40.3	4.6	90	se.	.....	.....	2	.....	8	s.	ne.	0.35	9.	.....	M. Jeangirard, Director.
Grénasque, du Rhone	28.50	723.8	29.63	752.5	46.6	8.1	80	nw.	.....	.....	2	.....	7	.....	nw.	0.276	7.0	.....	M. Klun, Director.
Grenoble. Normal School	28.99	736.3	29.77	756.2	45.3	7.4	71	wnw.	.....	.....	2	.....	u	.....	n.	0.264	6.7	.....	M. Ablard, Director.
Guéret	28.31	719.1	29.93	760.2	41.0	5	81	n.	.....	.....	1	ck	o	n.	.....	0	0	.....	M. Delorme, Dir.
Lamballe, Normal School	29.68	753.9	29.95	760.8	46.8	8.2	83	w.	.....	.....	2	.....	1	.....	w.	0.08	2.	clear	M. Olliffault, Director.
Lescar, Normal School	29.26	743 2	29.84	757.9	42.8	6.0	85	w.	.....	.....	1	.....	10	.....	.....	0.315	8.0	raining	M. Chauvin, Director.
Lorient, Naval Observatory	29.86	758.5	29.97	761.1	50.9	10.5	73	nw.	.....	.....	1	.....	0	.....	.....	0.079	2.0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.77	730.7	29.85	758.1	42.8	6.0	82	n.	.....	.....	2	c	10 kn	sse.	n.	0.071	1.8	covered	M. André, Director.
Mans, Normal School	29.58	751.4	29.90	759.5	38.7	3.7	80	w.	.....	.....	1	.....	fg	.....	.....	0.098	2.5	dense fog	M. Piboën, Director.
Marseille, Observatory	29.38	746.2	29.65	753.1	50.0	10.0	74	nw.	.....	.....	2.3	.....	7	.....	nw.	0.051	1.3	.....	M. Stephan, Director.
Montlouis	24.54	623.2	29.38	746.2	30.2	— 1.0	75	sw.	5.6	2.5	.....	.....	7	w.	.....	0	0	.....	M. Caré for Dr. Fines.
Montpellier, Normal School	29.58	751.4	29.71	754.7	52.5	11.4	78	nw.	.....	.....	3	.....	2	.....	.....	0	0	slightly cl'dy	M. Gaizin, Director.
Nancy, Normal School	28.98	736.0	29.77	756.2	36.7	2.6	93	wsw.	.....	.....	1	.....	n	.....	.....	0	0	light fog	M. Hasse, Director.
Nantes, Observatory	29.80	756.9	29.96	761.0	47.8	8.8	76	nnw.	.....	.....	0–1	.....	3 k	.....	n.	0.134	3.4	.....	M. Larocque, Director.
Perpignan, Observatory	29.66	753.3	29.77	756.2	50.2	10.1	61	n.	24.2	10.8	.....	.....	10	.....	nw.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	20.85	529.5	.....	.....	12.2	—11.0	.....	nw.	.....	.....	3–4	.....	10	.....	nw.	0.866	22.0	snowy	M. Vaussenat.
Privas, Normal School	28.71	729.1	29.78	756.5	46.0	7.8	72	n.	.....	.....	1	.....	10	n.	n.	0.08	2.	covered	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.88	632.0	.....	.....	26.1	— 3.3	100	nnw.	.....	.....	2	.....	5	.....	nnw.	0.130	3.3	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.84	758.0	29.87	758.8	47.5	8.6	94	calm	.....	.....	0	.....	0	.....	.....	0.04	1.	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.75	755.6	29.97	761.2	46.2	7.9	83	w.	.....	.....	1	.....	2	.....	w.	0.08	2.	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.67	702.9	29.86	758.5	38.8	3.8	87	nw.	.....	.....	1	.....	hz	.....	se.	0.213	5.4	hazy	M. Seger, Director.
Rouen, Normal School	29.82	757.4	29.87	758.6	45.0	7.2	65	sw.	.....	.....	1	.....	5	ne.	.....	0.031	0.8	cloudy	M. Mouillot.
Saint Lô	.....	.....	.....	.....	47.3	8.5	79	w.	.....	.....	1	.....	5	.....	w.	0.012	0.3	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	29.71	754.6	29.87	758.8	44.2	6.8	81	calm	.....	.....	0	.....	3	.....	nw.	0.150	3.8	.....	M. Renou, Director.
Toulouse, Observatory	29.17	741.0	29.89	759.3	43.3	6.3	90	w.	.....	.....	2	.....	10	nw.	.....	0.319	8.1	covered	M. Baillaud, Director.
Tours	29.71	754.7	29.89	759.2	43.9	6.6	85	sw.	.....	.....	1	.....	0	.....	.....	0.079	2.0	clear	M. de Tastes.
Versailles, Observatory	29.37	740.1	29.87	758.6	43.5	6.4	82	w.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	29.80	756.8	29.95	760.6	48.4	9.1	78	nw.	19.7	8.8	.....	.....	9 k;kn	nw.	w.	1.260	32.0	.....	M. Cartier, Director.
German.																			
Ansbach	28.39	720 1	29.86	758.4	31.6	— 0.2	95	e.	.....	.....	2	.....	10	e.	.....	0	0	.....	Prof. Jnedt.
Bamberg	28.97	735.8	29.81	757.1	33.8	1.0	84	calm	.....	.....	0	.....	10	.....	.....	0	0	foggy	Prof. Dr. Hoh.
Breslau	29.36	745.7	29.89	759.1	36.7	2.6	65	se.	.....	.....	2	.....	2	.....	.....	0	0	.....	Dr. Lensch.
Carlsruhe	29.40	746.7	29.85	758.1	35.8	2.1	94	se.	.....	.....	2	.....	5	.....	.....	0	0	hazy	Royal University Obs'y.
Cassel	29.08	738.6	29.79	756.7	30.0	2.2	90	s.	.....	.....	1	.....	10	.....	.....	0.126	3.2	rain & fog	Albert Senz.
Frankfort-on-the-Main	29.47	748.5	29.85	758.2	35.1	1.7	93	s.	.....	.....	1	.....	10	.....	.....	0	0	.....	Dr. H. Möhl.
Friedrichshafen	28.36	720.4	29.84	757.9	36.0	2 2	100	e.	.....	.....	1	.....	10	.....	.....	0.016	0.4	.....	Physical Society.
Hamburg	29.75	755.6	29.84	757.9	29.5	— 1.4	98	w.	.....	.....	2	.....	10	w	.....	0.134	3.4	raining	Wilhelm, Chief Tel.
Kiel	29.82	757.3	29.83	757.7	31.5	— 0.3	88	se.	.....	.....	2	.....	10	.....	.....	0	0	foggy	E. Preller.
Leipsic, Astron'l Obs'y	29.41	747.0	29.84	758.0	37.0	2.8	77	sse.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Magdeburg	29.62	752.3	29.82	757.3	30.6	— 0.8	94	ssw.	.....	.....	2	.....	3	.....	.....	0	0	.....	H. Leppig, Asst.
Memel	30.13	765.4	30.18	766.6	13.5	—10.3	76	n.	.....	.....	1	0	7 k	.....	.....	0	0	foggy	Weather Observatory.
Munich	27.95	709 8	29.79	756.7	28.4	— 2.0	100	ese.	.....	.....	5	.....	10 8	.....	.....	.....	.....	.....	Issermann.
Neufahrwasser	30.02	762.4	30.03	762.8	19.9	— 6.7	81	n.	.....	.....	1	.....	10	.....	.....	0	0	dense fog	Central Station.
Neustadt, Palatinate	29.30	744.1	29.82	757.4	36.0	2.2	94	se.	.....	.....	3	.....	6	.....	.....	0	0	.....	A. Lothes.
Stuttgart	28.85	732.8	29.77	756.2	35.2	1.8	98	calm	.....	.....	0	.....	10	.....	.....	0	0	dense fog	Dicknether.
Wustrow	29.88	759.0	29.91	759.6	29.7	— 1.3	90	ne.	.....	.....	1	.....	10	.....	.....	0.193	4.9	rain & fog	Prof. Dr. Schoder.
Greek.								se.	.....	.....	2	.....	10	.....	.....	0	0	.....	Profs. Brandes & Reimer.
Athens	29.35	745.6	29.75	755.6	52.3	11.3	.....	ne.	.....	.....	4.0	.....	10	.....	.....	0	0	covered	Schmidt & Wourlisoh.
Indian.																			
Kurrachee	30.02	762.5	30.07	763.8	81.1	27.3	33	wsw.	7.0	3.1	.....	.....	0	.....	.....	0	0	blue sky	
Deesa	29.46	748.4	29.94	760.4	82.8	28.2	22	nw.	6.0	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.89	759.1	29.93	760.1	81.1	27.3	62	w.	10.0	4.5	.....	.....	3	w.	.....	0	0	d. clouds	
Poona, Yarrowda	28.05	712.4	29.90	759.3	81.8	27.7	25	ese.	7.0	3.1	.....	.....	4	w.	w.	0	0	d. clouds	
Belgaum	27.35	694.7	29.88	759.0	78.1	25.6	30	se.	3.0	1.3	.....	.....	6	s.	.....	0	0	d. clouds	
Lahore	29.30	744.2	30.07	763.9	63.6	17.6	53	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	29.06	738.2	29.99	761.7	66.8	19.3	43	calm	0	0	.....	.....	4	w.	.....	0	0	.....	
Agra	29.44	747.8	30.02	762.5	72.2	22.3	39	nw.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.90	734.1	29.96	760.8	77.7	25.4	34	calm	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Jubbulpore	28.69	726.6	29.97	761.2	78.2	25.7	46	calm	0	0	.....	.....	2	.....	n.	0	0	d. clouds	
Lucknow	29.60	752.0	29.99	761.6	69.3	20.7	46	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.66	753.4	29.99	761.7	65.4	18.6	70	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.78	756.3	29.97	761.2	68.4	20.2	47	w.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.94	709.6	30.02	762.4	62.7	17.1	45	nw.	7.2	3.2	.....	.....	1	.....	.....	0	0	d. clouds	
Cuttack	29.91	759.6	29.99	761.8	72.0	22.2	61	nne.	.....	.....	.....	.....	2	.....	.....	0	0	d. clouds	
Calcutta, Allpore	29.96	761.0	29.98	761.6	64.5	18.1	68	calm	0	0	.....	.....	1	.....	.....	0	0	d. clouds	
Dhubri	29.82	757.3	29.94	760.5	67.9	19.9	62	wsw.	2.2	1.0	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.89	759.1	29.98	761.4	69.6	20.9	66	calm	2.9	1.3	.....	.....	6	.....	.....	0	0	blue sky	
Sibsagar	29.60	751.9	29.95	760.8	63.4	17.4	80	ne.	2.0	0.9	.....	.....	2	.....	.....	0	0	blue sky	
Zanzibar	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Jeypore	28.54	724.9	30.01	762.3	71.9	22.2	50	ene.	2.3	1.0	.....	.....	1	e.	.....	0	0	blue sky	
Bellary	28.46	722.9	.....	.....	78.8	26.0	40	se.	6	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.68	753 9	.....	.....	80.6	27.0	53	ne.	2	0.9	.....	.....	10	.....	.....	0	0	overcast	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.33	745.0	29.75	757.7	44.6	7.0	63	se.	9.4	4.2	.....	.....	10	.....	.....	0.059	1.5	.....	Prof. Giovanni Clodig.
Milan	29.16	740.6	29.70	754.3	41.7	5.4	97	n.	0.7	0.3	.....	.....	10	.....	.....	0.654	16.6	.....	Prof. Schiapparelli.
Padua	29.59	751.6	29.71	754.5	43.5	6.4	83	nne.	13.0	5.8	.....	.....	10	.....	.....	0.299	7.6	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.77	730.7	29.71	754.7	39.6	4.2	95	ne.	1.3	0.6	.....	.....	10	.....	.....	1.606	40.8	.....	Prof. F. F. Denza.
Genoa	29.42	747.3	29.61	752.2	47.3	8.5	85	ne.	4.9	2.2	.....	.....	10	s.	.....	1.106	28.1	.....	Prof. G. M. Garibaldi
Mondovi	27.74	704.6	29.73	755.1	36.5	2.5	93	w.	.....	.....	4	.....	10	.....	.....	0.209	5.3	.....	Prof. D. C. Bruno.
Pesaro	29.60	751.7	29.05	753.0	49.6	9.8	92	ene.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.34	745.2	29.60	751.8	53.2	11.8	77	e.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.46	748.2	29.54	750.4	50.0	10.0	92	ese.	3.8	1.7	.....	.....	10	.....	.....	0.406	10.3	.....	Prof. P. Monte.
Rome	29.42	747.3	29.60	751.8	55.2	12.9	78	sse.	3.1	1.4	.....	.....	10	.....	.....	0.177	4.5	.....	Prof. P. Tachini.
Lecce	29.44	747.7	29.69	754.2	56.8	13.8	86	sse.	19.9	8.9	.....	.....	8	se.	.....	0	0	.....	Prof. O. de Giorgi.
Cosenza	28.80	731.5	29.70	754.3	67.3	19.6	77	sse.	2.5	1.1	.....	.....	5	sse.	.....	0.118	3.0	.....	Prof. D. Conti.
Cagliari	29.43	747.5	29.63	752.5	52.9	11.6	80	nw.	.....	.....	4	.....	0	.....	.....	0.039	1.0	.....	Prof. A. Pacinotti.
Palermo	29.41	746.9	29.66	753.3	56.8	13.8	76	wsw.	4.3	1.9	.....	.....	9	wsw.	.....	0.169	4.3	.....	Prof. G. Cacciatore.
Syracuse	29.03	752.7	29.68	753.8	59.0	15.0	74	wsw.	12.5	5.6	.....	.....	8	w.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. F.	29.13	739.9	29.65	753.0	56.3	13.5	77	sse.	1.8	0.8	.....	.....	10	.....	.....	0.008	0.2	.....	Prof. F. Brioschi.
Stelvio	21.80	553.6	.....	.....	24.8	— 4.0	98	ne.	.....	.....	2	.....	10	.....	.....	0.157	4.0	covered	Prof. P. F. Denza.
Valdobbia	21.77	553 0	.....	.....	23.9	— 4.5	71	ne.	.....	.....	2	.....	10	.....	.....	0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.93	760.1	29.96	760.9	38.7	3.7	71	calm	.....	.....	0	4 ck	6 ck	sw.	sw.	0.181	4.6	cloudy	Hattori.
Awomori	29.89	759.2	29.93	760.1	26.2	— 3.2	96	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	light snow	K. Ogawa.
Hakodate	29.88	759.0	29.89	759.2	31.7	— 0.2	94	nnw.	5.4	2.4	.....	0	9	.....	sw.	0	0	overcast	
Hamamatsu	30.00	762.0	30.03	762.7	39.2	4.0	78	calm	.....	.....	0	0	0	.....	.....	0	0	clear	
Kagoshima	30.18	766.6	30.19	766.9	34.2	1.2	77	n.	.....	.....	2	0	0	.....	.....	0.663	1.6	clear	G. Miyanohaza.
Kioto	29.88	759 0	30.06	763.6	35.9	2.2	87	nw.	inap.	inap.	.....	.....	9ck;ks	sw.	0	0	0	cloudy	M. Tojima.
Kochi	30.05	763.3	30.07	763.8	40.1	4.5	62	wnw	9.9	4.5	.....	0	0	.....	.....	0	0	clear	K. Kusunose.
Miasaka	30.14	765.4	30.16	766.1	38.2	3.4	64	n	.....	.....	2	0	0	.....	.....	0	0	clear	K. Masusaki.
Nagnsaki, I. M. Obs'y	29.95	760.7	30.16	766.1	35.8	2.1	70	calm	0	0	.....	3 c	0	w.	.....	0.150	3.8	clear	S. Takehayashi.
Niigata	30.00	762.0	30.04	763.0	34.2	1.2	96	ssw.	3.0	1.3	.....	.....	10 n	.....	sw.	0.710	18.0	light snow	M. Moritta.
Nobiru	29.97	761.2	29.99	761.6	31.5	— 0.3	88	nnw.	5.6	2.5	.....	.....	10s;ks	.....	w.	0	0	overcast	H. Midzushima.
Numazu	29.93	760 3	29.97	761.2	40.7	4.8	75	ene.	.....	.....	4	2 cs	0	.....	.....	0	0	clear	R. Kaneda.
Sakai	30.00	763.5	30.07	763.8	31.1	— 0.5	84	w.	.....	.....	2	0	0	.....	.....	0.283	7.2	clear	K. Yamawchi.
Sapporo	.....	.....	.....	.....	20.8	— 6.2	91	calm	0	0	.....	.....	10	.....	.....	.....	.....	snowing	
Tokei Obs'y, Yeddo	29.91	759.6	29.99	761.7	35.8	2.1	81	wnw.	4.9	2.1	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	30.02	762.6	30.08	764.0	39.7	4.3	82	calm	0	0	.....	10 ck	0	wsw.	.....	0	0	cloudy	Y. Kuwamura.
Osaka	30.06	763.5	30.08	763 9	37.9	3.3	83	ne.	3.1	1.3	.....	10 ck	0	w.	.....	0	0	cloudy	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.62	752.3	29.81	757.2	81.3	27.4	74	ne.	21.5	9.6	.....	.....	10ks;kn	.....	nne.	0.48	12.2	cloudy	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	54.5	12.5	90	nw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	cloudy	H. Diaz Pena.
Guanajuato	23.72	602.4	29.94	760.4	50.0	10.0	82	s.	inap.	inap.	.....	3 c	0	.....	.....	0	0	clear	Prof. Vicente Fernandez.
Leon	24.37	719.0	30.19	766.8	47.7	8.7	86	nnw.	.....	.....	2	7 c	0	.....	.....	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.82	757.3	30.08	764.0	63.0	17.2	83	nw.	1.6	0.8	.....	8 cs	0	sw.	.....	0	0	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.16	588.2	30.15?	770.8?	45.9	7.7	76	calm	0	0	.....	0	0	.....	.....	0	0	fine	The Staff.
Morelia	24.28	616.8	30.18	766.5	47.5	8.6	64	se.	.....	.....	2	0?	0?	.....	.....	inap.	inap.	cloudy?	M. Tena, M. D.
Pabellon	23.98	609.0	30.14	765.6	43.5	6.4	85	calm	0	0	.....	.....	0	.....	.....	0	0	.....	
Puebla, Catholic Institute	23.48	596.0	30.40	772.1	43.7	6.5	71	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
Zacatecas	22.53	572.2	30.28	769.1	44.3	7.0	68	sw.	11.2	5.0	.....	10 ck	0	wsw.	.....	0	0	covered	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.78	756.3	29.78	756.3	42.4	5.8	.....	sse.	.....	.....	4	.....	.....	.....	.....	0.228	5.8	.....	
Groningen	29.73	755.2	29.79	756.0	36.0	2.2	.....	wsw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.77	756.1	29.77	756.1	40.6	4.8	92	sse.	.....	.....	1	.....	.....	.....	.....	0.039	1.0	.....	
Utrecht	29.77	756.1	29.82	757.3	40.1	4.5	93	s.	.....	.....	2	.....	8	.....	.....	0.059	1.5	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.84	758.0	.....	.....	79.5	26.4	86	n.	0	0	.....	.....	7	.....	.....	0.08	2.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.67	753.7	29.74	755.3	36.3	2.4	82	s.	7	3	.....	.....	10	.....	.....	0	0	.....	
Brono	29.60	753 4	29.70	754.4	34.2	1.2	65	calm	0	0	.....	.....	0	.....	.....	0	0	.....	
Christiania	29.80	756.8	29.95	760.7	28.8	— 1.8	92	ne.	7	3	.....	.....	10	.....	.....	.....	.....	snowing	
Gjesvær	29.70	754.4	29.72	755.0	22.1	— 5.5	.....	se.	.....	.....	7	.....	0	.....	.....	.....	.....	.....	
Lodingen	29.09	754.0	29.73	755.2	21.9	— 5.6	73	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	30.16	766.1	30.32	770.1	58.6	14.8	74	wsw.	13.6	6.1	.....	.....	4	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.21	741.9	30.23	767.9	51.8	11.0	75	wnw.	8.7	3.9	.....	.....	4	.....	.....	0.138	3.5	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.28	769 0	30.30	771.2	64.2	17.9	45	nne.	7.4	3.3	.....	.....	2	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.94	760.5	30.31	769.8	55.6	13.1	58	nne.	18.1	8.1	.....	.....	4	.....	.....	0.079	2.0	.....	The Staff.
Ponta Delgada, Azores	30.33	770.3	30.40	772.1	60.8	16.0	59	sw.	5.6	2.5	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	29.05	753 2	29.85	758.3	76.8	24.9	92	w.	1.8	0.8	.....	.....	5	sw.	.....	0	0	.....	
Serra da Estrella	25 21	640 4	30.14	765.6	29.3	— 1.5	100	nw.	19.2	8.6	.....	.....	7	.....	.....	.....	.....	foggy	
RUSSIAN.																			
Akmollinski	28.84	732.4	30.06	763.4	— 7.4	—21.9	85	sw.	16	7	.....	7 c	0	.....	.....	.....	.....	.....	Major K. Lasarew.
Archangel	30.23	767.9	30.25	768.4	2.8	—16.2	90	e.	4	2	.....	.....	10	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashurada	30.48	774.2	30.39	771.8	41.5	5.3	87	ne.	9	4	.....	.....	10 kn	.....	.....	0	0	.....	
Astrakhan	30.03	778.1	30.55	776.0	— 0.2	—17.9	73	w.	4	2	.....	0	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.52	775.2	30.47	774.0	27.1	— 2.7	64	n.	9	4	.....	.....	9 n	.....	.....	0	0	.....	
Barnaul	29.01	752.2	30.15	765 9	10.3	— 8.7	73	sw.	9	4	.....	.....	5	.....	.....	0	0	.....	
Bielosersk	29.83	757.0	30.35	770.8	7.5	—13.6	93	calm	0	0	.....	.....	10 n	.....	.....	0.004	0.1	light snow	Meteorological Obs'y.
Dorpat	30.13	765 2	30.40	772.2	— 1.3	—18.5	89	s.	7	3	.....	0	0	.....	.....	0	0	.....	
Ekaterinburg	28.84	732.4	29.95	760.6	—20.0	—28.9	76	w.	4	2	.....	.....	10	.....	.....	0.008	0.2	light snow	Observatory.
Elisawetgrad	30.07	763.8	30.57	776.5	10.4	—12.0	70	e.	7	3	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y.
Irkutsk	28.75	730.3	30.01	777.5	— 2.0	—18.9	76	sse.	.....	.....	3	.....	0	.....	.....	0	0	.....	
Kasan	29.81	757.2	30.11	764.8	3.6	—15.8	74	wnw.	2	1	.....	.....	7	.....	.....	0.020	0.5	.....	Observatory.
Kem	30.11	764.9	30.17	766.2	16.7	— 8.1	97	calm	0	0	.....	.....	10 ks	.....	.....	0	0	heavy cl'ds.	
Kerch	30.28	769.1	30.30	769.6	13.6	—10.2	73	ne.	7	3	.....	0	0	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.85	758.1	30.56	776.3	4.1	—15.5	86	se.	7	3	.....	0	0	.....	.....	0	0	.....	Observatory.
Koslov	29.70	756.0	30.35	771.0	2.7	—16.3	75	wnw.	9	4	.....	0	0	.....	.....	0	0	.....	
Libau	30.12	765.1	30.15	765.7	14.5	— 9.7	67	ese.	13	6	.....	.....	0	.....	.....	0	0	.....	E. Quaas.
Lugan	30.25	768.4	30.46	773 7	2.5	—16.4	55	nw.	9	4	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.87	758 8	30.41	772.5	6.1	—14.4	66	nw.	6.7	3.0	.....	2 c	0	.....	.....	0	0	.....	
Nikolaievsk	30.35	770.8	30.42	772.7	14.0	—10.0	80	ene.	22	10	.....	.....	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.31	769.9	30.40	772.1	—22.4	—30.2	70	calm	0	0	.....	.....	8	.....	.....	0	0	.....	Iwanow.
Pekin, China	30.58	770.7	30.72	780.3	7.7	—13.5	26	nw.	16	7	.....	0	0	.....	.....	0	0	.....	Physicla Observatory.
Petrozavodsk	30.04	763.0	30.26	768.6	4.6	—15.2	81	nw.	7	3	.....	c	7 ks	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.84	757.9	30.38	771.7	10.3	— 8.7	54	ese.	22	10	.....	0	2 s	.....	.....	0	0	light clouds	
Poti	29.92	760 0	29.94	760.5	42.8	6.0	75	e.	18	8	.....	0	5 k	.....	.....	0	0	.....	
St. Petersburg	30.35	771.0	30 37	771.4	3.0	—16.1	85	s.	4	2	.....	3 ck	0	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Sevastopol	29.84	757.9	30.00	762.1	37.6	3.1	64	sw.	7	3	.....	2 cs	0	.....	.....	0	0	light clouds	
Semipalatinsk	29.58	751.3	30.29	769.3	10.8	—11.8	74	w.	4	2	.....	.....	2	.....	.....	0	0	.....	Major Lasarew.
Staroi Bykhov	30.11	764.7	30.03	777.9	4.3	—15.4	86	se.	2	1	.....	.....	.....	.....	.....	0	0	.....	
Tiflis	28.94	735.1	30.40	773.6	28.4	— 2.0	86	ese.	7	3	.....	.....	10	.....	.....	0.146	3.7	snowing	Physical Observatory.
Tomsk	29.66	753.4	29.96	761.0	16.5	— 8.6	80	s.	20	9	.....	.....	5 k	.....	.....	.....	.....	.....	
Viatka	29.45	748 1	30.17	766.2	— 5.8	—21.0	.....	n.	4	2	.....	.....	0	.....	.....	0	0	.....	
Warsaw	29.61	752.2	30.06	763 6	23.5	— 4.7	72	s.	18	8	.....	c	6 ks	.....	.....	0.020	0.5	.....	Astronomical Obs'y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec.	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Wilna	29.93	760.2	30.39	771.9	11.8	—11.2	61	se.	2	1			0			0	0		Berg, Assistant.
Yeniseisk	30.02	762.4	30.34	770.5	5.4	—14.8	90	ese.	9	4			10			0	0	light clouds	M. O. Marks.
Scottish.																			
Monach Lt			29.31	744.5	45	7.2	92	ssw.			8		10			0.3	8.	overcast	J. Youngclause.
North Unst			29.42	747.3				sw.			6		10						Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.69	754.1	29.80	756.8	52.9	11.6	77	sw.	2.7	1.2		0	6			0.071	1.8	½ covered	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.00	761.9	30.06	763.4	48.2	9.0	86	nw.	2.7	1.2			10			0.280	7.1	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.05	687.0	30.14	765.6	36.5	2.5	84	n.	12.1	5.4			6			0.138	3.5	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.80	706.0	30.09	764.2	43.9	6.6	53	nw.	28.9	12.9		0	1			0.008	0.2	almost clear	The Staff.
Murcia, Met. Obs'y	29.78	756.4	29.89	759 3	54.0	12.2	76	nw.	9.6	4.3		2	7	e.		0.087	2.2	raining	Olayo Diaz, Director.
Oviedo	29.19	741.3	30.07	763.7	41.9	5.5	86	e.	8.3	3.7		0	0			0.106	2.7	clear	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.24	742 8	30.15	765.9	50.0	10.0	72	w.	3.1	1.4			8			0.461	11.7	cloudy	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.81	757.1	29.87	758.6	78.8	26.0	84	ssw.	0	0		1 c	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.15	765.7	30.25	768.3	58.1	14.5	76	nw.	17.6	7.9		0	4		nw.	0.011	0.3		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.99	761.8	30.08	764.1	78.8	26.0	84	calm	0	0		1 c	3 k	e.	e.	0.984	25.0		Manuel Maese.
Swedish.																			
Haparanda	29.99	761.8	30.03	762.8	21.6	— 5.8	95	s.			2		10			0	0		
Umea	29.97	761.1	30.02	762.4	28.0	— 2.2	96	w.			2		10			0	0		
Hernosand	29.97	761.3	30.02	762.6	28.0	— 2.2	87	s.			4		10			0	0		
Stockholm	29.89	759.2	30.08	763.9	29.1	— 1.6	88	sse.			4		10			0	0		
Wisby	30.00	762.0	30.06	763 5	25.5	— 3.6	91	sse.			4		10			0	0		
Sub-series.																			
Upsala	29.95	760.8	30.04	763.0	29.1	— 1.6	93	sse.	11.2	5.0			10			0	0		Sv G. Fineman.
Swiss.																			
Geneva	28.37	720 6	29.83	757.7	42.4	5.8	79	nne.			3		10			0.102	2.6	covered	The Observatory.
Turkish.																			
Constantinople			29.85	758.2	43.5	6.4	94	n.	34	15.0			10		ne.	0.189	4.8		The Observatory.
Valona			29.77	756.1	59.2	15.1		se.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.97	761.3	68.2	20.1	56	s.			4		2 n		sw.	0.34	8.6		Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.63	676.4			28.5	— 1.9	90	w.			1		10 n			0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.49	774 4	30.58	776.7	17	— 8.3	70	w.	1	0.4			10s;sk			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.69	754.1	30.40	772.1	4	—15.0	72	w.	3	1.3		10 cs	0			0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.95	633.7	30.07	763.8	28	— 2.2	80	e.	1	0.4			10 s			0.03	0.8	cloudy	W. O. Barnes.
Assinnaboine, Ft., Montana	27.12	688.8	30.16	766.1	4	—15.6	76	sw.	16	7.2		0	3 s		sw.	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.09	738 9	30.32	770.1	35.0	1.7	89	e.	10	4.5			10 s			0.01	0.3	cloudy	H. C. Smith.
Atlantic City, New Jersey	30.48	774.2	30.49	774.4	26	— 3.3	76	n.	6	2.7			10 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.18	766.6	30.38	771.6	41	5.0	78	n.	5	2.2			10 s			0.19	4.8	cloudy	John Healy.
Baltimore, Maryland	30.51	774.9	30.56	776,2	26	— 3.3	51	ne.	2	0.9			10 s			0	0	cloudy	Geo W Felger.
Barnegat, New Jersey	30.51	774.9	30.53	775.4	27.0	— 2.8	88	ne.	11	4.9		7 cs	3 k	sw.	sw.	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.43	747.5	29.45	748.0	32.0	0.0		n.	10	4.5			10 n			0.02	0.5	cloudy	Leonard Steineger.
Bennett, Fort, Dakota	28.49	723.6	30.23	767 8	— 1	—18.3	72	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.17	690.1	30.15	765.8	12	—11.1	83	ne.	2	0.9			10 s		ne.	0	0	cloudy	S. Wheaton.
Billings, Montana	26.70	678.2			— 3	—19.4		n.	5	2.2		2 c	4 s	w.	nw.	0	0	fair	T. Gibson.
Bismarck, Dakota	28.19	716.0	30.18	766.6	— 1	—18.3	72	calm	0	0		hz.	0			0	0	dense haze	Cyrus Cramer.
Block Island, Rhode Island	30.53	775.4	30.56	776.2	24	— 4.4	73	n.	15	6.7			10 s			0	0	cloudy	T. T. Elker.
Boise City, Idaho	27.00	685.8	29.93	760.2	8	—13.3	96	n.	4	1.8			10 s			0.99	25.1	cloudy	B. E. Light.
Boston, Massachusetts	30.39	771.9	30.56	776.2	23.0	— 5.0	67	w.	5	2.2			10 s		nw.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.90	759.4	29.94	760.5	64.7	18.2	90	s.	8	3.6		0	4 s			0	0	fair	M. McCarty.
Buffalo, New York	29.63	752.6	30.43	772.9	14.3	— 9.8	81	ne.	6	2.7		0	sk.			inap.	inap.	dense smoke	W. Finn.
Buford, Fort, Dakota	27.98	710.7	30.18	766.6	8	—13.3	80	s.	4	1.8			10 s			inap.	inap.	cloudy	F. A. Mellen.
Burlington, Vermont	30.24	768.1	30.55	776.0	13.6	—10.2	81	s.	5	2.2			10 s		w.	0	0	cloudy	G. O. Schaeffer.
Cairo, Illinois	29.88	758 9	30.30	769.6	32.8	0.4	80	se.	6	2.7		0	4 s			0	0	fair	W. H. Ray.
Cape Henry, Virginia	30.46	773.7	30.48	774.2	31	— 0.6	100	n.	16	7.2			10 n			inap.	inap.	light snow	A. K. Alderson.
Cape May, New Jersey	30.49	774.4	30.52	775.2	25.0	— 3.9	73	n.	8	3.6			10 s			0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.53	750.0	30.23	767.8	41	5.0	82	nw.	10	4.5		0	0			0	0	cloudy	J. J. McLean.
Cedar Keys, Florida	30.18	766.6	30.20	767.1	58	14.4	93	ne.	6	2.7			fg.			0	0	dense fog	F. W. Mixer.
Champaign, Illinois	29.45	748.0	30.32	770.1	22.5	— 5.3	72	se.	8	3.6			10 s		se.	0.08	2.0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.25	768.3	30.31	769.9	44	6.7	76	n.	8	3.6			10 s		n.	0	0	threatening	J. H. Smith.
Charlotte, N. Carolina	29.48	748.8	30.37	771.4	30.0	— 1.1	88	n.	7	3.1			10 s		ne.	0.16	4.1	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.47	748.5	30.33	770.4	36.5	2.5	84	ne.	9	4.0			10 s		s.	0.02	0.5	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.82	605 0	30.07	763.8	0.7	—17.4	29	nw.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.58	751.3	30.33	770.4	22.1	— 5.5	76	se.	4	1.8			10 n		se.	0.03	0.8	light snow	J. Mitchell.
Chincoteague, Virginia	30.48	774.2	30.50	774.7	27	— 2.8	77	n.	12	5.4			10 s		nw.	0	0	cloudy	O. F. Dickens.
Cincinnati, Ohio	29.68	753 9	30.38	771.6	28	— 2.2	88	n.	2	0.9			10 s		nw.	inap.	inap.	cloudy	R. B. Watkins.
Cleveland, Ohio	29.60	751.8	30.38	771.6	17.5	— 8.1	85	se.	3	1.3		10 k	0	w.		inap.	inap.	cloudy	J. B. Newlin.
Coleman City, Texas	28.15	715.0	30.03	762.7	43	6.1	100	se.	4	1.8			fg.			0	0	dense fog	L. Dorman.
Columbus, Ohio	29.47	748.5	30.37	771.4	22	— 5.6	87	e.	4	1.8			10 n			0.04	1.0	light snow	D. Cuthbertson.
Concho, Fort, Texas	27.99	710.9	30.01	762.2	38.0	3.3	82	ne.	6	2.7		0	0			inap.	inap.	clear	J. McGlone.
Davenport, Iowa	29.56	750.8	30.28	769.1	25	— 3.9	64	e.	5	2.2			10 s			0.01	0.3	cloudy	W. B. Lamar.
Davis, Fort, Texas	25.10	637.5	30.08	764.0	32	0.0	74	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.20	716.3	30.00	762.0	24	— 4.4	88	w.	1	0.4			10 s			0.25	6.3	cloudy	D. Moore.
Deadwood, Dakota	25.22	640.6	30.16	766.1	— 4	—20.0	100	ne.	2	0.9			10 s			0	0	cloudy	F. Wilson.
Delaware Breakwater, Del	30.51	774.9	30.53	775.4	26	— 3.3	88	n	7	3.1			10 ks		w.	0	0	cloudy	T. S. Townsend.
Denison, Texas	29.23	742.4	30.07	763.8	36.0	2.2	100	se.	5	2.2			10 n			0.11	2.8	light rain	J. W. Byram.
Denver, Colorado	24.58	624.3	30.10	764.5	14.0	—10.0	70	nw.	10	4.5		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.32	744.7	30.30	769.6	23	— 5.0	73	se.	2	0.9			10 s		se.	inap.	inap.	cloudy	F. W. Conrad.
Detroit, Michigan	29.65	753.1	30.41	772.4	19.0	— 7.2	84	e.	4	1.8		7 k	3 s	nw.	e.	0.02	0.5	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.31	693.7	30.06	763.5	20	— 3.3	100	ne.	12	5.4			10 n			0.08	2.0	light snow	V. P. Temple.
Dubuque, Iowa	29.53	750.0	30.30	769.6	19.5	— 6.9	80	calm	0	0			10 s			0.01	0.3	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.47	748.5	30.28	769.1	6	—14.4	76	calm	0	0			10 s			0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.21	741.9	30.05	763.3	51.0	10.6	93	se.	2	0.9			10 n			inap.	inap.	light rain	F. Belford.
Eagle Rock, Idaho	25.19	639.8	30.15	765.8	12	—11.1	83	sw.	3	1.3			10 s			0	0	cloudy	J. M. Clifford.
Eastport, Maine	30.37	771.4	30.44	773.2	7.0	—13.9	70	w.	7	3.1		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.14	689.3	30.07	763.8	30	— 1.1	81	se.	8	3.6			fg.		se.	0	0	dense fog	W. J. Cundall.
El Paso, Texas	26.18	665.0	30.06	763.5	35.0	1.7	66	s.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.64	752.8	30.41	772.4	20	— 6.7	84	se.	3	1.3			10 n			inap.	inap.	light snow	Peter Wood.
Escanaba, Michigan	29.63	752.6	30.35	770.9	8.0	—13.3	100	nw.	3	1.3			10 n			0.04	1.0	light snow	George Heathcote.
Fredericksburg, Texas	28.22	716.8	30.04	763.0	42	5.6	100	e.	2	0.9			fg.			0.12	3.0	light fog	Frank Halwegler.
Galveston, Texas	30.00	762.0	30.05	763.3	51	10.6	96	e.	11	4.9			fg.			0.35	8.9	dense fog	E. O'C. MacInernay.
Grand Haven, Michigan	29.64	752.8	30.35	770.9	12.0	—11.1	80	e.	4	1.8			10 s			inap.	inap.	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.14	638.5	30.04	763.0	33	0.6	92	nw.	4	1.8			10 n			0.03	0.8	light rain	Robert C. Lord.
Hatteras, North Carolina	30.32	770.1	30.34	770.6	40	4.4	100	ne.	27	12.1			10 n		se.	0.08	2.0	light rain	R. M. Crawford.
Helena, Montana	25.65	651.5	30.08	764.0	16	— 8.9	83	sw.	5	2.2			10 n		calm	0.02	0.5	light snow	N. C. Smith.
Henrietta, Texas																		dense fog	J. P. Sherry.
Huron, Dakota	28.70	729.0	30.24	768.1	13.3	—10.4	80	se.	4	1.8			fg.			0	0		S. W. Glenn.
Indianapolis, Indiana	29.49	749.0	30.33	770.4	23	— 5.0	80	e.	4	1.8		0	7 s		se.	0.01	0.3	fair	J. F. Jirdinston.
Indianola, Texas	29.97	761.2	30.00	762.0	51.0	10.6	100	e.	13	5.8			10 s			0.06	1.5	cloudy	I. A. Reed.
Jacksboro, Texas	28.85	732.8	30.09	764.3	40	4.4	82	e.	12	5.4			fg.			inap.	inap.	dense fog	D. J. Carr.
Jacksonville, Florida	30.24	768.1	30.29	769.4	50	10.0	93	ne.	4	1.8			10 s			0	0	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.47	697.7	30.16	766.1	— 3	—19.4	68	sw.	1	0.4			10 s		w.	inap.	inap.	cloudy	A. Schneider.
Keokuk, Iowa	29.29	744.0	29.99	761.7	20.0	— 3.3	88	e.	4	1.8			10 s			0.08	2.0	cloudy	F. Z. Gosewisch.

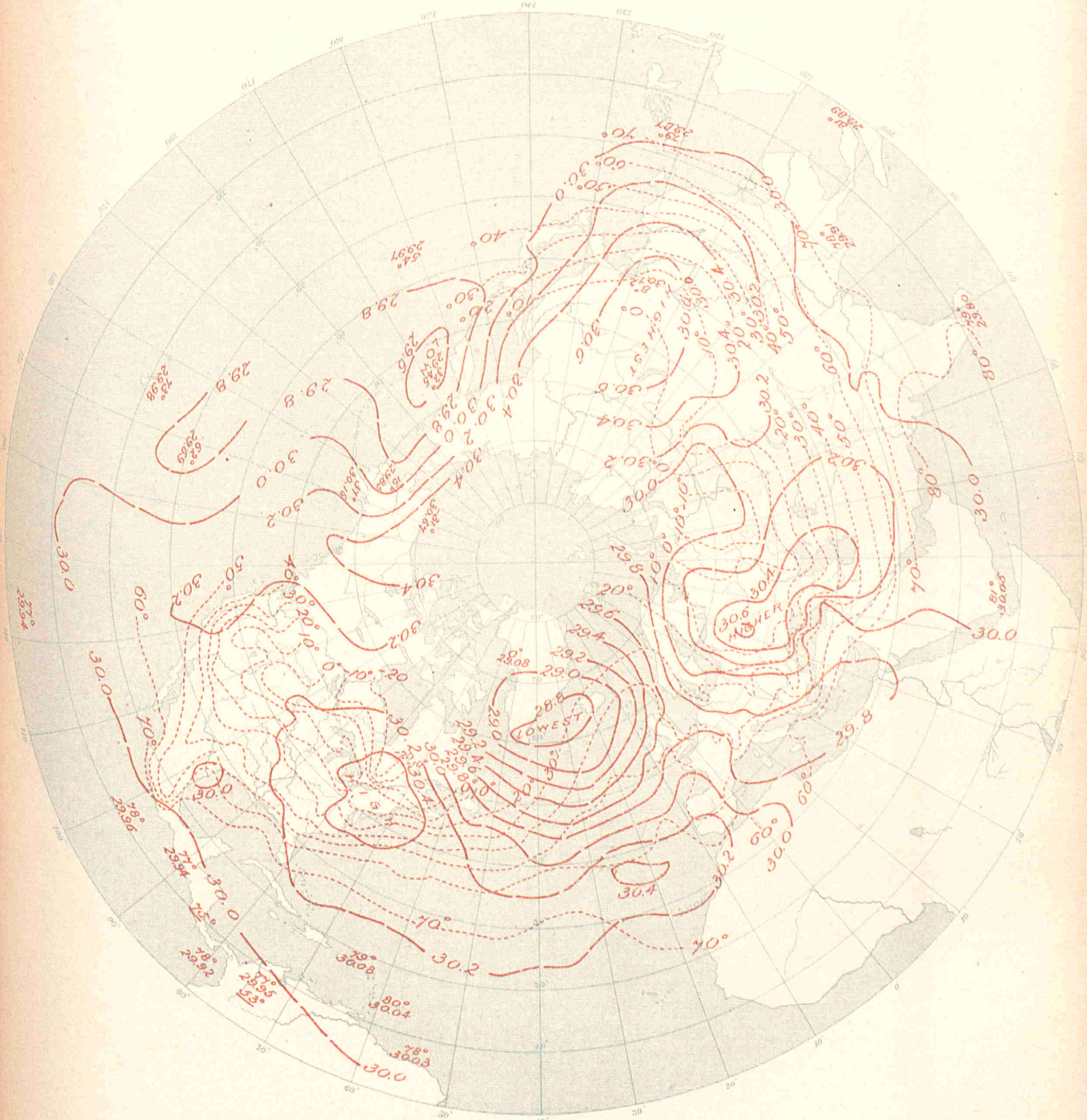
STATIONS	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	Observers
								Direction.	Velocity		Force.	Upper.	Lower.	Upper.	Lower.				
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
United States.—Cont'd.																			
Key West, Florida	30.11	764.8	30.13	765.3	71.0	21.7	90	se.	8	3.6		0	3 k		se.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.31	769.9	30.33	770.4	37	2.8	89	ne.	32	14.3			10 n		ne.	0.13	3.3	light rain	H. Mc P. Baldwin.
Knoxville, Tennessee	29.27	743.4	30.35	770.9	33.5	0.8	100	ne.	3	1.3			10s;fg			0.20	5.1	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.47	748.5	30.31	769.9	12	—11.1	80	nw.	1	0.4			10 n			0.01	0.3	light snow.	S. C. Emery.
Leavenworth, Kansas	29.25	742.9	30.21	767.3	30	— 1.1	88	e.	1	0.4			10 n			0.06	1.5	light snow.	A. W. Browns.
Lewiston, Idaho	29.20	741.7	30.07	763.8	28.0	— 2.2	88	w.	1	0.4			10 n			0.04	1.0	light snow	W. Bell.
Little Rock, Arkansas	29.88	758.9	30.20	767.1	35	1.7	79	s.	5	2.2			10 s			0.02	0.5	cloudy	W. U. Simons.
Los Angeles, California	29.76	755.9	30.16	766.1	39	3.9	53	ne.	8	3.6		0	0			0.01	0.3	clear	T. S. Collins.
Louisville, Kentucky	29.73	755.1	30.32	770.1	27	— 2.8	54	ne.	6	2.7		0	0				0	clear	L. M Dey.
Lynchburg, Virginia	29.73	755.1	30.45	773.4	27.2	— 2.7	64	e.	4	1.8			10 s				0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.68	753.9	30.38	771.6	16.0	— 8.9	67	se.	4	1.8		6 cs	0			0.02	0.5	fair	F. R. Day.
Macon, Fort, North Carolina	30.35	770.9	30.36	771 1	35.0	1.7	100	ne.	22	9.8			10 s		ne.	0	0	cloudy	William Daly.
Madison, Wisconsin	29.22	742.2	30.31	769.9	14	—10.0	80	e.	1	0.4			10 s		se.	inap.	inap.	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.41	645.4	29.96	761.0	9	—12.8	60	w.	6	2.7			10 s		w.	0	0	cloudy	F. Burke.
McKavett, Fort, Texas	27.71	703.8	30.10	764.5	39	3.9	82	calm	0	0			10 s			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.53	750.0	30.31	769.9	14	—10.0	64	s.	5	2.2			10 s			0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.87	758.7	30.23	767.8	35	1.7	69	ne.	2	0.9		4 cs	sk	w.		0.02	0.5	fair	D. T. Flannery
Milwaukee, Wisconsin	29.54	750.3	30.34	770.6	18	— 7.8	84	sw.	1	0.4		0	58;fg			0.04	1.0	fair	W. Line
Missoula, Fort, Montana	26.60	675.6	30.06	763.5	12	—11.1	83	calm	0	0			10 n			0.05	1.3	light snow	I. H. Young.
Mobile, Alabama	30.08	764.0	30.12	765.0	51.5	10.8	90	n.	4	1.8			10 s		n.	1.23	31.2	cloudy	C. A. Read.
Montgomery, Alabama	29.94	760.5	30.18	766.6	45	7.2	96	ne.	6	2.7			10 s		ne.	0.64	16.3	threatening	J. B. McLaughlin
Moorhead, Minnesota	29.09	738.9	30.20	767.1	0	—17.8	68	s.	5	2.2		0	0			0	0	clear	H. Bessapt.
Morgantown, W. Virginia	29.32	744.7	30.38	771.6	28.0	— 2.2	84	calm	0	0			10 s			0.02	0.5	threatening	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.69	601.7	30.32	770.1	— 8.0	—22.2	82	nw.	40	17.9		0	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.68	753.9	30.29	769.4	34.5	1.4	94	e.	4	1.8			10 ks		s.	0.02	0.5	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.43	772 9	30.55	776.0	17.5	— 8.1	75	n.	4	1.8			10 s			0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.55	776.0	30.60	777.2	20	— 6.7	70	n.	4	1.8			10 s			0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.06	763.5	30.12	765.0	51.5	10.8	85	ne.	6	2.7		0	0			0.52	13.2	clear	L. Dunne.
Newport, Rhode Island	30.50	774.7	30.55	776.0	23.3	— 4.8	71	nw.	6	2.7			10 s			0	0	cloudy	W. McGillivray.
New York, New York	30.37	771.4	30.56	776.2	25	— 3.9	73	ne.	4	1.8			10 s		ne.	0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	30.44	773.2	30.47	773.9	31	— 0.6	88	ne.	8	3.6			10 n			inap.	inap.	light snow	Wm. Davis.
North Platte, Nebraska	27.06	687.3	30.18	766.6	17.6	— 8.0	80	calm	0	0			10 n			0.01	0.3	light snow	E. F. Brady.
Olympia, Washington Ty.	30.10	762 0	30.04	763.0	34.0	1.1	88	s.	2	0.9			10 n			0.15	3.8	light rain	J. Dascomb.
Omaha, Nebraska	28.99	736.3	30.26	768.6	18.8	— 7.3	81	calm	0	0			10 s			0	0	cloudy	A. Pollak.
Ooglaamie, Alaska	30.65	778.5	30.67	779.0	—31.3	—35.2		e.	17	7.6		hz.	hz.			0	0	clear	P. H. Ray.
Oswego, New York	30.13	765.3	30.48	774.2	16.5	— 8.6	74	se.	7	3.1		8 cs	0	nw.		0.10	2.5	cloudy	J. G. Linsley.
Palestine, Texas	29.54	750.3	30.12	765.0	39.5	4.2	96	ne.	6	2.7			ton;fg			0.82	20.8	light rain	L. M. Pindell.
Pensacola, Florida	30.12	765.0	30.15	765.8	55.2	12.9	96	ne.	2	0.9			10 s			1.60	40.6	cloudy	M. McGauran.
Philadelphia, Pa	30.44	773.2	30.55	776.0	25	— 3.9	74	ne.	7	3.1			10 s		ne.	0	0	cloudy	T. T. Townsend.
Pike's Peak, Colorado	17.27	438.6	29.97	761.2	—11	—23.9	100	sw.	4	1.8		0	7 s		sw.	0.05	1.3	fair	H. Hall.
Ploche, Nevada	23.87	606.3	30.07	763.8	11.2	—11.6	80	nw.	4	1.8		0	3 ks			0.06	1.5	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.53	750.0	30.38	771.6	24.5	— 4.2	88	ne.	3	1.3			10 s		ne.	0.05	1.3	cloudy	W. A. Reid.
Poplar River, Montana	27.76	705.1	30.11	764.8				nw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.10	764.5	30.11	764.8	57.1	13.9	96	e.	4	1.8		0	5s;fg		se.	1.78	45.2	fair	H. B. Boyer.
Port Huron, Michigan	29.72	754.9	30.45	773.4	13.3	—10.4	96	calm	0	0		10 cs	sk.	nw.		0	0	cloudy	W. O. Bailey.
Portland, Maine	30.47	773.9	30.52	775.2	14	—10.0	54	nw.	4	1.8		0	fg.			0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.98	761.5	30.05	763.3	39.0	3.9	89	s.	4	1.8			10 s		s.	0.12	3.0	cloudy	M. L. Hearne.
Portsmouth, N. C.					39	3.9	100	n			7		10 n		ne.	0.22	5.6	light rain	F. S. Coburn.
Prescott, Arizona	24.64	625.8	30.02	762.5	15.5	— 9.2	87	se.	2	0.9		0	0			0.02	0.5	clear	W. H. Clendenon.
Provincetown, Mass	30.50	774.7	30.53	775.4	22	— 5.6	58	nw.	10	4.5		5 cs	3 s		nw.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.16	766.1	30.17	766.3	65.5	18.6	93	se.	8	3.6		7 c	0			0	0	fair	W. J. Evans.
Red Bluff, California	29.91	759.7	30.28	769.1	28	— 2.2	88	n.	3	1.3		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.75	755.6	30.46	773.7	18	— 7.8	84	se.	6	2.7		10 k	sk	sw.		inap.	inap.	cloudy	E. W. McGann
Roseburg, Oregon	29.63	752.6	30.20	767.1	36.5	2.5	89	s.	1	0.4			10 s		s.	0.00	1.5	threatening	J. J. Nanry.
Sacramento, California	30.19	766.8	30.27	768.8	31.0	— 0.6	88	n.	3	1.3		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.65	753.1	30.29	769.4	25.1	— 3.8	96	e.	6	2.7			10 s			0.19	4.8	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.82	757.4	29.85	758.2	10	— 8.9	100	ne.	18	8.0			10 n			0.20	6.6	sleeting	A. P. Leavitt.
St. Paul, Minnesota	29.30	744 2	30.25	768.3	11.0	—11.7	80	se.	1	0.4			10 s			0.01	0.3	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.16	740.7	30.14	765.5	— 6	—21.1	79	sw.	.6	2.7		0	0			0	0	clear	O. B Dilley.
Salt Lake City, Utah	25.59	650.0	30.16	766.1	16	— 8.9	54	calm	0	0			10 s			0	0	cloudy	J. Craig.
San Antonio, Texas	29.32	744.7	30.05	763.3	46.0	7.8	100	ne.	5	2.2			10 n			0.03	0.8	light rain	T. J. Kenan.
San Diego, California	30.07	763 8	30.14	765.5	44.1	6.7	80	e.	4	1.8		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.66	753.4	30.38	771.6	21.3	— 6.9	80	s.	4	1.8			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.52	775.2	30.55	776.0	26.0	— 3.3	88	ne.	15	6.7			10 s			0	0	cloudy	B. A. Blundon.
San Francisco, California	30.17	766.3	30.24	768.1	41	5.0	87	nw.	2	0.9		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	22.97	583.4	30.02	762.5	24	— 4.4	76	sw.	6	2.7			10 n		sw.	0.09	2.3	light snow	R. U. Jones.
Savannah, Georgia	30.23	767.8	30.33	770.4	47	8.3	83	n.	7	3.1			10 n		s.	0.05	1.3	light rain	H. W. Ford.
Shaw, Fort, Montana	26.24	666.5	30.10	764.5	14	—10.0	93	calm	0	0			10 s			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.91	759.7	30.16	766.1	37	2.8	100	ne.	4	1.8			10 s		ne.	0.70	17.8	threatening	E. N. Meekins.
Sill, Fort, Indian Territory	28.76	730.5	30.10	764.5	38	3.3	86	s.	8	3.6			10 s			inap.	inap.	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.08	611.6	29.94	760.5	31.5	— 0.3	90	w.	4	1.8		0	4 n			0.05	1.3	light snow	N. D. Lane.
Sitka, Alaska	30.36	771.1	30.43	772.9	26	— 3.3	64	ne.	6	2 7		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.64	752.8	30.14	765.5	33.0	0.6	78	e.	6	2.7			10 s			0.05	1.3	cloudy	J. B. Campbell.
Smithville, North Carolina	30.30	769.6	30.34	770.6	34	1.1	88	ne.	12	5.4			10 s		ne.	0.01	0.3	threatening	O. Parker.
Spokane Falls, Wash. Ter.	27.91	708 9	30.05	763.3	25	— 3.9	92	calm	0	0			10 s			0.02	0.5	cloudy	H. Clifford.
Springfield, Illinois	29.57	751.1	30.30	769.6	27	— 2.8	77	se.	7	3.1			10 s			0.10	2.5	cloudy	T. B. Jennings.
Springfield, Missouri	28.66	728.0	30.18	766.6	31.5	— 0.3	83	se.	8	3.6			10 s			0.05	1.3	cloudy	J. H. Bryce.
Starkville, Miss	29.72	754.9	30.22	767.6	40	4.4	89	ne.	7	3.1			10 s			0.40	10.2	cloudy	C. Dill.
Stevenson, Fort, Dakota	28.13	714.5	30.19	766.8	— 1	—18.3	72	calm	0	0			10 s			0	0	cloudy	W. Burrows.
Stockton, Fort, Texas	26.91	683.5	30.05	763.3	34	1.1	65	sw.	5	2.2		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass	30.52	775.2	30.58	776.7	16.0	— 8.9	74	nw.	10	4.5		8 k	0	w.		0	0	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.17	690.1	30.00	762.0	38.5	3.0	94	calm			0		10 n			0.15	3.8	light rain	J. T. Fitzgerald.
Toledo, Ohio	29.63	752.6	30.37	771.4	20	— 6.7	70	calm	0	0		6 cs	0	w.		0.01	0.3	fair	A. Buell.
Tucson, Arizona	27.56	700.0	30.06	763.5	42	5.0	83	nw.	1	0.4			10 s			0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.08	753.9	30.07	763.8	31	— 0.6	88	calm	0	0			10 s			inap.	inap.	cloudy	J. Daly.
Verde, Fort, Arizona					30.5	— 0.8	81	nw.			1	0	0			0.12	3.0	clear	D. Brooks.
Vicksburg, Mississippi	29.90	759.4	30.17	766.3	43.0	6.1	86	ne.	1	0.4			10 s		ne.	0.17	4.3	cloudy	James Kenealy.
Visalia, California	29.86	758.4	30.25	768.3	23.0	— 5.0	84	se	3	1.3		0	0			0	0	clear	O. D. Stewart
Washakie, Fort, Wyoming	24.28	616.7	30.07	763.8	— 5.9	—21.1	86	s.	1	0.4		0	0			0	0	clear	T. M. Ambler.
Washington, D. C.	30.43	772.9	30.55	776.0	21.2	— 6.0	82	ne.	3	1.3			10 s			0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.88	657.3	30.02	762.5	10.5	—11.9	80	ne.	7	3.1			fg.			0	0	dense fog	F. H. Brandenburg.
Williamsport, Pa	29.87	758.7	30.50	774.7	13.5	—10.3	91	calm	0	0			10 n					light snow	B. F. Hough.
Wilmington, N. Carolina	30.29	769.4	30.35	770.9	39	2.2	89	ne.	9	4.0			10 s		e.	0.30	7.6	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.60	650.2	30.14	765.5	8	—13.3	69	sw.	8	3.6		0	3 s		w.	0	0	clear	J. Grover.
Yankton, Dakota	28.76	730.5	30.18	766.0	12	—11.1	64	se.	2	0.9			10 s			0	0	cloudy	J. H. Attfield.
Yuma, Arizona	29.90	759.4	30.05	763.3	41.1	5.1	73	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6			53.0	11.7	76	sw.	1	0.4		4 k	0	w.		0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.10	764.5	30.11	764.8	72	22.2	77	n.	3	1.3		0	0			0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.03	762.7	30.03	762 7	78	25.6	86	e.			2	5 ck	3 s	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Colombia	29.39	746.5	29.95	760.7	77	25.0	89	s.			1	5 ck	1 s	calm	calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74.8	23.8	92	ne.			3	0	6 ks		ne.	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.10	764.5	30.16	766.1	37	2.8	82	s.			3		10 n			0.13	3.3	drizzling	W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallos.
York Factory, B. A.	30.00	762.0	30.07	763 8	—21.0	—29.4		w.	12	5.4		2 k	1 s	nw.	w.	0	0	fair	Forbes & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
BRITISH NAVAL.																		
H. M. S. Amethyst, S. 47° 42′, W. 63° 28′ †	30.09	764.3	57	13.9	89	e.			3		1							blue sky.
H. M. S. Audacious, N. 19° 44′, E. 116° 26′	29.98	761.5	68	20.0	79	n.			4-5		5	nne.				6	nne.	d. clouds.
H. M. S. Boadicea, S. 22° 16′ E. 1° 27′	30.09	764.3				se.			3		4					4	ssw.	d. clouds.
H. M. S. Champion, Singapore, Malay Peninsula	29.89	759 2	81	27.2	91	nne.			2		4	ne.				2	ne.	d. clouds.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.38	771.6	36.5	2.5	85	n.			4		9							d. clouds.
H. M. S. Comus, N. 11° 22′, W 98° 45′	29.96	761.0	78	25.6	86	ne.			2		4	ne.				1	ne.	d. clouds.
H. M. S. Constance, N. 1° c3, W. 29° 55′	29.92	760.0	82	27.8		ese.			4		5	ese.				2	ese.	d. clouds.
H. M. S Curacoa, Yokohama, Japan	29.87	758.7	46.5	8.1	77	nw.			1		4	nw.						d. clouds.
H. M. S. Crocodile N. 32° 55′. E. 27° 52′			62	16.7	77	wnw.			4-5		2					3	nw.	blue sky.
H. M. Dock-Yard, Bermuda, W. I.	30.27	768.8	62	16.7	77	wnw.			1		6	wnw.						d clouds.
H. M. S. Dryad, N. 16° 40′ E. 96° 10′	29.91	759.7	78	25.6		calm			0		5	nw.						d. clouds.
H. M. S. Eclipse, N. 7° 36′ E. 77° 52′	29.80	756.9	79	26.1		nne.			3-4		3					5	ne.	d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.85	758.2	76	24.4	90	ne.			3									
H. M. S. Espeigle, S. 33° 51′, E. 151° 14′	30.00	762.0	71	21.7	85	ne.			3		0							blue sky.
H. M. Fawn. S. 24° 00′, E. 5° 20′	30.03	762.7	72.5	22.5	87	se.			3		6	se.				2	se.	d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.14	765.5	42	5.6	75	calm			0		8							misty.
H. M. S. Gannet, S. 34° 20′, W. 72° 30′	29.91	759.7	64	17.8	78	sw.			4		0					2	sw.	blue sky.
H. M. S Heroine, S. 13° 50′, W. 32° 25′	29.91	759.7	79	26.1	86	e.			3		3	e.				2	ese.	showery
H. M. S. Himalaya, N. 35° 52′, E. 24° 13′	29.72	754.9	66	18.9	94	sw.			3-4		5					.2	wsw.	d. clouds.
H. M. S. Iron Duke, N. 12° 47′, E. 44° 58′	30.05	763.3	81	27.2	82	se.			2-3		1	ese.				2	s.	blue sky.
H. M. S. Kingfisher, Callao Bay, Peru	29.96	761.0	66	18.9		sse.			1		7							misty.
H. M. S. Lark, S. 34° 38′, E. 175° 62′	30.04	763.0	67.3	19.6	92	e.			1		3					3	n.	misty.
H. M. S. Magpie, N. 34° 41′ E. 135° 12′	30.07	763.8	43.2	6.2	71	wnw.			1		7					2	ese.	misty.
H. M. S. Monarch, Port Said, Egypt	29.65	753.1	65	18.3	73	wsw.			6-7		10							squally.
H. M. S. Mutine, N. 4° 20′, W. 123° 27′	29.94	760.5	76.5	24.7		e.			1		7					1	e.	d. clouds.
H. M. S. Rocket, Valdivia, Chili	29.89	759.2	58	14.4	100	calm			0		1?							showery.
H. M. S. Serapis, Bombay, India	29.90	759.4	79	26.1	70	nw.			1		3							d. clouds.
H. M. S. Superb, N. 36° 50′, E. 28° 19′ *	29.63	752.6	66	18.9	64	w.			2		7	n.						d. clouds.
H. M. S. Swiftsure, S. 5° 13′, W. 81° 10′	30.04	763.0	67	19.4	94	calm			0		4					2	s.	d. clouds.
H. M. S. Sylvia, Point Angosto	29.82	757.4	48.7	9.3	85	var.			2-4		10							raining.
H. M. S. Tourmaline, Bombay, India	29.93	760.2				wsw.			2		3							d. clouds.
H. M. Tyne, N. 45° 52′, W. 7° 32′	30.04	763.0	53	11.7	73	wnw.			4-5		8	wnw.				4	wsw.	showery.
H. M. S. Woodlark, Bushire, Persia	30.04	763.0	67.5	19.7	73	calm			0		3							d. clouds.
PORTUGUESE NAVAL																		
Tamega, Macao, China	30.15	765.7	63.5	17.5	57	n.			3		0			0	0			blue sky.
SWEDISH NAVAL.																		
Vanadis, N. 43° 21′, E. 15° 51′	29.68	753.8	56.1	13.4	88	ene.			3		10							raining.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla*	30.12	765.0	55	12.8	86	ne.	3	1.3			10		ne.	0.17	4.3			cloudy.
Navy Yard, Portsmouth, N. H*	30.53	775.4	13	—10.6	?	nw.	5	2.2			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.89	759.2	39	3.9	75	n.			1		2		w.	0	0			clear.
Adams, Sitka, Alaska†	30.46	773 7	23	— 5.0	86	ene.			4		0							clear.
Alaska, Mare Island, Cal	30.13	765.3	37	2.8	90	se.			1		0			0	0			clear.
Alliance, Cienfuegos, Cuba, W. I	30.13	765.3	73	22.8	95	ne.			2		0			0	0	sm'h		clear.
Brooklyn, Keel Point, Patagonia*	29.81	757.2	57	13.9	93	e.	3	1.3			5		calm	0	0	sm'h		fair.
Colorado, New York, N. Y	30.65	778.5	25	— 3.9	100	ne.	2	0.9			10			0	0			overcast.
Enterprise, N. 35° 45′, W. 48° 40′*	30.19	766.8	59	15.0	94	nne.			4		10		calm			sm'h		cloudy
Essex, Callao, Peru	29.93	760.2	67	19.4	90	sse.			1		5							fair.
Franklin, Norfolk, Va	30.45	773.4	32	0.0	?	ne.	6	2.7			10		calm					snowing.
Galena, Montevideo, Uruguay*	30.04	763.0	67	19.4	78	sse.			2		5		se.			long	se.	fair.
Hartford, S. 13° 43′, W. 77° 38′*	29.91	759.7	71	21.7	95	sse.			3		2					sm'h	s.	clear.
Independence, Mare Island, Cal	30.23	767.8	33	0.6	90	ese.			2		0			0	0			clear.
Iroquois, Callao, Peru	29.95	760.7	66	18.9	94	se.			2		8							cloudy.
Jamestown, Boston, Mass	30.52	775 2	20	— 6.7	100	w.			2		10							cloudy.
Juniata, Gibralter, Mediterranean*	30.24	768.1	60	15.6	87	w.			3		5		wnw.	sli't	sli't			drizzling.
Kearsarge, Port of Spain, Trinadad, W. I	30.02	762.5	76	24.4	95	calm			0		0					sm'h		clear.
Lackawanna, N. 15° 25′ W. 140° 25′*	30.00	762.0	75	23.9	85	e.			2		5		e.			sm'h	e.	fair.
Lancaster, Genoa, Italy	29.62	752.3	50	10.0	100	n.			2		10		n.					light rain.
Michigan, Erie, Pa	30.24	768.1	28	— 2.2	77	ne.			2		10							cloudy.
Minnesota, New York, N. Y	30.55	776.0	24	— 4.4	100	nne.	1	0.4			10							cloudy.
Monocacy, Nagasaki, Japan	30.18	766.6	42	5.6	83	ne.			1		5		wsw.					fair.
New Hampshire, Newport, R. I	30.56	776.2	25	— 3.9	?	n.			2		10		calm			sm'h		overcast.
Nipsic, Lisbon, Portugal	30.31	769.9	59	15.0	59	n.			5		2							clear.
Onward, Callao, Peru†	30.08	764.0	66	18.9	94	sse.			2		5		n.					fair.
Palos, Tientsin, China*	30.60	777.2	9	—12.8	100	n.			2		0							clear.
Pensacola, N. 4° 11′, W. 80° 31′	29.82	757.4	78	25.6	86	wsw.			3		8		wsw.	light	light	light	wsw.	squally.
Portsmouth, Boston, Mass	30.55	776.0	17	— 8.3	?	wnw.			2		10							cloudy.
Powhatan, Boston, Mass	30.51	774.9	6	—14.4	100	w.			1		2?							fair.?
Quinnebaug, Genoa, Italy	29.65	753.1	49	9.4	85	nne.			2		10		calm					rainy.
Ranger, N. 24° 40′, W. 118° 16′*	30.15	765.8	59	15.0	59	n.			3		2		n.	0	0	long	n.	fair.
Richmond, Hong-Kong, China*	30.06	763.5	63	17.2	71	calm			0		0			0	0			clear.
Saratoga, New York, N. Y	30.55	776.0	22	— 5.6	60	ne.			3		10		ne.	0	0			overcast
St. Louis, League Island, Pa	30.52	775.2	23	— 5.0	86	ne.			2		10			0	0			cloudy.
Tennessee, Basse-Terre, St. Kitts, W. I*	30.11	764.8	82	27.8	87	ne.	12	5.4			2		ne.	0.14	3.6	sm'h		fair.
Vandalia, Samana Bay, San Domingo, W. I*	30.14	765.5	76	24.4	90	nne.			2		2		e.					fair.
Wabash, Boston, Mass	30.55	776.0	15	— 9.4	64	w.	2	0.9			5		w.	0	0			fair.
Wachusetts, Mare Island, Cal	30.15	765.8	39	3.9	56	se.			1		0							clear.
Wyandotte, Washington, D. C	30.55	776.0	32	0.0	89	nw.			1		5		nnw.	0	0			fair.
Yantic, N. 9° 58′, W. 81° 09′	30.07	763.8	74	23.3	95	n.			4		10		n.			long	n.	cloudy.
MERCHANT MARINE.																		
S. S. Grecian, Havre Roads, France*	29.82	757.4	47	8.3	85	w.			4		8		w.	8 h'r	8 h'r	sm'h		cloudy.
S. S. Nova Scotian, N. 48° 44′, W. 48° 21′	29.54	750.3	19	— 7.2		w.			5		10		w.			long	wnw.	snowing.
S. S. Scandinavian, N. 54° 18′, W. 24° 16′	28 93	734.8	47	8.3		wsw.			6		3		ese.	2 h'r	2 h'r	high	wsw.	d. clouds.
S. S. British Crown, N. 47° 31′, W. 31° 06′ †	29.47	748.8	50	10.0		wsw.			7		9		w.	3 h'r	3 h'r	h'vy	w.	cloudy.
S. S. Indiana, N. 51° 05′, W. 17° 08′ †	30.34	770.6	36	2.2		nnw.			4		3		nnw.	0	0	sm'h		clear.
S. S. Lord Clive, N. 40° 25′, W. 68° 10′	29.49	749.0	54	12.2	87	wsw.			6		10		sw.	rain	rain	r'gh	sw.	squally.
S. S. Ohio, Philadelphia, Pa	30.49	774.4				wnw.			2		6		w.	0	0	sm'h		fair.
S. S. Pennsylvania, N. 45° 20′, W. 50° 00′ †			22	— 5.6	100	n.			4		10							overcast.
S. S. Jason, N. 48° 27′, W. 25° 05′	29.93	760.2	25	— 3.3	88	w.			5		10		wnw.	0	0	r'gh	wnw.	squally.
S. S. Stella, N. 47° 22′ W. 44° 08′			50.0	10.0		wnw			4		6 ks					4	wnw.	cloudy.
S. S. Bolivia, Glasgow, Scotland	29.63	752.6	27	— 2.8		wnw			7		8		wnw.	2 h'r	2 h'r	8	w.	squally.
S. S. Dorian, Valencia, Spain*	29.66	753.4	46	7.8	84	sw.			3		5			0	0			fair.
S. S. Ambrose, Amazon River, Brazil†	29.66	753 4				ne.			3		2		ne.	0	0			clear.
S. S. Auckland, S. 47° 57′, W. 47° 47′	29.98	761.5	79	26.1										8 h'r	8 h'r			cloudy.
S. S. Caldew, S. 26° 32′, E. 56° 51′	30.01	762.2	53	11.7	73	n.			1		7							blue sky.
S. S. City of Agra, S. 42° 00′, W. 38° 59′	29.89	759 2	77.2	25.1	91	ene.			6		8							d. clouds.
S. S. Gordon Castle, N. 36° 08′, W. 5° 23′	29.99	761 7	57	13.9	78	se.			4		7							d. clouds.
Inchkeith, N. 18° 55′, E. 38° 52′	30.21	767.3	74	23.6	64	wnw.			5		6							d. clouds.
St. Kilda, N. 37° 20′ W. 42° 30′	30.00	762.0	72.5	22.5	67	ne.			4		3							d. clouds.
S. S. Scotia, Kantara, Turkey in Asia	30.12	765.0	59.5	15.3	82	n.			3		3							raining.
S. S. Mexico, Guaymas, Mexico†	29.67	753.6	67.9	19.9	41	sw.			7		10							drizzling.
S. S. Bothnia, N. 50° 59′, W. 18° 00′	30.08	764.0	56	13.3	81	calm			0		0							
S. S. Gallia, N. 48° 39′, W. 30° 56′	29.54	750.3	55	12.8	93	wsw.			5		7		w.	sqll's	sqll's	r'gh	cf'd	squally.
	29.40	746.7	55	12.8	62	wsw.			7		8		w.	shr's	shr's	high	w.	squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
								Force.	Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
MERCHANT MARINE—Continued.																	
S. S. Marathon, N. 42° 38′, W. 64° 20′	30.45	773.4	26	— 3.3	.....	wnw.	.....	.....	4	.....	3	.....	nw.	0	0	mod.	nw.	fine.
S. S. Parthia, N. 44° 42′, W. 45° 28′	30.02	762.5	32	0.0	90	w.	.....	.....	8	.....	5	.....	w.	10 h'r	10 h'r	high	wsw.	snow & hail.
S. S. Rhiwindda, N. 41° 27′, W. 63° 32′	.....	.....	38	3.3	.....	nw.	.....	.....	3	.....	4	.....	nw.	0	0	sm'h	.....	fine.
S. S. Canada, N. 41° 29′, W. 64° 50′	30.32	770.1	30	—1.1	.....	nw.	.....	.....	3	.....	clr	.....	nw.	0	0	sm'h	w.	covered.
S. S. France, N. 49° 43′, W. 21° 43′	.....	.....	51.8	11.0	.....	w.	.....	.....	6	.....	k	.....	w.	.....	.....	h'vy	w.	hailing.
S. S. Labradore, N. 49° 25′, W. 20° 29′	.....	.....	53.6	12.0	.....	wsw.	.....	.....	6	.....	7	.....	w.	.....	.....	h'vy	w.	
S. S. Perire, N. 46° 13′, W. 37° 12′	29.64	752.8	44.6	7	.....	wnw.	.....	.....	8	.....	10	.....	wnw.	snow	snow	h'vy	wnw.	hailing.
S. S. Ville de Marseilles, N. 31° 30′, W. 35° 15′*†	30.15	765.8	72	22.2	.....	sse.	.....	.....	3	.....	3	.....	sw.	0	0	mod.	nw.	fair.
S. S. Arizona, N. 51° 16′, W 19° 51′	29.42	747.3	53	11.7	.....	ssw.	.....	.....	6	.....	10	.....	w.	2 h'r	2 h'r	high	wnw.	raining.
S. S. Wisconsin, N. 44° 35′, W. 51° 00′	.....	.....	28	—2.2	.....	wnw.	.....	.....	6	.....	5	.....	wnw.	snow	snow	r'gh	w.	snowing.
S. S. Bohemia, Hamburg, Germany*†	29.92	760.0	.....	.....	.....	e.	.....	.....	4	.....	8	.....	.....	0	0	.....	.....	foggy.
S. S. Frisia, N. 49° 52′ W. 19° 03′	29.53	750.0	55	12.8	.....	sw.	.....	.....	7	.....	9	.....	sw.	8 h'r	8 h'r	r'gh	var.	misty.
S. S. Rugia, N. 41° 51′, W. 62° 25′	30.39	771.9	31	— 0.6	.....	nw.	.....	.....	6	.....	5	.....	wnw.	snow	snow	5	nw.	
S. S. Silesia, N. 51° 57′, E. 3° 52′ †	29.79	756.7	51.7	10.9	.....	s.	.....	.....	1–2	.....	3	.....	s.	0	0	.....	sm'h	fair.
S. S. Vandalia, Hamburg, Germany	29.98	761.5	34.0	1.1	.....	ese.	.....	.....	3	.....	10	.....	e.	.....	.....	.....	.....	hazy.
S. S. Archimedes, Rio de Janeiro, Brazil	29.78	756.4	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	.....	clear.
S. S. Hevelius, N. 30° 30′, W. 180° 20′†	30.42	772.7	64	17.8	.....	nne.	.....	.....	6	.....	4	.....	ene.	0	0	long	nw.	clear.
S. S. Ptolemy, N 10° 37′, W. 27° 14′	30.05	763.3	75.8	24.3	84	ne.	.....	.....	4	cs	8 ks	s.	.....	0	0	.....	nw.	d. clouds.
S. S. Sirius, N. 25° 20′, W. 62° 40′ *	30.20	767.1	.....	.....	.....	ne.	.....	.....	3	.....	1	.....	ne.	0	0	mod.	ne.	clear.
S. S. Bulgarian, N. 45° 15′, W. 47° 23′*	30.08	764.0	.....	.....	.....	wnw.	.....	.....	6	.....	10	.....	nw.	snow	snow	high	nw.	
S. S. Colorado, N. 30° 34′, W 80° 30 †	30.28	769.1	54	12.2	.....	nne.	.....	.....	5	.....	10	.....	nne.	rain	rain	mod.	ne.	fair.
S. S. Rio Grande, N. 25° 05′, W. 77° 20′†	30.15	765.8	76	24.4	.....	e.	.....	.....	1	.....	1	.....	ene.	0	0	mod.	ene.	clear
S. S. Archimede, Palermo, Sicily†	29.65	753.1	62	16.7	61	w.	.....	.....	3	.....	6	.....	w.	3 h'r	3 h'r	.....	.....	cloudy.
S. S. Hermod, N. 41° 20′, W. 62° 08′†	30.34	770.6	33	0.6	.....	w.	.....	.....	3	.....	4	.....	w.	snow	snow	long	w.	clearing.
S. S. Alleghany, Norfolk, Va †	30.54	775.7	30	—1.1	.....	ne.	.....	.....	4	.....	10	.....	.....	snow	snow	.....	.....	stormy.
S. S. Brooklyn, N. 47° 14′, W. 41° 31′ *	29.54	750.3	33	0.6	.....	wsw.	.....	.....	8	.....	.....	.....	w.	0	0	h'vy	w.	squally.
S. S. Dominion, N. 44° 21′, W. 61° 50′ *†	30.34	770.6	18	— 7.8	.....	wnw.	.....	.....	6	.....	2	.....	nw.	0	0	mod.	nw.	clear.
S. S. Chalmette, N. 36° 15′, W. 74° 50′ †	30.37	771.4	42	5.6	.....	ne.	.....	.....	5	.....	10	.....	ne.	2 h'r	2 h'r	sm'h	ne.	light rain.
S. S. Lone Star, N. 26° 38′, W. 85° 45′ †	30.14	765.5	74	23.3	.....	sse.	.....	.....	3	.....	7	.....	s.	1 h'r	1 h'r	mod.	se.	squally.
S. S. Denmark, N. 43° 47′, W. 43° 36′ †	29.93	760.2	39	3.9	.....	nw.	.....	.....	8	.....	5	.....	nw.	rain	rain	h'vy	nw.	squally.
S. S. Erin, Liverpool, Eng	.....	.....	42	5.6	.....	ssw.	.....	.....	9	.....	10	.....	.....	0	0	.....	.....	overcast.
S. S. Greece, N. 42° 00°, W 63° 00′	30.39	771.0	27	—2.8	.....	wnw.	.....	.....	6	.....	9	.....	wnw.	0	0	mod.	wnw.	threatening.
S. S. Helvetia, N. 51° 30′, W. 10° 15′	29.46	748.3	49	9.4	.....	sw.	.....	.....	6	.....	10	.....	wsw.	hail	hail	long	wnw.	overcast.
S. S. Holland, N. 48° 49′, W. 22° 20′	29.49	749.0	54	12.2	.....	sw.	.....	.....	7	.....	8	.....	sw.	hail	hail	h'vy	wsw.	overcast.
S. S. The Queen, N. 41° 20′, W. 56° 48′	30.25	768.3	35	1.7	.....	nw.	.....	.....	5	.....	8	.....	nw.	snow	snow	r'gh	nw.	squally.
S. S. Santiago, N. 19° 40′, W. 77° 44′	30.23	767.8	79	25.6	91	e.	.....	.....	3	.....	2	.....	e.	0	0	mod.	e.	fine.
S. S. City of Alexandria, N. 36° 05, W. 75° 04′ †	30.34	770.6	43	6.1	100	nne.	.....	.....	4	.....	10	.....	ne.	6 h'r	6 h'r	mod.	n.	rainy.
S. S. City of Merida, Vera Cruz, Mexico †	29.91	759.7	77.0	25.0	.....	se.	.....	.....	3	.....	0	.....	.....	0	0	light	n.	fine.
S. S. City of Washington, N. 21° 20′, W. 89° 38′†	30.18	766.6	76	24.4	.....	calm	.....	.....	0	.....	fg.	.....	e.	0	0	sm'h	.....	fine.
S. S. Alpin. N. 24° 50′, W. 83° 20′	30.11	764.8	74	23.3	.....	e.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	sm'h	fair.
S. S. America, N. 49° 37′, W. 20° 20′ *	29.54	750.3	53.5	11.9	97	sw.	.....	.....	6–7	.....	9	.....	sw.	2 h'r	2 h'r	h'vy	var.	squally.
S. S. Braunschweig, Buenos Ayres, Argentine Rep.	30.02	762 5	75.0	23.9	68	s.	.....	.....	2	.....	.....	.....	.....	0	0	light	sw.	clear.
S. S. Donau, N. 41° 56′, W. 56° 44′	30.33	770.4	.....	.....	.....	nw.	.....	.....	5.6	.....	8	.....	nw.	snow	snow	r'gh	wnw.	squally.
S. S. Hohenstaufen, S. 19° 58′ W. 39° 01′	29.94	760.5	82.4	28.0	.....	nne.	.....	.....	4	.....	8	.....	nne.	0	0	mod.	nne.	covered.
S. S. Main, N 47° 34′, W. 33° 10′	29.53	750.0	45	7.2	.....	w.	.....	.....	9	.....	6	.....	w.	rain	rain	hv'v	w.	squally.
S. S. Oder, N. 49° 53′, W. 5° 35′	29.90	759.4	51.8	11.0	.....	nw.	.....	.....	3-4	.....	2	.....	wnw.	1 h'r	1 h'r	long	wnw.	fair.
S. S. Sailer, Southampton, Eng	.....	.....	.....	.....	.....	w.	.....	.....	2	.....	2	.....	.....	0	0	.....	.....	fair.
S. S. Strassburg, N. 16° 02′, W. 25° 34′	30.08	764.0	72	22.2	80	ne.	.....	.....	3	.....	5	.....	ne.	0	0	sm'h	ne	fair.
S. S. Belgic, N. 34° 28′, E. 160° 26′ *†	29.97	761.2	54	12.2	55	nw.	.....	.....	6	.....	8?	.....	nw.	0	0	r'gh	wnw.	cloudy.†
S. S. Coptic, N. 40° 53′, E. 159° 16′	29.81	757.2	30.5	2.5	66	w.	.....	.....	6	.....	8	.....	w.	rain	rain	r'gh	w.	hailing.
S. S. Gaelic, N. 34° 15′, E 137° 46′	29.99	761.7	52	11.1	100	w.	.....	.....	5	.....	5	.....	nw.	0	0	sm'h	.....	fair.
S. S. Oceanic, San Francisco, Cal †	30.32	770.1	37	2.8	62	nw.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. City of Augusta, Savannah, Ga †	30.31	769.9	.....	.....	.....	nne.	.....	.....	4	.....	10	.....	.....	hv'y	h'vy	.....	.....	
S. S. Willamette, Seattle, Wash. Ter†	29.99	761.7	36	2.2	90	ssw.	.....	.....	2	.....	10	.....	s.	0.06	1.5	.....	.....	cloudy.
S. S. Oregon, N. 38° 32′, W. 123° 33′†	30.28	769.1	49	9.4	93	n.	.....	.....	2	.....	0	.....	.....	.....	.....	light	wnw	clear.
S. S. Ancon, N. 35° 13′, W. 120° 54′†	30.15	765.8	46	7.8	77	e.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. City of Chester, San Francisco, Cal*†	30.19	766.8	42	5.6	83	nw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Dakota, Seattle, Wash. Ter *†	29.96	761.0	34	1.1	?	calm	.....	.....	0	.....	10	.....	s.	snow	snow	sm'h	.....	cloudy.
S. S. G. W. Elder, San Francisco, Cal †	30.20	767.1	41	5.0	82	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Orizaba, N. 37° 12′, W. 119° 40′ *†	30.16	766.1	50	10.0	52	nnw.	.....	.....	8	.....	0	.....	.....	0	0	r'gh	nnw.	clear.
S. S. Queen of the Pacific, Portland, Oregon†	30.05	763.3	.....	.....	.....	se.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	.....	overcast.
S. S. State of California, Portland, Oregon †	30.08	764.0	40	4.4	100	s.	.....	.....	1	.....	10	.....	.....	0	0	.....	.....	overcast.
S. S. Victoria, San Francisco, Cal*†	30.22	767.6	40	4.4	.....	sse.	.....	.....	2	.....	2	.....	ssw.	.....	.....	.....	.....	rainy.
S. S. City of New York, N. 21° 49′, W 156° 51′†	29.98	761.5	73	22.8	63	n.	.....	.....	3	.....	2	.....	n.	0	0	h'vy	nw.	clear.
S. S. City of Pekin, N. 30° 27′, W. 149° 46′ †	29.69	754.1	62	16.7	66	sw.	.....	.....	6	.....	10	.....	sw.	.....	.....	mod.	sw.	squally.
S. S. City of Rio de Janeiro, N. 34° 56′, W. 121° 10′	.....	.....	53	11.7	86	e.	.....	.....	3	.....	4	.....	nw.	0	0	cross	nw.	fine.
S. S. City of Sydney, Sydney, N. S. W*	30.06	763.5	77	25.0	82	ne.	.....	.....	3	.....	5	.....	ne.	0	0	sm'h	.....	cloudy.
S. S. City of Tokei, N. 22° 18′, E. 115° 03′†	30.15	765.8	62	16.7	100	ne.	.....	.....	6	.....	8?	.....	ne.	0	0	sm'h	ne.	clear!
S. S. Coilma, N. 24° 05′ W. 111° 36′†	30.08	764.0	62	16.7	88	nw.	.....	.....	6	.....	7	.....	nw.	0	0	mod.	nw.	cloudy.
S. S. Colon, N. 19° 30′, W. 74° 17′ †	30.10	764.5	80	26.7	.....	ne.	.....	.....	4	.....	.....	.....	ne.	0	0	small	ene.	clear.
S. S. Grenada, La Libertad, San Salvador, C.A †	29.94	760.5	77	25.0	91	ne.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. San José, N. 13° 30′ W. 89° 28′*†	29.90	759.4	.....	.....	.....	wnw.	.....	.....	4	.....	0	.....	.....	0	0	mod.	wsw.	
S. S. Zealandia, Sydney, N. S. W*	29.98	761.5	72	22.2	90	n.	.....	.....	4	.....	1	.....	s.	.....	.....	.....	.....	rainy.
S. S. Muriel, off Tobago, W. I*	30.06	763.5	80	26.7	.....	e.	.....	.....	2	.....	2	.....	.....	0	0	sm'h	.....	fair.
S. S. Caracas, La Guayra, Venezuela †	30.03	762.7	77	25.0	77	wnw.	.....	.....	1	.....	2	.....	ene.	0	0	mod.	nne.	fine.
S. S. Claudius, N. 14° 50′, W. 76° 00′†	30.15	765.8	80.2	26.8	87	e.	.....	.....	4	.....	3	.....	e.	½ h'r	½ h'r	short	ne.	fair.
S. S. Belgenland, N. 49° 55′, W. 12° 50′ †	.....	.....	54	12.2	74	sw.	.....	.....	6	.....	8	.....	wsw.	2 h'r	2 h'r	h'vy	var.	hazy.
S. S. Nederland, N. 43° 14′ W. 56° 52′†	30.32	770.1	30	—1.1	89	w.	.....	.....	6	.....	8	.....	w.	1 h'r	1 h'r	mod.	wnw.	cloudy.
S. S. Pennland, N. 45° 09′, W. 52° 22′	30.08	764.0	25	—3.9	100	w.	.....	.....	7	.....	9	.....	wnw.	snow	snow	short	wsw.	squally.
S. S. Rhynland, Jersey City, N. J †	30.37	771.4	25	—3.9	88	ene.	.....	.....	5	.....	8	.....	ene.	.....	.....	.....	.....	overcast.
S. S. Wiesland, N. 49° 46′, W. 11° 03′	.....	.....	51	10.6	.....	sw.	.....	.....	4	.....	10	.....	w.	rain	rain	long	w.	light rain.
S. S. Leerdam, N. 50° 10′, W. 10° 09′ *	29.89	759.2	50.5	10.3	89	wsw.	.....	.....	6	.....	8	.....	sw.	0	0	long	w.	cloudy.
S. S. Maas, N. 49° 44′ W. 5° 31′	29.87	758.7	49.1	9.5	.....	n.	.....	.....	4	.....	6	.....	s.	0	0	3	w.	fair.
S. S. Schiedam, N. 41° 34′, W. 63° 33′	30.42	772.7	39.6	4.2	76	nw.	.....	.....	5	.....	7	.....	nw.	0	0	sm'h	nw.	cloudy.
S. S. W. A. Scholten, New York, N. Y.	30.09	779.5	28.0	—2.2	88	se.	.....	.....	4	.....	10	.....	.....	snow	snow	.....	.....	snowing.
S. S. State of Florida, N. 42° 41′, W. 57° 46′	30.14	765.5	32	0.0	.....	w.	.....	.....	6	.....	7	.....	w.	snow	snow	h'vy	.....	cloudy.
S. S. Iowa, N. 49° 12′, W. 16° 36′	.....	.....	56	13.3	.....	wsw.	.....	.....	5	.....	9	.....	sw.	4 h'r	4 h'r	r'gh	w.	cloudy.
S. S. Plantyn, N. 48° 58′, W. 19° 44′	29.68	753.9	.....	.....	.....	.....	.....	.....	6	.....	4	.....	sw.	3½ h'r	3½ h'r	r'gh	wsw.	
S. S. Adriatic, N. 45° 27′, W. 41° 10†	29.83	757.7	41	5.0	.....	nw.	.....	.....	8	.....	7	.....	wnw.	3 h'r	3 h'r	r'gh	nw.	showery.
S. S. Lepanto, N. 45° 03′, W. 38° 00′*	29.75	755.6	41	5.0	.....	w.	.....	.....	9	.....	9	.....	w.	rain	rain	h'vy	wnw.	rain & hail.
S. S. Murengo, N. 50° 52′, W. 15° 00′*	29.50	749.3	.....	.....	.....	w.	.....	.....	7	.....	10	.....	w.	6 h'r	6 h'r	high	w.	squally.
S. S. Otranto, N. 51° 14′, W. 21° 08′	29.48	748.8	50	10.0	.....	ssw.	.....	.....	7	.....	8	.....	w.	.....	.....	long	w.	cloudy.
S. S. Romano, N. 42° 21′, W. 67° 34′*†	30.36	771.1	27	— 2.8	.....	n.	.....	.....	3	.....	4	.....	w.	4 h'r	4 h'r	mod.	sw.	fair.
S. S. Salerno, New York, N. Y.	30.55	776.0	28	—2.2	.....	ene.	.....	.....	4	.....	10	.....	e.	3 h'r	3 h'r	.....	.....	cloudy.
S. S. Catherine Whiting, Philadelphia, Pa †	30.49	774.4	.....	.....	.....	ne.	.....	.....	1	.....	.....	.....	ne.	0	0	.....	.....	
S. S. Norman, N. 39° 59′, W. 75° 08′ †	30.51	774.9	.....	.....	.....	ne.	.....	.....	1	.....	.....	.....	ne.	0	0	.....	.....	cloudy.
S. S. Saxon, New York, N. Y †	30.48	774.2	17	—8.3	.....	w.	.....	.....	3	.....	2	.....	.....	0	0	.....	.....	fine.
MISCELLANEOUS.																		
Bg. Abbie Clifford, Havana, Cuba, W. I†	30.14	765.5	69	20.6	.....	ese.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	
Schr. Abbie H. Gheen, Spring Wood Mills, S. C†	30.39	771.9	38	3.3	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	.....	foggy.
Bk. Adelaide, S 18° 59′, W. 36° 53′*†	30.04	763.0	83	28.3	.....	ne.	.....	.....	5	.....	1	.....	ne	0	0	mod.	ne.	clear.
Bk. Alcira, N. 39° 19′, W 73° 48′	30.49	774.4	.....	.....	.....	e.	.....	.....	3	.....	10	.....	e.	0	0	mod.	ene.	
Bk. Alpha, Demerara, British Guiana, S. A*†	29.96	761.0	82	27.8	.....	ene.	.....	.....	4	.....	2	.....	.....	2 h'r	2 h'r	.....	.....	fair.
Schr. Anna A. Holton, Tampico Bar, Mexico†	30.01	762.2	73	22.8	.....	.....	.....	.....	.....	.....	10	.....	.....	0	0	mod.	se.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Bk. Anna Thormann, S. 20° 34′, W. 3° 04′	30.11	764.8	74.1	23.4	74	ese.			5		9 k		ese.	inap.	inap.	mod	se.	cloudy.
S. S. Antonio Lopez, Barcelona, Spain	29.73	755.1	54	12.2	61	e.			3		7			0	0			fair.
Bk. Aquidneck, N. 36° 56′, W. 76° .0′ *†	30.60	777.2	56	13.3		var.							nne.	snow	snow	light	n.	snowing
Bgt. Arthur, S. 20° 06′, W. 32° 12′*†	30.12	765.0				ene.			4		5		ene.	0	0	mod.	e.	
Schr. Annie Lewis, N. 31° 02′, W. 71° 43′†	30.39	771.9	68	20.0		e.			1		5		e.	1 h'r	1 h'r	mod	ne.	fair.
Bk. B. F. Watson, Hong Kong, China†	30.16	766.1	66	18.9		ne.			2		3		ene.	0	0			clear.
Bg. Belle of the Bay, Galveston, Texas †	30.03	762.7				e.			3		0			0	0			foggy.
S. Benledi, N 32° 30′, W. 67° 45′ *	30.34	770.6	69	20.6	85	ne.			1–2		8		w.	0	0	sm'h		cloudy.
Bkt. Bonny Doon, N. 32° 17′, W. 15° 35′*†	30.20	707.1				ne.			5		5		ene.	0	0	long	nne.	
Bk. Bremen, N. 34° 18′, W. 19° 20′*	30.31	769.9				ene			5		4		ene.	0	0	long	var.	fair.
S. S. Buiswell, Liverpool, Eng. †*	29.72	754.9	49	9.4		se.			3		fg.			2 h'r	2 h'r	sm'h		foggy.
Bk. Champion, Philadelphia, Pa			42	5.6		ene.			4		8		e.	0	0			
Bk. Commerce, S. 35° 30′, W. 23° 27′†	30.24	768.1	63	17.2		se.			3		2		se.	0	0	h'vy	nw.	fine.
S. S. D. J. Foley, N. 17° 36′, W. 75° 17′*†	30.07	763.8	81	27.2	83	e.			2		8		ne.	0	0	mod.	ne.	cloudy.
S. E. B. Sutton, N. 39° 00′, W. 56° 40′ †	30.30	769.6	47	8.3	100	nnw.			5		10					r'gh	var.	rainy.
Bk. E. D. Bigelow N. 42° 24′, W. 20° 00′ *†	30.15	765.8				sw.			4		8		w.	0	0	long	wnw.	cloudy.
Schr. Edith R. Seward, Wilmington, N C†	30.27	768.8	36	2.2		nne.			1		7		n.	0	0			
Bk. Edmund Phinney, S. 14° 55′, W. 34° 28′ †	30.03	762.7	86	30.0		se.			1		6			sli't	sli't	mod.	e.	fair.
S. E. J. Spicer, N. 52° 00′, W. 5° 25′	29.76	755.9	52	11.1	100	w.			5		5		wsw.	rain	rain	mod.	sw.	fair.
Bk. E. L. Pettingill, S. 42° 58′, W. 113° 26′ *†	30.40	772.1	62	16.7		se.			2		5		sse	0	0	sm'h	sw.	
Bk. Essex, Majambo, Madagascar*†	29.70	754.4	78	25 6		nw.			9					rain	rain	h'vy	nw.	stormy.
Schr. F. E. McDonald, Jacksonville, Florida†	30.21	767.3	51	10.6		se.			1		fg.							
U.S. F. C. S. S. Fish Hawk, Washington, D. C †...	30.40	772.1	27	—2.8		nne.			1		10		calm					cloudy.
S. S. Foscolia, Dunkirk, France						sw.			3		10			0	0			dull.
Bk. Freya, Matanzas, Cuba, W. I.						ne.			1		2		ne.	0	0			hazy.
S. Geo. Stetson, S. 7° —′, W. 33° —′ *†	30.06	763.5	80	26.7	87	ese.			4		3?		se.	0	0	sm'h	se.	cloudy ?
Bg. Gipsey Queen, N. 29° 47′ W. 66° 50′			68	20.0		e.			5		8		ese.	0	0	sm'h		overcast.
S. Grecian, N. 37° 50′, W. 63° —′†	30.34	770 6	54	12.2	78	nnw.			5		9		n.	0	0	mod.	sw.	cloudy.
Bk. Grey Eagle, S. 23° 31′, W. 41° 50′ *†	29.65	753.1				ne.			3		5		ne.	0	0	light	ne.	fine.
Bk. Hattie G. McFarland, Demerara, Brit. Guiana†*	30.09	764.3	78	25.6		nne.			5		8		e.	4 h'r	4 h'r			showery
Schr Hattie Weston, N. 15° 10′, W. 61° 00′ *†	30.18	766.6	79	26.1		ne.			3		8		ene.	0	0	mod.	e.	cloudy.
S. Hedwig, N. 49° 13′, W. 10° 14′	29.90	759.4	53.8	12.1		sw.			6		0			3 h'r	3 h'r	6	wnw.	fine.
Bk. Heinrich & Tonio, N. 37° 10′, W. 18° 44′			61	16.1		calm			0					0	0	long	w.	clear.
Schr. Isabel Alberto, Jersey City, N. J †	30.55	776.0				ne.			3		10		e.	0	0			cloudy.
Schr. James Slater, N. 32° 40′, W. 58° 56′*†	30.28	769.1	67	19.4		nne.			3		10		ne.	0	0	mod.	n.	cloudy.
Bk. Johanne, N. 26° 19′, W. 23° 24′ *†	30.15	765.8	68	20.0		ene.			5		8		ne.	6 h'r	6 h'r	sm h	ne.	fair.
Schr. John L. Thomas, N. 15° 32′, W. 63° 54′ *†	30.16	766.1				ne.			4		1		ene.	0	0	mod.	ne.	clear.
Bkt. Josephine, S. 24° 36′, W. 26° 55′†	30.12	765.0	81	27.2	70	ene.			5		8		ene.	½ h'r	½ h'r	mod.	ne.	fair.
S. S. J. W. Wilson, Sabine Light, La*†	29.99	761.7	50	10.0		ene.			2		fg.			6 h'r	6 h'r			foggy.
Light House Tender Laurel, Tampa Bay, Fla†	30.18	766.6	65	18.3		e.			1		3		e.	0	0			clear.
Bk. Louise Adelaide, N. 20° 40′, W. 94° 00′						ese.			2		0			0	0	short	n.	clear.
Bg. L. & W. Armstrong, N. 38° 57′, W. 70° 00′*†	30.52	775.2				n.			1		8		nnw.	0	0	sm'h	nnw.	cloudy.
S. S. Malabar, N. 36° 00′, W. 7° 15′						n			2		0			0	0	h'vy	nw.	clear.
Bg. Mary A. Troop, N. 39° 45′, W. 60° 00′ *†	30.30	769.6				n			6		8		nne.	2 h'r	2 h'r	r'gh	nnw.	cloudy.
Schr. Minnie A. Bonsall, Mayport, Fla †	30.30	769.6	62	16.7		n.			6									stormy.
S. M. P. Grace, S. 30° 14′, W. 22° 34′ *	30.11	764.8	78	25.6		var.			2		3		n.	0	0	sm'h	ne.	fair.
Bg. Myrtle, N. 17° 33′, W. 58° 33′*†	30.00	762.0				ene.			4		1		ene.	0	0	sm'h		fine.
Bkt. Norena, Nassau, Bahama Isls*†	30.28	769.1				nw.			2		4		nne.	6 h'r	6 h'r	mod.	ne.	squally.
Bg. O. C. Clary, N. 23° 00′, W. 74° 30′ *†	30.10	764.5	77	25 0	95	e.			3		1		e.			sm'h	ene.	clear.
Schr. Ocean Traveler, N. 35° 32′ W. 68° 20′†	30.35	770.9				n.			1		3					r'gh	n.	fair.
Bk. Ottawa, Alicante Harbor, Spain*	29.77	756.1	54	12.2		nw.			8		8		nw.	0	0			cloudy.
S. Paramita, San Francisco, Cal	30.25	768.3	37	2.8		nnw.			3					0	0			clear.
Schr. Pearl Nelson, N. 19° —′, W. 61° —′*†	30.12	765.0							6		3			0	0			
S. S. Peconic, N. 39° 42′, W. 62° 03′*†	30.34	770.6	40	4.4		nnw.			5				n.	0	0	mod.	var.	overcast.
S. S. Raleigh, N 20° 00′, W. 74° 00′*†	30.08	764.0	76	24.4		ne.			2		0			0	0	light	nne.	fine.
Bk. Reindeer, N. 15° 10′, W. 61° 00′*	30.03	762.7				ene.			4		2		ene.	0	0	mod.	ese.	
S. Rudolph, N. 42° 16′ W. 14° 38′			60.0	15.6		w.			4		4		w.	4 h'r	4 h'r	h'vy	wnw.	threatening
Schr. S. B. Hubbard, Jacksonville, Fla*†	30.30	769.6	50	10.0		calm			0		10			4 h'r	4 h'r			
Bk. Scud, N. 16° 57′, W. 56° 48′ *†	30.14	765 5	80	26.7		ene.			6		2		ese.	0	0	long	n.	fine.
Bk. Southern Belle, N. 23° 37′, W. 40° —′*†	30.10	764.5	75	23.9		ene.			4		2		e.	sh'rs	sh'rs	long	ne.	fair.
S. Sovereign of the Seas, S. 1° 44′, W. 116° 20′ *†	30.03	762.7	73	22.8	90	se.			1		9		se.	0	0	mod	se.	overcast.
Bk. Sunbeam, N. 38° 42′, W. 9° 05′*†	30.28	769.1	58	14.4	76	n.			6		0			3 h'r	3 h'r			clear.
S. S. Sunbeam, N. 40° 45′, W. 55° 17′	30.21	767.3	42	5.6	96	nw.			6		7		wnw.	½ hr	⅜ hr	6	var.	d. clouds.
S. Titan, N. 22° 51′, W. 38° 32′*†	30.18	766.6	74	23.3	86	ese.			4		3		ese.	½h'r	½h'r	cross	var.	fair.
Bk. Wandering Jew, Montevideo, Uruguay †	30.10	764.5	73	22.8		se.			3		2		se.	0	0			clear.
Bk. Winifred, N. 33° 14′, W. 59° 05′ *†	30.25	768.3				var.							ne.	0	0		sw.	cloudy.
Schr. Wm. Wiler, N. 29° 41′, W. 69° 15′†	30.26	768.6				calm			0		10		nne.	1 h'r	1 h'r	mod.	ese	threatening
Bk. Xenia, N. 24° 33′, W. 37° 48′ *†	30.26	768.6	73	22.8		e.			4		5		e.	0	0	cross	e.	fair.

International Chart I. January 16, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 17, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.20	767.0	61.9	16.6	77	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	29.99	761.7	56.1	13.4	69	nw.	.....	.....	5	.....	4	.....	.....	0.677	17.2	cloudy	Thève.
La Calle	.....	.....	29.79	756.7	57.2	14.0	63	nw.	.....	.....	6	.....	5	.....	.....	0.610	15.5	cloudy	Fonfrède.
Tunis	.....	.....	29.76	756.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.15	765.8	49.3	9.6	74	n.	.....	.....	1	.....	1	.....	.....	0.059	1.5	very fair	Pérès.
Tebessa	.....	.....	29.93	760.1	41.0	5.0	78	w.	.....	.....	5	.....	4	.....	.....	0.728	18.5	cloudy	Dognon.
Geriville	.....	.....	.....	.....	39.2	4.0	73	wnw.	.....	.....	3	.....	3	.....	.....	Inap.	Inap.	pretty fair	Lonchamp.
Laghouat	.....	.....	30.05	763.2	46.4	8.0	72	nw.	.....	.....	6	.....	0	.....	.....	0.020	0.5	clear	Abraham.
Biskra	.....	.....	29.96	761.0	58.6	14.8	41	nw.	.....	.....	6	.....	7	.....	.....	0	0	very cloudy	Malau.
Australian.																			
Melbourne, Victoria	30.15	765.8	30.24	768.1	59.0	15.0	76	se.	15	6.7	.....	.....	1	.....	.....	0.04	1.0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.66	753 3	30.24	768.1	31.5	— 0.3	79	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.49	749.1	30.31	769.8	28.4	— 2.0	88	ne.	0	0	.....	.....	9	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.32	744.8	30.24	768.1	36.7	2.6	79	calm	.....	.....	0	.....	9 s	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.91	734.2	30.22	767.6	33.8	1.0	79	s.	.....	.....	1	.....	10	.....	.....	0.205	5.2	.....	Andreas Rospini.
Hermannstadt	28.73	729.8	30.24	768.0	32.2	0.1	85	se.	.....	.....	1	.....	4	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.85	732.7	30.26	768.5	33.3	0.7	87	calm	.....	.....	0	.....	10	.....	.....	0.067	1.7	gloomy	The Staff.
Lemberg	29.28	743.8	30.35	770.9	22.6	— 5.2	52	se.	.....	.....	3	.....	3	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.83	681.5	30.26	768.6	44.2	6.8	54	calm	.....	.....	0	.....	3	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	29.85	758.1	29.97	761.1	47.5	8.6	55	ene.	.....	.....	3	.....	5	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.76	755.8	30.22	767.7	34.7	1.5	72	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Joseph Midlinszay, S. J.
Szegedin	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Karl Stancel.
Trieste	29.69	759.1	29.98	761.6	40.8	4.9	52	ne.	.....	.....	5	.....	6	.....	.....	0	0	.....	Royal Academy.
Vienna	29.56	750.7	30.31	769.9	32.0	0.0	76	calm	.....	.....	0	.....	5	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.58	751.3	29.68	753.9	46.8	8.2	89	s.	17	7.6	.....	.....	10	.....	.....	0.095	2.4	squally	W. Boswell
Armagh, Observatory	29.51	749.5	29.75	755.6	49.0	9.4	93	wsw.	14	6.3	.....	.....	10	.....	.....	.....	.....	raining	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.92	760.0	50.7	10.4	82	s.	15	6.7	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.40	746.7	29.95	760.7	47.1	8.4	91	s.	18	8.0	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth.
Bradford, Yorkshire	29.55	750.6	29.93	760.2	50.8	10.4	79	nw.	.....	.....	3	.....	6	.....	.....	0	0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	80.0	26.7	69	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington	.....	.....	.....	.....	48.0	8.9	93	sw.	.....	.....	0.6	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E	30.02	762.5	30.10	766.1	46.6	8.1	91	s	.....	.....	3	.....	8	.....	.....	blank	blank	gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.86	758.4	30.09	764.3	52.6	11.4	89	sew.	.....	.....	3	.....	0	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.47	697.7	29.69	754.1	82.0	27.8	62	e	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	Corpl. F. Milner, A. H. C.
Galway	29.65	753.1	29.69	754.1	48	8.9	93	sw.	.....	.....	3	.....	10	.....	.....	0.34	8.6	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.20	767.1	30.26	768.6	59.2	15.1	95	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Sgt. J. Norris, A. H. C.
Glasgow, Observatory	29.52	749.8	29.72	754 9	47.8	8.8	92	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.97	761 2	30.15	765.8	47.9	8.8	89	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	29.88	758.9	30.18	766.6	50.0	10.0	93	s.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	A. Collenette, F. M. S
Kew, Observatory	30.11	764.8	30.15	765.8	47.4	8.6	90	s.	19	8.5	.....	.....	10	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.78	756.4	30.04	763 0	48.5	9.2	90	sw.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.67	753.6	29.75	755.6	58.0	14.4	76	e.	.....	.....	3	.....	7	.....	.....	0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.18	766 6	30.22	767.6	73.0	22.8	85	e.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe
Oscott, St. Mary's College	29.48	748.8	30.01	762.2	48.9	9.4	89	ssw.	.....	.....	6	.....	10	.....	.....	.....	.....	threatening	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.87	758.7	30.10	764.5	48.9	9.4	93	s.	.....	.....	4	.....	9	.....	.....	.....	.....	overcast	The Staff.
Plymouth	30.02	762.5	30.10	764.5	50.6	10.3	95	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	foggy	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	.....	.....	44.8	7.1	83	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L.L. D.
Scutari Cemetery, Turkey	30.06	763.5	30.12	765.0	42.6	5.9	65	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	gloomy	W. H. Lyne.
Sheffield	29.67	753 6	29.98	761 5	48.5	9.2	89	sw.	.....	.....	3	.....	6	.....	.....	0.02	0.5	d. clouds	W. F. Cooper.
Silloth Rectory	29.77	756.1	29.80	756.9	49.0	9.4	93	sw.	.....	.....	5	.....	10	.....	.....	0.320	8.1	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.93	760.2	47.2	8.4	85	s.	25	11.2	.....	.....	10	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Stratfield Turgiss	29.83	757.7	30.05	763.3	47.3	8.5	97	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	Rev. C. H. Grimms, F. M. S.
Truro, Royal Institution	30.06	763.5	30.10	764.5	54	12.2	86	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.74	755.4	29.77	756.1	51.0	10.6	94	sew.	21	9.4	.....	.....	10	.....	.....	.....	.....	raining	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	— 5	—20.6	.....	nw.	2	0.9	.....	0	0	.....	.....	0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.39	771.9	30.43	772.9	5	—15.0	90	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. J. Cundall, C. E
Chathum, N. B*	30.38	771.6	30.46	773.7	—12	—24.4	.....	calm	0	0	.....	0	0	.....	.....	0	0	clear	G. A. Blair
Cornwall	30.04	763.0	30.26	768.6	9.9	—12.3	93	ne.	.....	.....	1	.....	10 8	.....	.....	0	0	overcast	Jas. Smith, M. A.
Dalhousie	30.35	770.9	30.41	772.4	—10.0	—23.3	.....	w.	.....	.....	1	0	0	.....	.....	0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.34	770.6	30.36	771.1	7	—13.9	83	sw.	15	6.7	.....	0	5 8 f	.....	w.	0	0	clear ?	J. McWilliams.
Fort Garry, Manitoba*	29.37	746.0	30.32	770.1	— 7	—21.7	100	n.	17	7.6	.....	.....	10 n	.....	.....	0	0	cloudy	James Stewart.
Fredericton	30.43	772.9	30.51	774.9	—17.0	—27.2	100	calm	0	0	.....	.....	.....	.....	.....	0	0	fair	Prof. Harrison, L. L. D.
Granton	28.83	732 3	30.00	762.0	22.3	— 5.4	96	se.	2	0.9	.....	.....	10 n	.....	.....	0	0	overcast	Jas. Grant.
Halifax, N. S*	30.37	771.4	30.51	774.9	8	—13.3	100	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. Allison.
Hamilton	29.52	749.8	29.93	760.2	24.7	— 4.1	100	ne.	.....	.....	2	10 cs	0	.....	ne.	0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.83	757.7	30.19	766.8	19	— 7.2	91	e.	6	2.7	.....	.....	10 8	.....	.....	Inap.	Inap.	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	30.14	765.5	30.37	771.4	— 1	—18.3	87	se.	12	5.4	.....	.....	10 n	.....	.....	0	0	cloudy	C. H. McLeod, C. E.
Ottawa	29.99	761.7	30.27	768.8	9.0	—12.8	82	n.	.....	.....	1	.....	10 8	.....	.....	0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.38	746.2	30.12	765.0	18	— 7.8	84	e.	12	5.4	.....	.....	10 n	.....	e.	0.10	2.5	light snow	Rev. R. Mosley.
Peterboro	29.30	744.2	30.10	764.5	22.4	— 5.3	72	ne.	.....	.....	4	.....	10 n	.....	.....	0	0	overcast	J. Dixon, B. A.
Port Dover, Ontario	29.24	742 7	29.97	761.2	23	— 5.0	100	ne.	7	3.1	.....	.....	10 n	.....	.....	0	0	threatening	H. Morgan.
Port Stanley, Ontario	29.28	743.7	29.96	761.0	27	— 2.8	88	e.	18	8.0	.....	.....	10 n	.....	e.	0	0	cloudy	M. Payne.
Quebec, Quebec*	30.08	764.0	30.45	773.4	— 3	—19.4	100	calm	.....	.....	0	.....	fg.	.....	.....	0	0	dense fog	Capt. Ashe, R. N
Rockliffe, Ontario*	29.73	755 1	30.25	768.3	2	—16.7	79	calm	0	0	.....	.....	10 n	.....	.....	Inap.	Inap.	light snow	W. H. McIntyre.
Saugeen, Ontario*	29.25	742.9	30.01	762.2	22	— 5.6	92	se.	10	4.5	.....	.....	10 8	.....	.....	0.15	3.8	light snow	
St. Andrews, N. B	30.40	772.1	30.45	773.4	7	—13.9	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	
St. John, N. B	30.27	768.8	30.45	773.4	9.0	—12.8	100	nw.	.....	.....	1	0	0	.....	.....	0.22	5.6	blue sky	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.16	766.1	16.5	— 8.6	.....	w.	.....	.....	7	.....	.....	.....	.....	0	0	.....	The Commandant.
Stratford	28.65	727.7	30.01	762.2	20.4	— 6.4	93	se.	6	2.7	.....	.....	10 8	.....	.....	0	0	overcast	O. J. Macgregor, M. A.
Sydney, C. B*	30.34	770 6	30.41	772.4	3	—16.1	100	sw.	17	7.6	.....	0	0	.....	.....	0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.64	752.8	30.05	763.3	28	— 2.2	84	e.	21	9.4	.....	.....	10 n	.....	e.	0	0	cloudy	Magnetic Observatory.
Windsor	30.35	770.9	30.46	773.7	1.0	—17.2	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. W. H. Butler.
Woodstock	28.82	732 3	30.01	762.2	21.7	— 5.7	99	ne.	19	8.5	.....	.....	10 8	.....	.....	0	0	hazy	Prof. Wolverton, M. A.
Yarmouth, N. S*	30.40	772.1	30.47	773.9	15	— 9.4	91	e.	2	0.9	.....	0	2 k	.....	e.	0	0	fair	Lt. F. E. Wilmot, R. A.
Cape Colony.																			
Cape St. Francis Lt. House	29.78	756.4	29.81	757.2	72.0	22.2	84	w.	19.0	8.5	.....	0	2 k	.....	.....	0	0	dense haze	John Duthie.
Springbok Fontein	27.85	707.4	.....	.....	91	32.8	60	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction Upper. From.	Clouds. Direction Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
Chinese (Sub-series).																			
Sung-shu-chwang	24.56	623.8	.....	.....	10.2	—12.1	.....	ene.	.....	.....	1	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.50	774.8	30.61	777.6	15.8	— 9.0	55	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Mission, S. J.
Zi-Ka-Wei, near Shanghai.	30.59	776.9	30.61	777.5	18.3	— 7.6	33	nw.	11.2	5.0	.....	0	0	.....	.....	0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.22	767.7	30.27	768.9	34.2	1.2	85	calm	0	0	.....	.....	10	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	30.22	767.6	30.24	768.1	32.7	0.4	100	sse.	.....	.....	2	.....	10	.....	.....	.....	.....	foggy	Overloerer Lauridsen.
Godthaab, Greenland	29.01	736.8	29.05	737 9	17.4	— 8.1	94	nnw.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	28.91	734.4	28.93	734.9	16.5	— 8 6	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	28.96	735.5	29.00	736.7	3.6	—15.8	.....	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.48	723.4	28.52	724.5	25.9	— 3.4	89	ne.	.....	.....	8	.....	10	.....	.....	.....	.....	.....	
Thorshavn	29.05	737.9	29.09	738.8	44.2	6.8	76	sw.	31	14	.....	.....	7	.....	.....	.....	.....	snowing	A. O. Thorlacius.
Vestervig	30.11	764.8	30.20	767.1	34.7	1.5	100	ssw.	.....	.....	2	.....	10	.....	.....	.....	.....	rain & sleet	Overloerer Bergh.
Upernavik, Greenland	29.16	740.6	29.21	741.8	2.1	—16.6	.....	e.	.....	.....	2	.....	3	.....	.....	.....	.....	foggy	Loerer Oesterhol.
French.																			
Agen, Normal School	29.76	756.0	30.44	773.2	38.8	3.8	100	calm	.....	.....	0	.....	fg	.....	.....	0	0	foggy	M. Labroue, Director.
Alençon, Normal School	29.74	755.3	30.29	769.3	36.0	2.2	96	s.	.....	.....	1	.....	fg	.....	ne.	0	0	foggy	M. Nicot, Director.
Arras, Engineer School	30.01	762.2	30.27	768.8	44.6	7.0	80	.....	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. Fénéon, Command't.
Avignon, Normal School	29.96	760.9	30.04	762.9	46.4	8	55	n.	.....	.....	8	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.75	755.7	30.34	770.5	37.6	3.1	100	sw.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.04	763.0	30.32	770.2	36.0	2.2	96	wnw.	.....	.....	1	.....	8	.....	.....	0.004	0.1	foggy	M. Frère Eugène Marié.
Besançon, Normal School	29.35	745.4	30.29	769.3	40.6	4.8	81	nne.	.....	.....	1	.....	10 n	.....	.....	.....	.....	raining	M. Gobin, Director.
Bordeaux, Observatory	30.08	764.1	30.36	771.1	37.8	3.2	100	se.	.....	.....	1	.....	0	.....	.....	0.008	0.2	foggy	M. Rayet, Director.
Bourges, Normal School	29.78	756.5	30.36	771.2	36.5	2.5	92	sw.	.....	.....	1	.....	fg	.....	sw.	0	0	dense fog	M. Mallet, Director.
Brest, Naval Observatory	29.96	761.0	30.21	767.2	52.5	11.4	95	sw.	.....	.....	2	.....	10	.....	sw.	0.177	4.5	.....	M. de Kermarec, Dir.
Caen, Normal School	30.24	768.0	30.32	770.0	42.1	5.6	94	ene.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch	29.95	760.8	30.28	769 2	39.4	4.1	95	nw.	.....	.....	1	.....	8	.....	n.	0	0	very cloudy	M. Judot, Director.
Charleville, Normal School	29.75	755.6	30.27	768.8	40.1	4.5	77	ssw.	.....	.....	1	.....	10	.....	.....	0.024	0.6	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.91	734 4	30.32	770.2	41.4	5.2	84	n.	.....	.....	1	.....	8	.....	.....	0	0	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.42	747.2	30.30	769.5	40.6	4.8	84	n.	.....	.....	1	.....	.....	.....	n.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.43	747 5	30.34	770.6	37.8	3.2	93	w.	.....	.....	1	.....	10 n	w.	w.	0.008	0.2	covered	Dr. Coulet, Director.
Gap, Normal School	27.51	698 7	30.11	764.7	41.0	5	84	ne.	.....	.....	3	.....	1	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, du Rhone	28.85	732.7	29.98	761.5	51.3	10.7	83	nw.	.....	.....	2	.....	2	.....	nw.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.38	746.2	30.18	766.5	41.7	5.4	73	wnw.	.....	.....	2	.....	kn	.....	nne	0.047	1.2	.....	M. Ablard, Director.
Guéret	28.72	729.4	30.36	771.1	36.5	2.5	96	w.	.....	.....	1	.....	n	.....	s.	0	0	.....	M. Delorme, Dir.
Lamballe, Normal School	29.94	760.4	30.21	767.4	47.5	8.6	83	s.	.....	.....	2	.....	5	.....	s.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.77	756.1	30.34	770 7	48.2	9.0	76	nw.	.....	.....	1	0	0	.....	.....	0.291	7.4	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.18	766.5	30.28	769.1	53.2	11.8	83	ssw.	.....	.....	2	.....	5	.....	.....	0.134	3.4	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.18	741 1	30.27	768.9	39.0	3.9	80	nnw.	.....	.....	2	8 c	0	nnw.	s.	0	0	very cloudy	M. André, Director.
Mans, Normal School	30.04	763.0	30.37	771.3	35.8	2.1	96	sw.	.....	.....	1	.....	fg	.....	.....	0	0	dense fog	M. Piboën, Director.
Marseille, Observatory	29.68	753 9	29.95	760.8	51.8	11.0	63	n.	.....	.....	2	.....	7	.....	e.	0	0	.....	M. Stephan, Director.
Montlouis	24.87	631.7	29.71	754.7	30.2	— 1.0	53	ne.	13.0	5.8	.....	.....	4	n.	.....	0	0	.....	M. Caré for Dr. Fines.
Montpellier, Normal School	29.97	761.1	30.10	764.4	52.5	11.4	59	nw.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.49	749.0	30.29	769.4	37.4	3.0	93	w.	.....	.....	1	.....	n	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	30.20	767.1	30.36	771.2	46.6	8.1	91	sse.	.....	.....	0–1	.....	10	.....	.....	.....	.....	light rain	M. Larocque, Director.
Pic-du-Midi, Summit	21.18	538.0	.....	.....	14.7	— 9.6	.....	ne.	35.3	15.8	.....	.....	1	.....	nnw.	0	0	.....	Dr. Fines, Director.
Privas, Normal School	29.09	738.9	30.19	766.8	44.6	7	60	n.	.....	.....	2-3	.....	1	.....	w	0.787	20.0	clear	M. Vaussenat.
Puy de Dôme Obs'y, Summit	25.24	641.2	.....	.....	24.8	— 4.0	100	n.	.....	.....	2	.....	10	n.	n.	0	0	covered	M. Tailleu.
Rochefort, Naval Obs'y	30.31	769.8	30.34	770.6	49.6	9.8	79	ssw.	.....	.....	1	.....	8	.....	.....	0.008	0.2	¾ covered	M. Allnard, Director.
Roche-sur-Yon, N. School	30.09	764.3	30.31	769.9	44.4	6.9	88	nw.	.....	.....	1	.....	2.	.....	sw.	0	0	¼ covered	Lt. E. Decante, Director.
Rodez, Normal School	28.10	713.7	30.31	769.8	43.7	6 5	78	nw.	.....	.....	1	.....	5	.....	nw.	0	0	.....	M. Brotier, Director.
Rouen, Normal School	30.24	768 0	30.28	769.2	30.7	2.6	61	w.	.....	.....	1	.....	1	.....	se.	0	0	clear	M. Seger, Director.
Saint Lô	.....	.....	.....	.....	44.6	7	93	sw.	.....	.....	1	.....	10	w.	.....	0	0	foggy	M. Moullot.
Saint Maur, Observatory	30.15	765 8	30.32	770.0	43.2	6.2	84	sw.	.....	.....	1	.....	5	.....	w.	0	0	cloudy	M. Delaplanche, Dir.
Toulouse, Observatory	27.68	713 1	30.38	771.7	43.3	6.3	90	nw.	.....	.....	1	.....	1	.....	w.	0	0	.....	M. Renou, Director.
Tours	30.15	765 8	30.33	770.3	41.0	5.0	90	sw.	.....	.....	1	.....	5	nw.	.....	0	0	cloudy	M. Bailland, Director.
Versailles, Observatory	29.80	757 0	30.30	769.5	43.5	6.4	88	w.	.....	.....	1	.....	0	.....	.....	0	0	hazy	M. de Tastes.
Sub-series.																			
St. Martin du Hinx	30.22	767 5	30.37	771.3	50.0	10.0	66	nw.	2.0	0.9	.....	.....	9 k; kn	w.	n.	0.146	3.7	.....	Dr. A. Bérigny, Director.
German.																			
Ansbach	28.77	730.8	30.29	769 4	35.6	2.0	97	calm	.....	.....	0	.....	10	.....	.....	0.028	0.7	.....	M. Cartier, Director.
Bamberg	29.36	745.8	30.21	767.4	34.9	1.6	82	calm	.....	.....	0	.....	10	.....	.....	0.039	1.0	.....	Prof. Jnedt.
Berlin	30.14	765.5	30.29	769.4	30.7	— 0.7	84	nw.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Dr. Hoh.
Breslau	29.75	755.7	30.29	769.3	34.7	1.5	78	nne.	.....	.....	1	.....	10	.....	.....	0	0	.....	Dr. Lensch.
Carlsruhe	29.84	757.8	30.29	769.4	40.6	4.8	90	s.	.....	.....	1	.....	10	.....	.....	0	0	foggy	Royal University Obs'y.
Cassel	29.51	749.6	30.22	767.7	37.4	3.0	98	s.	.....	.....	1	.....	10	ne.	.....	0.185	4.7	foggy	Albert Senz.
Frankfort-on-the-Main	29.91	759.8	30.30	769.7	37.2	2.9	93	e.	.....	.....	1	.....	10	.....	.....	0	0	.....	Dr. H. Möhl.
Friedrichshafen	28.80	731.5	30.30	769.6	37.0	2.8	93	nnw.	.....	.....	1	.....	10	.....	.....	0	0	.....	Physical Society.
Hamburg	30.20	767.1	30.29	769.4	33.1	0.6	100	sw.	.....	.....	1	.....	10	nw.	.....	0.413	10.5	snowing	Wilhelm, Chief Tel.
Kiel	30.26	768.5	30.27	768.9	34.9	1.6	95	se.	.....	.....	1	.....	10	.....	.....	0.004	0.1	foggy	E. Preller.
Leipsic, Astrom'l Obs'y	29.84	758.0	30.29	769.3	32.7	0.4	89	se.	.....	.....	1	.....	10	.....	.....	0.004	0.1	.....	Prof. Dr. G. Karsten.
Magdeburg	30.08	764.1	30.29	769.3	33.1	0.6	87	e.	.....	.....	1	.....	10	.....	.....	0	0	foggy	H. Leppig, Asst.
Memel	30.33	770.3	30.37	771.5	23.4	— 4.8	86	se.	.....	.....	3	.....	10	.....	.....	0	0	dense fog	Weather Observatory.
Munich	28.37	720.6	30.24	768.2	34.7	1.5	75	nw.	.....	.....	1	.....	10	.....	.....	0	0	foggy	Issermann.
Neufahrwasser	30.32	770.1	30.34	770.5	26.8	— 2.9	83	s.	.....	.....	1	.....	10	.....	.....	0.008	0.2	rain & fog	Central Station.
Neustadt, Palatinate	29.71	754.6	30.24	768.1	41.2	5.1	85	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	A. Lothes.
Stuttgart	29.28	743.8	30.22	767.5	37.0	2.8	100	ne.	.....	.....	1	.....	10	.....	.....	0	0	dense fog	Dicknether.
Wustrow	30.28	769 2	30.31	769.8	33.1	0.6	89	se.	.....	.....	2	.....	10	.....	.....	0.031	0.8	rain & fog	Prof. Dr. Schoder.
Greek.																			
Athens	29.63	752.5	30.02	762.5	48.9	9.4	.....	ne.	.....	.....	4.0	.....	9	.....	.....	0	0	covered	Profs. Brandes & Reimar.
Indian.																			
Kurrachee	29.99	761.8	30.04	763 1	77.2	25.1	41	wsw.	15.0	6.7	.....	.....	0	.....	.....	0	0	blue sky	Schmidt & Wourlisch.
Deesa	29.44	747 7	29.91	759.8	81.8	27.7	16	nnw.	6.0	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.83	757.8	29.87	758 7	82.1	27.8	63	wnw.	9.0	4.0	.....	.....	1	w.	.....	0	0	d. clouds	
Poona, Yarrowda	28.02	711.6	29.87	758.6	80.6	27.0	28	ene.	7.0	3.1	.....	.....	4	.....	w.	0	0	d. clouds	
Belgaum	27.33	694.1	29.86	758.5	77.4	25.2	30	ese.	8.0	3.6	.....	.....	9	ne.	.....	0	0	d. clouds	
Lahore	29.24	742 6	30.01	762.3	61.6	16 4	71	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	29.01	736 9	29.94	760.6	64.2	17.9	25	nw.	4.0	1.8	.....	.....	0	.....	.....	0	0	.....	
Agra	29.42	747 2	30.00	761.9	70.7	21.5	36	nw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.87	733.2	29.91	759.8	79.9	26.6	26	ese.	2.0	0.9	.....	.....	2	w.	.....	0	0	d. clouds	
Jubbulpore	28.59	726 2	29.97	761.2	73.3	22.9	60	ne.	2.0	0.9	.....	.....	5	.....	w.	0	0	d. clouds	
Lucknow	29.57	751.0	29.96	760.9	68.8	20.4	39	wsw.	5.0	2.2	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.04	752 9	29.97	761.2	62.3	16.8	70	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.76	755.9	29.95	760.8	67.6	19.8	44	w.	5.0	2.2	.....	.....	4	w.	w.	0	0	d. clouds	
Hazaribagh	27.91	709 0	29.99	761.6	63.7	17.6	43	nnw.	7.9	3.5	.....	.....	2	.....	.....	0	0	d. clouds	
Cuttack	29.87	758 7	29.99	760 9	74.6	23.7	56	calm	0	0	.....	.....	2	.....	.....	0	0	d. clouds	
Calcutta, Alipore	29.93	760 2	29.95	760.7	70.5	21.4	46	calm	0	0	.....	.....	3	.....	.....	0	0	d. clouds	
Dhubri	29.85	758.1	29.97	761.2	66.5	19.2	56	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.84	758.0	29.94	760.4	69.6	20.9	68	w.	2.7	1.2	.....	.....	5	.....	sw.	0	0	blue sky	
Sibsagar	29.62	752.5	29.98	761.4	60.7	15.9	84	sw.	2.0	0.9	.....	.....	6	sw.	sw.	0.57	14.5	d. clouds	
Zanzibar	29.72	754.8	29.84	757.9	86.7	30.4	52	ne.	6.5	2.9	.....	.....	0	.....	.....	0	0	blue sky	
Jeypore	28 51	724 2	29.99	761.7	69.7	20.9	50	nw.	2.9	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Bellary	28.41	721.6	.....	.....	78.2	25.7	39	se.	6	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.63	752.6	.....	.....	82.7	28.2	54	ene.	1	0.4	.....	.....	8	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Italian.																			
Udine	29.62	752.3	30.04	763.0	44.4	6.9	56	e.	5.6	2.5			4			0	0		Prof. Giovanni Clodig.
Milan	29.54	750.4	30.08	764.1	42.8	6.0	94	n.	1.3	0.6			10			0.387	9.8		Prof. Schiapparelli.
Padua	29.92	760.0	30.04	762.9	47.1	8.4	60	ne.	12.5	5.6			2	se.		0.484	12.3		Prof. Dott. Lorenzoni.
Moncalieri	29.12	739.7	30.07	763.7	42.4	5.8	77	ne.	1.3	0.6			2			0	0		Prof. F. F. Denza.
Genoa	29.71	754.7	29.91	759.6	51.8	11.0	57	nw.	11.2	5.0			4	s.		0.331	8.4		Prof. G. M. Garibaldi.
Mondovi	28.08	713.1	30.06	763.6	43.5	6.4	68	sw.			2		0			0.996	25.3		Prof. D. O. Bruno.
Pesaro	29.90	759.4	29.95	760.7	48.9	9.4	84	ene.	33.5	15.0			10			0.331	8.4		Prof. Luigi Guidi.
Florence	29.67	753.6	29.93	760.2	50.0	10.0	63	ne.			6		10			0.118	3.0		Prof. Costantino Pittei.
Leghorn	29.73	755.2	29.82	757.4	52.3	11.3	65	ne.	8.1	3.6			10			0.051	1.3		Prof. P. Monte.
Rome	29.60	751.9	29.78	756.4	55.4	13.0	77	n.	1.8	0.8			10			0.776	19.7		Prof. P. Tachini.
Lecce	29.59	751.5	29.84	758.0	53.4	11.9	76	sse.	29.8	13.3			10	s.		0.787	20.0		Prof. C. de Giorgi.
Cosenza	28.85	732.8	29.75	755.6	55.4	13.0	77	ssw.	3.1	1.3			10	sw.		0.299	7.6		Prof. D. Conti.
Cagliari	29.52	749.8	29.72	754.8	54.1	12.3	66	nw.			2		2			0.130	3.3		Prof. A. Pacinotti.
Palermo	29.50	749.2	29.75	755.6	57.9	14.4	53	ne.	1.8	0.8			8			0.012	0.3		Prof. G. Caccintore.
Syracuse	29.65	753.0	29.69	754.1	54.3	12.4	77	ne.	11.2	5.0			10	se.		0.020	0.5		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. It	29.24	742 7	29.77	756.1	54.1	12.3	76	ne.	0	0			10	se.		0.461	11.7		Prof. F. Brioschi.
Stelvio	22.40	566.9			21.4	— 5.9	87	ne.			2		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.09	561.0			27.5	— 2.5	68	e.			2		2			2.756	70.0	misty	Prof. P. F. Denza.
Japanese.																			
Akita	29.55	750.5	29.58	751.3	32.5	0.3	94	calm			0		10 n			1.378	35.0	snowing	Hattori.
Awomori	29.51	749.5	29.55	750.5	30.5	— 0.8	92	se.	2.1	0.9			10 s			0.140	3.7	overcast	K. Ogawa.
Hakodate	29.52	749.7	29.53	750.0	32.0	0.0	88	e.	6.0	2.7			10			0.146	3.7	overcast	
Hamamatsu	29.74	755.4	29.77	756.1	32.7	0.4	88	nw.			7	0	0			0	0	clear	
Kagoshima	30.12	765.1	30.13	765.4	30.5	— 0.8	77	n.			4		10 n			0.425	10.8	snowing	G. Miyanohaza.
Kioto	29.69	754.2	29.88	758.9	27.8	— 2.3	49	wsw.	9.2	4.1		0	0			0.063	1.6	clear	M. Tojima.
Kochi	29.97	761.1	29.99	761.6	29.9	— 1.2	73	w.	8.0	3.6		2	3	sw	sw.	0	0	fair	K. Kusunose.
Misaaka	30.07	763.7	30.10	764.5	30.0	— 1.1	49	w.			2	0	0			0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	29.95	760.8	30.17	766.3	27.5	— 2.5	77	n.	8.4	3.8		6 c	4 n	w.	n.	0.170	4.3	snowing	S. Takehayashi.
Niigata	29.56	750.8	29.60	751.8	32.9	0.5	76	w.	24.0	10.7			10 n			0.175	4.4	light snow	M. Morita.
Nobiru	29.48	748.9	29.50	749.3	34.6	1.4	80	nnw.	12.3	5.4			10 s			0.040	1.0	overcast	H. Midzushima.
Numazu	29.55	750.6	29.59	751.5	42.0	5.6	44	sw.			7	1 ck	0			0	0	clear	R. Kaneda.
Sakai	29.88	758.9	29.89	759.2	26.4	— 3.1	77	wnw.			4		9 ks		wnw.	0.437	11.1	cloudy	K. Yamawchi.
Supporo					26.0	— 3.3	85	sw.	4.2	1.9			10			0.220	5.6	covered	
Tokei Obs'y, Yeddo	29.43	747.5	29.50	749 4	44.0	6.7	49	ssw.	16.6	7.4		1ck;cs	0	sw.		0	0	clear	The Staff.
Wakayama	29.89	759.1	29.94	760.5	29.7	— 1.3	65	wsw.	14.2	6.3			1c n			0.020	0.7	cloudy	Y. Kuwamura.
Osaka	29.89	759.2	29.91	759.6	28.2	— 2.1	50	w.	23.4	10.5		ck	0	w.		0	0	clear	H. Omura.
Mauritius.																			
Mauritius Observatory	29.63	752.6	29.82	757.4	80.4	26.9	80	nne.	11.0	4.9		2cs;ck	8 ks;n		nne.	2.28	57.9	cloudy	Oliver & Figon.
Mexican.																			
Altata					54	12.2	86	nw.										cloudy	H. Diaz Pena.
Guanajuato	23.75	603.2	29.97	761.2	52.7	11.5	78	sw.	inap.	inap.		1 cs	0			inap	inap.	light fog	Prof. Vicente Fernandez.
Leon	24.40	619.7	30.22	767.6	48.2	9.0	84	nne.			1	8 cs	0			0	0	cloudy	Prof. M. Leal.
Mazatlan	29.80	757.0	30.07	763.7	62.5	16.9	88	nw.	5.3	2.3		0	7 n		sw.	0	0	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.18	588.7	30.36	771.2	45.5	7.5	77	calm	0	0		0	0			0	0	very fine	The Staff.
Morelia	24.19	614.5	30.01	762.3	41.5	5.3	67	se.			3	1 c	1 k	s.	s.	inap.	inap.	clear	M. Tena, M. D.
Pabellon	23.98	609.7	30.08	764.1	47.5	8.6	85	w.								0	0		
Puebla, Catholic Institute	23.47	596.1	30.41	772.0	44.2	6.8	74	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
Zacatecas	22.53	572.2	30.26	768.6	46.8	8.2	55	sw.	9.1	4.0		0	5 sn		wsw.	inap.	inap.	⅓ cloudy	J. A. Bonilla, M. E.
Netherlands.																			
Flushing	30.26	768.5	30.26	768.5	42.1	5.6		ssw.			2					0	0		
Gronlugen	30.19	760.7	30.24	768.1	37.6	3.1		sse.			1					0	0		
Hellevoetsluis	30.24	768.1	30.24	768.1	41.4	5.2	90	ssw.			2					0	0		
Utrecht	30.23	767.9	30.28	769.1	37.6	3.1	97	s.			2		hz.			0	0	hazy	H. van der Brink
Sub-series.																			
Batavia, Java	29.80	757.0			78.8	26.0	87	nnw.	0	0			5			0	0		Dr. I. P. van der Stok.
Norwegian.																			
Bergen	29.84	757.9	29.90	759.5	39.9	4.4	59	s.	34	15			10			0.079	2.0		
Brono	29.76	755.9	29.80	756.9	32.7	0.4	75	calm	0	0			0			0	0		
Christiania	30.02	762.6	30.18	766.5	30.6	— 0.8	100	sswv.	7	3			10			0.028	0.7	foggy	
Gjesvaer	29.72	754.8	29.74	755.4	35.2	1.8		sw.			2		8						
Lodingen	29.78	756.4	29.83	757.6	30.6	— 0.8	92	sswv.			1		10			0.008	0.2	snowing	
Portuguese.																			
Angra, Azores	29.98	761.6	30.14	765.6	57.0	13.9	95	wnw.	8.7	3.9			10			0	0		Dr. J. A. Sampaio.
Campo Major	29.32	744.6	30.35	770.8	49.6	9.8	69	nne.	6.3	2.8			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.21	767.3	30.30	769.6	63.0	17.2	57	e.	4.3	1.9			8			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.05	763.2	30.42	772.6	50.9	10.5	76	e.	4.3	1.9			0			0	0		The Staff.
Ponta Delgada, Azores	30.16	766.1	30.23	767.9	63.0	17.2	78	sw.	12.5	5.6			10			0	0		
Saint Paul de Lomdo	29.67	753.6	29.87	758.7	75.6	24.2	94	nw.	1.3	0.6			10			0	0		
Serra da Estrella	25.50	647.6	30.41	772.5	34.9	1.6	88	calm	0	0			0						
Russian.																			
Akmollinski																			Major K. Lasarew.
Archangel	28.91	734.4	30.15	765.9	—14.4	—25.8	81	sw.	18	8			9 kn						Capt. Sselliwerstow.
Ashurada	30.29	769.3	30.31	769.8	9.3	—12.6	92	ese.	4	2			10			0	0		
Astrakhan	30.07	763.7	29.97	761.3	38.3	3.5	82	nnw.	9	4			9 ks;n			0	0		
Baku	30.42	772 6	30.34	770.5	— 2.0	—18.9	82	nnw.	7	3		.0	7 s			blank	blank		Capt. Wisganow.
Barnaul	30.15	765.8	30.10	764.6	31.1	— 0.5	98	nne.	13	6			10 n			0.185	4.7		
Bieloserak	29.70	750.0	30.32	770.1	3.4	—15.9	83	sw.	9	4			9			0.016	0.4		Meteorological Obs'y.
Dorpat	29.96	761.0	30.49	774.5	— 2.9	—19.4	91	sse.	2	1		0	9 k			0	0		
Ekaterinburg	30.20	767.1	30.47	774.0	6.1	—14.4	78	s.	7	3		0	0			0	0		Observatory.
Elisawetgrad	29.17	740.9	30.35	770.8	—38.4	—39.1	76	nw.	4	2		0	0			0	0	foggy	Meteorological Obs'y.
Irkutsk	30.09	764.3	30.58	776.8	13.1	—10.5	73	calm	0	0		1 cs	0			0	0		
Kasan	28.74	730.1	30.01	777.4	— 3.6	—19.8	78	sse.			1		0			0	0		
Kem	30.22	767.6	30.54	775.8	—22.4	—30.2	65	n.	9	4			0			0	0		Observatory.
Kertch	30.15	765.8	30.20	767.1	16.9	— 8.4	94	sw.	4	2			10			0	0	heavy clouds	
Kieff	30.31	769.9	30.33	770.4	10.8	—11.8	93	ne.	9	4		0	3 k			0	0		Lagorio & Sastyrez.
Koslov	29.67	756.6	30.58	770.8	5.2	—14.9	69	e.	7	3		0	4 k;ks			0	0	light clouds	Observatory.
Libau	29.90	759.4	30.49	774.5	0.5	—17.5	93	nne.	4	2			10			0	0		
Lugan	30.34	770.5	30.36	771.1	24.3	— 4.3	71	sse.	7	3			10 s			0	0		E. Quaas.
Moscow	30.21	767 4	30.43	772.8	— 0.1	—17.8	62	nnw.	9	4			0			0	0		Meteorological Obs'y.
Nikolaiev	29.98	761.6	30.53	775 4	7.3	—13.7	58	nw.	2.2	1.0		2 ck	0			0	0		
Nikolaievsk-on-the-Amoor	30.44	773.1	30.51	775.0	15.4	— 9.2	81	ene.	9	4		0	0			0	0		Capt. Kurdakow.
Pekin, China	30.24	768.0	30.32	770.2	—28.1	—33.4	71	calm	0	0		0	0			0	0		Iwanow.
Petrozavodsk	30.47	774.0	30.61	777.6	14.7	— 9.6	27	calm	0	0		0	0			0	0		Physicla Observatory.
Pinsk	30.15	765.9	30.38	771.6	5.4	—14.8	87	wnw.	7	3			c	5 ks		0	0		Dr. Bergmann.
Poti	29.96	761.0	30.50	774.8	17.6	— 8.0	48	sw.	20	9			10 s						
St. Petersburg	29.95	760.8	29.97	761.3	35.8	2.1	85	e.	9	4			10 n					raining	
Samarkand	30.45	773.4	30.47	773.8	— 1.3	—18.5	83	sw.	4	2		0	0			0	0		Central Physical Obs'y.
Sevastopol																			
Semipalatinsk	30.00	762.0	30.17	766.2	38.5	3.6	37	nne.	27	12		0	0			0	0		
Starol Bykhov	29.70	754.4	30.43	773.0	0.3	—17.6	78	wnw.	9	4			6			0.020	0.5		Major Lasarew.
Tiflis	30.17	766.2	30.68	779.2	10.9	—11.7	49	se.	2	1		0	1 s			0	0	hazy	
Tomsk	28.66	728 0	30.16	766.1	29.5	— 1.4	78	calm	0	0			10			0.165	4.2	light snow	Physical Observatory.
Viatka	29.97	761.1	30.28	769.2	—12.1	—24.5	83	se.	2	1			9						
Warsaw	29.89	759.1	30.65	778.5	—31.4	—35.2		calm	0	0			0			0	0		
	29.89	759.2	30.35	770.8	23.7	— 4.6	81	s.	7	3			10			0	0	heavy clouds	Astronomical Obs'y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From	Inch.	Mill.		
Russian.—Continued.																			
Wilna	30.03	762.8	30.49	774 5	17.6	— 8.0	56	ese.	7	3	.....	.....	6	.....	.....	0	0	light clouds	Berg, Assistant.
Yeniseisk	30.15	765.7	30.47	773.9	— 0.4	—18.0	87	e.	4	2	.....	.....	7	.....	.....	0	0	light clouds	M. O. Marks.
Scottish.																			
Monach Lt	.....	.....	29.49	749.0	48	8.9	92	sw.	.....	.....	6	.....	10	.....	.....	0.3	8.	overcast	J. Youngclause.
North Unst	.....	.....	29.44	747.8	.....	.....	.....	sw.	.....	.....	7	.....	10	.....	.....	blank	blank	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.95	760 7	30.06	763.4	53.6	12.0	48	nw.	2.5	1.1	.....	0	0	.....	.....	0	0	.....	Antonio Rzve, Director.
Bilbao, Met. Obs'y	30.36	771.2	30.42	772.7	49.1	9.5	92	se.	2.0	0.9	.....	.....	10	.....	.....	0.142	3.6	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.34	694.5	30.48	774.3	34.0	1.1	83	w.	4.0	1.8	.....	.....	10	.....	.....	0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	28.06	712.8	30.38	771.7	42.8	6.0	68	sw.	1.6	0.7	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	.....	.....	.....	.....	56.1	13.4	68	nw.	17.0	7.6	.....	0	2	.....	.....	0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.48	748.7	30.34	770.7	44.6	7.0	87	se.	6.0	2.7	.....	0	0	.....	.....	0.	0	clear	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.41	747.1	30.33	770.4	50.2	10.1	95	calm	0	0	.....	.....	10	.....	.....	0.012	0.3	covered	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.86	758.4	29.91	759.8	77.2	25.1	79	ne.	2.5	1.1	.....	0	1 ks	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.21	767.2	30.31	769.8	52.2	11.2	63	n.	5.2	2.3	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.08	763.9	30.17	766.2	77.0	25.0	98	calm	0	0	.....	1 s	1 k	e.	e.	0.197	5.0	clear	Manuel Maese.
Swedish.																			
Haparanda	30.04	763.1	30.08	764.1	20.1	— 6.6	100	sw.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Umea	30.08	764.1	30.13	765.4	30.6	— 0.8	96	sw.	.....	.....	6	.....	10	.....	.....	0	0	.....	
Hernosand	30.06	763.4	30.11	764.7	30.9	— 0.6	85	s.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Stockholm	30.08	764.1	30.26	768.6	31.6	— 0.2	92	s.	.....	.....	2	.....	10	.....	.....	0.004	0.1	.....	
Wisby	30.17	766.3	30.23	767.8	33.1	0.6	89	s.	.....	.....	2	.....	10	.....	.....	.....	.....	rain & snow	
Sub-series.																			
Upsala	30.13	765.4	30.22	767.6	29.5	— 1.4	94	s.	9.4	4.2	.....	.....	10	.....	.....	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	28.74	73c.1	30.21	767.3	41.7	5.4	73	nne.	.....	.....	6	.....	9	.....	.....	0.008	0.2	covered	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.15	765.9	42.1	5.6	80	ne.	22	10.0	.....	.....	10	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	29.87	758.8	59.4	15.2	.....	ne.	.....	.....	1	.....	5	.....	.....	0	0	clondy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.84	757.9	62.1	16.7	80	sw.	.....	.....	1	.....	9 n	.....	sw.	0.37	9.4	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.79	680.5	.....	.....	27	— 2.8	90	se.	.....	.....	2	.....	10 n	.....	w.	0.02	0.5	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.29	769.4	30.38	771.6	21.3	— 5.9	70	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.24	742.7	29.95	760.7	22	— 5.6	84	e.	2	0.9	.....	.....	10 n	.....	.....	0.30	7.6	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.01	635.2	30.13	765 3	10	—12.2	66	ne.	1	0.4	.....	0	0	.....	.....	0.02	0.5	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.50	698.5	30.54	775.7	—20	—28.9	43	n.	13	5.8	.....	.....	10 n	.....	n.	0.46	11.7	light snow	B. O. Lenoir.
Atlanta, Georgia	28.95	735.3	30.18	766.6	35.0	1.7	100	ne.	9	4.0	.....	.....	10 n	.....	.....	0.71	18.0	light rain	H. C. Smith.
Atlantic City, New Jersey	30.24	768.1	30.24	768.1	37	2.8	89	se.	18	8.0	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	Jas. M. Watson.
Augusta, Georgia	30.00	762.0	30.20	767.1	40	4.4	89	e.	3	1.3	.....	.....	10 n	.....	e.	0.10	2.5	light rain	John Healy.
Baltimore, Maryland	30.26	768.6	30.31	769.9	32	0.0	78	e.	2	0.9	.....	10s; fg	.....	.....	.....	inap.	inap.	cloudy	Geo W Felger.
Barnegat, New Jersey	30.25	768.6	30.28	769.1	38.0	3.3	89	e.	22	9.8	.....	.....	10 s	.....	e.	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.63	752.6	29.65	753.1	32.5	0.3	.....	ne.	24	10.7	.....	.....	10 n	.....	.....	0.01	0.3	cloudy	Leonard Steineger.
Bennett, Fort, Dakota	28.58	725.9	30.32	770.1	0	—17.8	72	ne.	8	3.6	.....	0	2 s	.....	.....	0	0	clear	A. Pritchard
Benton, Fort, Montana	27.55	699.8	30.53	775.4	—19	—28.3	36	ne.	12	5.4	.....	0	5 ks	.....	.....	0.08	2.0	fair	S. Wheaton.
Billings, Montana	26.91	683.5	.....	.....	—11	—23.9	.....	ne.	12	5.4	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	T. Gibson.
Bismarck, Dakota	28.38	720.8	30.37	771.4	—13	—25.0	100	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.37	771.4	30.40	772.1	32	0.0	78	se.	15	6.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. T. Elker.
Boise City, Idaho	27.34	694.4	30.27	768.8	—16	—26.7	87	nw.	2	0.9	.....	0	0	.....	.....	0.44	11.2	clear	B. E. Light.
Boston, Massachusetts	30.28	769.1	30.45	773.4	21.0	— 6.1	70	w.	1	0.4	.....	10s; fg	.....	.....	.....	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.89	759.2	29.94	760.5	67.6	19.8	93	s.	10	4.5	.....	.....	10 s	.....	s.	0	0	cloudy	M. McCarty.
Buffalo, New York	29.23	742.4	30.03	762.7	29	— 1.7	82	se.	10	4.5	.....	.....	10 s	.....	se.	0	0	cloudy	W. Finn.
Buford, Fort, Dakota	28 35	720 1	30.55	776.0	—20	—28.9	100	nw.	4	1.8	.....	.....	10 n	.....	.....	0.22	5.6	light snow	F. A. Mellen.
Burlington, Vermont	30.04	763.0	30.35	770.9	16.3	— 8.7	75	s.	1	0.4	.....	.....	10 s	.....	w.	0	0	cloudy	G. O. Schaeffer.
Cairo, Illinois	29.52	749 8	29.94	760.5	46.8	8.2	94	w.	11	4.9	.....	.....	10 s	.....	w.	0.06	1.5	threatening	W. H. Ray.
Cape Henry, Virginia	30.25	768.3	30.27	768.8	34	1.1	100	nw.	8	3.6	.....	fg.	.....	.....	.....	0.27	6.9	dense fog	A. K. Alderson.
Cape May, New Jersey	30.21	767.3	30.24	768.1	33.5	0.8	88	n.	6	2.7	.....	fg.	.....	.....	.....	inap.	inap.	dense fog	W. E. Smith.
Cape Mendocino, California	29.48	748.8	30.18	766.6	42	5.6	92	nw.	20	8.9	.....	10 n	.....	.....	nw.	0.45	11.4	light rain	J. J. McLean.
Cedar Keys, Florida	30.15	765.8	30.17	766.3	59	15.0	93	e.	10	4.5	.....	fg.	.....	.....	.....	0.31	7.9	dense fog	F. W. Mixer.
Champaign, Illinois	28.91	734.3	29.78	756.4	37.3	2.9	79	s.	4	1.8	.....	fg.	.....	.....	.....	0	0	dense fog	L. A. Welsh.
Charleston, S. Carolina	30.13	765.3	30.19	766.8	47	8.3	100	ne.	7	3.1	.....	fg.	.....	.....	.....	0.04	1.0	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.27	743.4	30.16	766.1	31.0	— 0.6	88	ne.	.....	.....	1	.....	10s; fg	.....	ne.	0.17	4.3	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.22	742.2	30.08	764.0	41.5	5.3	88	s.	9	4.0	.....	.....	10 n	.....	s.	0.88	22.4	light rain	B. L. Goulding.
Cheyenne, Wyoming	23 74	603.0	29.99	761 7	0.2	—17.7	37	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.02	737.1	29.77	756.1	33.6	0.9	90	se.	6	2.7	.....	.....	10 s	.....	.....	0.60	15.2	cloudy	J. Mitchell.
Chincoteague, Virginia	30.20	767.1	30.22	767.6	34	1.1	88	ne.	6	2.7	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.18	741.2	29.87	758.7	42	5.6	100	e.	5	2.2	.....	.....	10 n	.....	.....	0.15	3.8	light rain	R. B. Watkins.
Cleveland, Ohio	29.08	738.6	29.86	758.4	30.8	— 0.7	87	se.	18	8.0	.....	.....	10 n	.....	.....	0.02	0.5	light rain	J. B. Newlin.
Coleman City, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. Dorman.
Columbus, Ohio	28.98	736.1	29.88	758 9	36	2.2	89	se.	8	3.6	.....	.....	10 n	.....	.....	0.07	1.8	light rain	D. Cuthbertson.
Concho, Fort, Texas	28.19	716.0	30.21	767.3	33.3	0.7	71	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Davenport, Iowa	29.17	740.9	29.88	758.9	28	— 2.2	77	nw	10	4.5	.....	.....	10 s	.....	.....	0.27	6.9	cloudy	W. B. Lamar.
Davis, Fort, Texas	25.18	639.6	30.15	765.8	27	— 2.8	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.18	715.8	29.98	761.5	6	—14.4	100	w.	5	2.2	.....	.....	10 n	.....	.....	0.17	4.3	heavy snow	D. Moore.
Deadwood, Dakota	25.19	639.8	30.13	765.3	—10	—23.3	100	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. Wilson.
Delaware Breakwater, Del	30.26	768.6	30.28	769.1	34	1.1	88	nw.	8	3.6	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	T. S. Townsend.
Denison, Texas	29.24	742.7	30.08	764.0	40.0	4.4	100	nw.	2	0.9	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	J. W. Byram.
Denver, Colorado	24.52	622.8	30.04	763.0	12.5	—10.8	70	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.04	737.6	30.01	762.2	20	— 6.7	70	n.	8	3.6	.....	0	5 s	.....	n.	0.11	2.8	fair	F. W. Conrad.
Detroit, Michigan	29.14	740.1	29.90	759.4	29.2	— 1.6	92	ne.	12	5.4	.....	.....	10 n	.....	.....	0.13	3.3	light snow	C. F. R. Wappenhans.
Dodge City, Kansas	27.43	696.7	30.18	766.6	10	—12.2	60	sw.	4	1.8	.....	0	0	.....	.....	0.04	1.0	clear	V. P. Temple.
Dubuque, Iowa	29.12	739.6	29.89	759.2	22.7	— 5.2	88	n.	5	2.2	.....	.....	10 s	.....	.....	0.23	5.8	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.29	744.0	30.10	764.5	12.4	—19.9	70	nw.	18	8.0	.....	0	0	.....	.....	0.06	1.5	clear	N. B. Conger.
Eagle Pass, Texas	29.31	744.5	30.15	765.8	49.0	9.4	86	n.	8	3.6	.....	0	1 s	.....	.....	inap.	inap.	clear	F. Belford.
Eagle Rock, Idaho	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Eastport, Maine	30.39	771.9	30.46	773.7	12	—11.1	83	n.	24	10.7	.....	.....	10 s	.....	n.	0.50	12.7	cloudy	J. M. Clifford.
Elliott, Fort, Texas	27.21	691.1	30.14	765.5	14.0	—10.0	80	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. C. Murphy.
El Paso, Texas	26 30	668.0	30.18	766.6	18	— 7.8	42	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Erie, Pennsylvania	29.18	741.2	29.95	760.7	27.0	— 2.8	56	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Escanaba, Michigan	29.25	742.9	29.97	761.2	30	— 1.1	78	se.	10	4.5	.....	0	0	.....	.....	0.01	0.3	clear	Peter Wood.
Fredericksburg, Texas	28.34	719.8	30.16	766.1	18.0	— 7.8	91	n.	17	7.6	.....	.....	10 n	.....	n.	0.06	1.5	light snow	George Heathcote.
Galveston, Texas	29.94	760.5	29.99	761.2	45	7.2	56	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	Frank Halwegler.
Grand Haven, Michigan	29.12	739 6	29.99	761.7	60	15.6	100	sw.	5	2.2	.....	.....	fg.	.....	.....	0	0	dense fog	E. O'C. Machnerney.
Grant, Fort, Arizona	25.14	638.5	29.82	757.4	26.0	— 3.3	88	ne.	8	3.6	.....	.....	10 s	.....	.....	0.36	9.1	threatening	J. E. Mueller.
Hatteras, North Carolina	30.22	767.6	30.04	763.0	20	— 6.7	87	nw.	2	0.9	.....	0	0	.....	.....	0.01	0.3	clear	Robert C. Lord.
Helena, Montana	25.86	656.8	30.24	768.1	40	4.4	100	n.	12	5.4	.....	.....	fg.	.....	.....	0.96	24.4	dense fog	R. M. Crawford.
Henrietta, Texas	.....	.....	30.28	769.1	—18	—27.8	100	sw.	6	2.7	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	N. C. Smith.
Huron, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. P. Sherry.
Indianapolis, Indiana	28.72	729 5	30.26	768.6	1	—17.2	44	nw.	7	3.1	.....	0	1 s	.....	.....	0.02	0.5	clear	S. W. Glenn.
Indianola, Texas	28 96	735.6	29.80	756.9	39	3.9	89	se.	2	0.9	.....	.....	10n; fg	.....	.....	0.01	0.3	light rain	J. F. Jirdinston.
Jacksboro, Texas	29.98	761.5	30.01	762.2	57.2	14.0	98	n.	13	5.8	.....	.....	10 n	.....	.....	0.03	0.8	light rain	I. A. Reed.
Jacksonville, Florida	28.91	734.3	30.15	765.8	41	5.0	65	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Keogh, Fort, Montana	30.14	765.5	30.18	766.6	55	12.8	100	calm	0	0	.....	.....	fg.	.....	.....	0.60	15.2	dense fog	J. W. Smith.
Keokuk, Iowa	27.73	704.3	30.42	772.7	—14	—25.6	50	n.	16	7.2	.....	.....	10 n	.....	n.	0.03	0.8	light snow	A. Schneider.
	29.19	741.4	29.89	759.2	25.0	— 3.9	88	nw.	7	3.1	.....	.....	10 s	.....	nw.	0.45	11.4	cloudy	F. Z. Gosewisch.

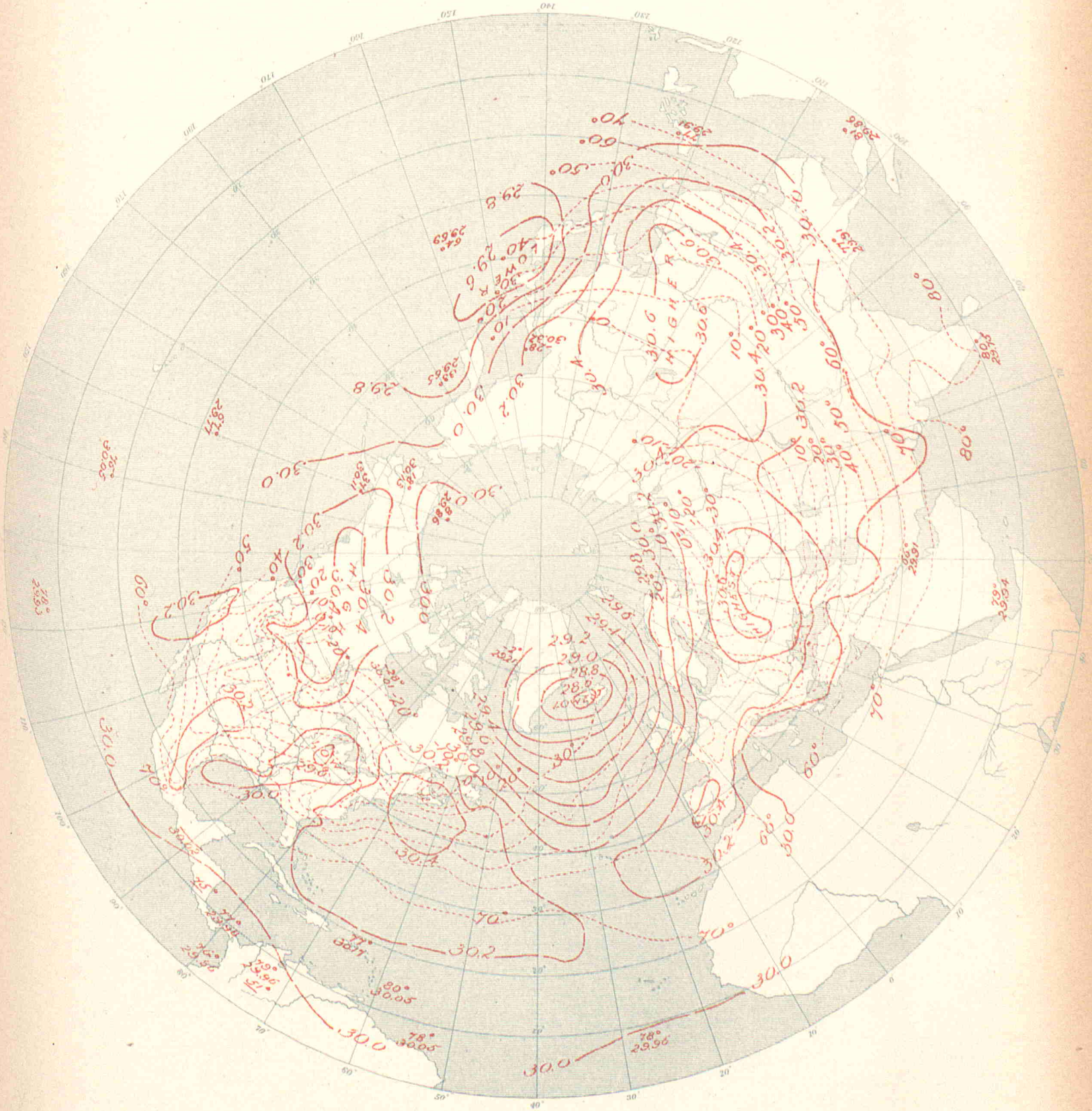
STATIONS	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper	Clouds. Direction. Lower	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Key West, Florida	30.14	765.5	30.16	766.1	71.5	21.9	90	se.	6	2.7	.....	0	3 k	.....	se.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	29.24	768.1	30.26	768.6	40	4.4	100	n.	9	4.0	.....	.....	fg.	.....	.....	1.21	30.7	dense fog	H. Mc P. Baldwin.
Knoxville, Tennessee	28.97	735.8	30.05	763.3	38.6	3.7	100	nw.	6	2.7	.....	.....	10 n	.....	.....	0.83	21.1	heavy rain	J. A. Cody.
La Crosse, Wisconsin	29.11	739.4	29.95	760.7	16	— 8.9	83	n.	12	5.4	.....	.....	10 n	.....	.....	0.24	6.1	light snow	S. C. Emery.
Leavenworth, Kansas	29.14	740.1	30.10	764.5	24	— 4.4	88	nw.	6	2.7	.....	.....	10 s	.....	nw.	0.32	8.1	cloudy	A. W. Browne.
Lewiston, Idaho	29.08	738.6	29.95	760.7	21.0	— 6.1	84	w.	3	1.3	.....	0	7 s	.....	.....	0.52	13.2	fair	W. Bell.
Little Rock, Arkansas	29.65	753.1	29.98	761.5	47	8.3	86	w.	6	2.7	.....	0	5 s	.....	nw.	0.20	5.1	fair	W. U. Simons.
Los Angeles, California	29.80	756.9	30.20	767.1	40	4.4	65	ne.	10	4.5	.....	0	5 s	.....	ne.	0	0	fair	T. S. Collins.
Louisville, Kentucky	29.25	742.9	29.84	757.9	47.5	8.6	89	se.	6	2.7	.....	.....	10 n	.....	.....	0.07	1.8	light rain	L. M Dey.
Lynchburg, Virginia	29.54	750.3	30.26	768.6	30	— 1.1	88	ne.	1	0.4	.....	.....	10 n	.....	.....	inap.	inap.	light rain	Louis Duane.
Mackinaw City, Michigan	29.29	744.0	29.99	761.7	21.0	— 6.1	84	ne.	5	2.2	.....	.....	10 n	.....	.....	0.08	2.0	light snow	F. R. Day.
Macon, Fort, North Carolina	30.24	768.1	30.25	768.3	38.0	3.3	100	nw.	10	4.5	.....	.....	fg.	.....	.....	0.45	11.4	dense fog	William Daly.
Madison, Wisconsin	28.73	729.7	29.84	757.9	20	— 6.7	84	ne.	12	5.4	.....	.....	10 s	.....	.....	0.26	6.6	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.62	650.7	30.17	766.3	—25	—31.7	41	w.	24	10.7	.....	.....	10 s	.....	w.	0	0	cloudy	F. Burke.
McKavett, Fort, Texas	27.78	705.6	30.17	766.3	39	3.9	50	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.25	742.9	30.03	762.7	19	— 7.2	84	nw.	8	3.6	.....	.....	10 n	.....	.....	0.02	0.5	light snow	J. Gilligan.
Memphis, Tennessee	29.03	752.6	29.99	761.7	50	10.0	100	w.	5	2.2	.....	.....	10 n	.....	.....	0.18	4.6	light rain	D. T. Flannery
Milwaukee, Wisconsin	28 99	736.3	29.79	756.7	31	— 0.6	88	e.	12	5.4	.....	.....	10 s	.....	.....	0.42	10.7	threatening	W. Line.
Missoula, Fort, Montana	26.75	679.4	30.21	767.3	—16	—26.7	44	ne.	44	19.7	.....	0	7 s	.....	n.	0.13	3.3	fair	J. H. Young.
Mobile, Alabama	29.99	761.7	30.03	762.7	66.5	19.2	97	sw.	11	4.9	.....	.....	10 s	.....	sw.	0.04	1.0	cloudy	C. A. Read.
Montgomery, Alabama	29.79	756.7	30.03	762.7	48.8	9.3	97	nw.	4	1.8	.....	.....	10 n	.....	.....	0.40	10.2	thund'r st'm	J. B. McLaughlin
Moorhead, Minnesota	29.12	739.6	30.23	767.8	— 6	—21.1	100	n	12	5.4	.....	.....	10 s	.....	n.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	28.95	735.3	30.01	762.2	35.5	1.9	78	sw.	1	0.4	.....	.....	10 n	.....	.....	0.02	0.5	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.75	603.2	30.38	771.6	10.0	—12.2	66	w.	14	6.3	.....	1 cs	fg.	.....	w.	0	0	clear	S. W. Beall.
Nashville, Tennessee	29.30	744.2	29.91	759.7	49.0	9.4	93	s.	8	3.6	.....	.....	10 ks	.....	s.	0.11	2.8	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.26	768.6	30.38	771.6	22	— 5.6	87	ne.	7	3.1	.....	10 cs	0	.....	.....	inap.	inap.	cloudy	J. H. Sherman.
New London, Connecticut	30.36	771.1	30.41	772.4	27	— 2.8	88	ne.	4	1.8	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.94	760.5	30.00	762.0	68.0	20.0	93	s.	13	5.8	.....	.....	10 s	.....	s.	0.04	1.0	threatening	L. Dunne.
Newport, Rhode Island	30.37	771.4	30.42	772.7	28.4	— 2.0	76	ne.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	W. McGillivray.
New York, New York	30.15	765.8	30.34	770.6	31	— 0.6	88	ne.	7	3.1	.....	10s; fg	.....	.....	ne.	0.07	1.8	cloudy	J. B. Merrill.
Norfolk, Virginia	30.23	767.8	30.26	768.6	34	1.1	100	n.	2	0.9	.....	.....	fg.	.....	.....	0.26	6.6	dense fog	Wm. Davis.
North Platte, Nebraska	27.02	686.3	30.14	765.5	11.6	—11.3	74	calm	0	0	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	E. F. Brady.
Olympia, Washington T'y.	30.12	765.0	30.16	766.1	26.0	— 3.3	76	ne.	22	9.8	.....	9 k	0	ne.	.....	inap.	inap.	cloudy	J. Dascomb.
Omaha, Nebraska	28.85	732.8	30.12	765.0	16.2	— 8.8	70	nw.	4	1.8	.....	0	0	.....	.....	0.21	5.3	clear	A. Pollak.
Oogiaamie, Alaska	29.84	757.9	29.86	758.4	8.0	—13.3	96	wsw.	34	15.2	.....	.....	10 n	.....	.....	0.01	0.3	light snow	P. H. Ray.
Oswego, New York	29.79	756.7	30.14	765.5	27.5	— 2.5	70	se.	13	5.8	.....	.....	10 s	.....	w.	0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.51	749.5	30.09	764.3	50.5	10.3	93	nw.	7	3.1	.....	0	6 ks	.....	nw.	0.34	8.6	fair	L. M. Pindell.
Pensacola, Florida	30.01	762.2	30.04	763.0	63.1	17.3	100	sw.	12	5.4	.....	.....	10 n	.....	.....	0.71	18.0	thund'r st'm	M. McGauran.
Philadelphia, Pa.	30.21	767.3	30.32	770.1	30	— 1.1	100	ne.	8	3.6	.....	.....	10n; fg	.....	ne.	inap.	inap.	light snow	T. T. Townsend.
Pike's Peak, Colorado	17.18	436.4	29.88	758.9	—22	—30.0	100	w.	56	25.0	.....	0	0	.....	.....	0.02	0.5	clear	H. Hall.
Pioche, Nevada	23.76	603.5	29.96	761.0	18	— 7.8	61	s.	14	6.3	.....	0	5 ks	.....	nw.	0	0	fair	C. N. Kitchel.
Pittsburg, Pennsylvania	29.15	740.4	30.00	762.0	33.0	0.6	88	ne.	2	0.9	.....	.....	10 n	.....	ne.	0.07	1.8	light rain	W. A. Reid.
Poplar River, Montana	28.08	713.2	30.44	773.2	.....	.....	.....	nw.	.....	.....	6	0	8 s	.....	nw.	0.03	0.8	cloudy	W. D. Maxwell.
Port Eads, Louisiana	30.06	763.5	30.07	763.8	64.2	17.9	100	s.	9	4.0	.....	.....	10s; fg	.....	s.	0	0	cloudy	H. B. Boyer.
Port Huron, Michigan	29.18	741.2	29.91	759.7	22.7	— 5.2	100	ne.	8	3.6	.....	.....	10 n	.....	.....	0 12	3.0	heavy snow	W. O. Bailey.
Portland, Maine	30.40	772.1	30.45	773.4	12.0	—11.1	61	nw.	4	1.8	.....	3 c	hz.	nw.	.....	0	0	dense haze	W. W. Eichelberger.
Portland, Oregon	30.01	762.2	30.08	764.0	29.0	— 1.7	70	nw.	16	7.2	.....	0	5 s	.....	nw.	0.04	1.0	fair	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	40	4.4	100	nw.	.....	.....	2	.....	10 n	.....	.....	0.63	10.0	light rain	F. S Coburn.
Prescott, Arizona	24.67	626.6	30.05	763.3	25.8	— 3.4	80	sw.	15	6.7	.....	0	2 s	.....	sw.	0	0	clear	W. H. Clendenon.
Provincetown, Mass.	30.42	772.7	30.45	773.4	27	— 2.8	77	se.	8	3.6	.....	4 cs	6 s	w.	w.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.17	766.3	30.18	766.6	67	19.4	93	se	8	3.6	.....	4 c	fg.	.....	.....	0	0	fair	W. J. Evans.
Red Bluff, California	29.75	755.6	30.12	765.0	38	3.3	89	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New-York	29.38	746.2	30.09	764.3	27	— 2.8	88	se.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	E. W. McGann
Roseburg, Oregon	29.57	751.1	30.14	765.5	35.3	1.8	89	w.	4	1.8	.....	.....	10 s	.....	w.	0.23	5.8	threatening	J. J. Nanry.
Sacramento, California	30.10	764.5	30.18	766.6	39.4	4.1	89	se.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.24	742 7	29.88	758.9	36.8	2.7	99	sw	6	2.7	.....	.....	10s; fg	.....	.....	0.19	4.8	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.10	764.5	30.13	765.3	18	— 7.8	100	n.	8	3.6	.....	.....	10 n	.....	.....	0.66	10.8	light snow	A. P. Leavitt.
St. Paul, Minnesota	29.13	739.9	30.08	764.0	17.0	— 8.3	83	n.	6	2.7	.....	.....	10 s	.....	n.	0.01	0.3	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.33	745.0	30.31	769.9	— 7	—21.7	85	n.	20	8.9	.....	.....	10 s	.....	.....	0	0	cloudy	O. B Dilley.
Salt Lake City, Utah	25.29	642.4	29.86	758.4	23	— 5.0	64	se.	16	7.2	.....	.....	10 n	.....	.....	inap.	inap.	light snow	J. Craig.
San Antonio, Texas	29.34	745 2	30.07	763.8	53.0	11.7	66	nw.	12	5.4	.....	0	8 s	.....	nw.	inap.	inap.	cloudy	T. J. Kenan.
San Diego, California	30.14	765.5	30.20	767.1	44.4	6.9	75	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.11	739 4	29.83	757.7	36	2.2	79	sw.	13	5.8	.....	.....	10 s	.....	.....	0	0	threatening	M. H. Perry.
Sandy Hook, New Jersey	30.28	769.1	30.31	769 9	35.0	1.7	89	se.	22	9.8	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	B. A. Blundon.
San Francisco, California	30.17	766.3	30.24	768.1	46	7.8	83	w.	9	4.0	.....	0	3 s	.....	nw.	0.03	0.8	clear	N. Gorom.
Santa Fé, New Mexico	23.08	586.2	30.13	765.3	18	— 7.8	73	nw.	2	0.9	.....	0	0	.....	.....	0.01	0.3	clear	H. U. Jones.
Savannah, Georgia	30.08	764.0	30.18	766.6	50	10.0	83	ne.	4	1.8	.....	.....	fg.	.....	.....	0.03	0.8	dense fog	H. W. Ford.
Shaw, Fort, Montana	26.60	675.6	30.46	773.7	—17	—27.2	100	n.	4	1.8	.....	0	0	.....	.....	0.08	2.0	clear	A. L. Mathews.
Shreveport, Louisiana	29.77	756.1	30.02	762 5	48	8.9	100	w.	7	3.1	.....	.....	10 s	.....	.....	0.34	8.6	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.85	732.8	30.18	766.6	36.5	2.5	91	nw.	7	3.1	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.23	615.4	30.09	764.3	17.0	— 8.3	80	w.	2	0.9	.....	0	0	.....	.....	0.15	3.8	clear	N. D. Lane.
Sitka, Alaska	30.41	772.4	30.48	774.2	31	— 0.6	78	e.	8	3.6	.....	.....	10 s	.....	e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.57	751.1	30.07	763.8	36.0	2.2	89	w.	6	2.7	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.20	767.1	30.24	768.1	39	3.9	100	n.	9	4.0	.....	.....	fg.	.....	.....	0.43	10.9	dense fog	O. Parker.
Spokane Falls, Wash. Ter.	27.95	709 9	30.09	764.3	5.3	—14 8	74	ne.	12	5.4	.....	.....	10 s	.....	.....	0.30	9.1	cloudy	H. Clifford.
Springfield, Illinois	29.10	739.1	29.83	757.7	37	2.8	89	w.	10	4.5	.....	.....	10s; fg	.....	w.	0.53	13.5	cloudy	T. B. Jennings.
Springfield, Missouri	28.50	723.9	30.02	762.5	32	0.0	88	nw.	14	6.3	.....	.....	10 n	.....	.....	0.20	5.0	light snow	J. H. Bryce.
Starkville, Miss.	29.48	748.8	29.98	761.5	52	11.1	93	s.	9	4.0	.....	.....	10 s	.....	.....	1.05	26.7	cloudy	C. Dill.
Stevenson, Fort, Dakota	28.39	721.1	30.45	773.4	—10	—28.3	100	w.	16	7.2	.....	0	0	.....	.....	inap.	inap.	clear	W. Burrows.
Stockton, Fort, Texas	27.16	689.9	30.30	769.6	23	— 5.0	88	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass.	30.39	771.9	30.45	773.4	30.0	— 1.1	78	s.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	G. Liebmann.
Thomas Camp, Arizona	27.34	694.4	30.18	766.6	28.5	— 1.9	86	calm	.....	.....	0	0	0	.....	.....	inap.	inap.	clear	J. T. Fitzgerald.
Toledo, Ohio	29.10	739.1	29.84	757.9	34	1.1	89	se.	1	0.4	.....	.....	10 n	.....	.....	0.20	5.1	heavy rain	A. Buell.
Tucson, Arizona	27.66	702.6	30.16	766.1	28	— 2.2	77	s.	3	1.3	.....	0	0	.....	.....	0.10	4.1	clear	J. L. Whiteside.
Umatilla, Oregon	29.70	754.4	30.09	764.3	15	— 9.4	91	n.	40	17.9	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	26.1	— 3.3	49	n.	.....	.....	2	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.74	755.4	30.00	762.0	56.7	13.7	90	sw.	4	1.8	.....	.....	fg.	.....	.....	0.41	10.4	dense fog	James Keneally.
Visalia, California	29.88	758.9	30.27	768.8	28.4	— 2.0	84	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.08	611.6	29.87	758.7	— 4.5	—20.3	88	w.	1	0.4	.....	0	3 ks	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.19	766.8	30.31	769.9	27.5	— 2.5	94	ne.	2	0.9	.....	.....	10 n	.....	.....	c.01	0.3	light rain	B. M. Purssell.
West Las Animas, Colorado	25.97	659.6	30.11	764.8	— 4	—20.0	83	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.62	752.3	30.25	768.3	28	— 2.2	88	e.	6	2.7	.....	.....	10 s	.....	.....	0.03	0.8	threatening	B. F. Hough.
Wilmington, N. Carolina	30.20	767.1	30.26	768.6	38	3.3	99	ne.	5	2.2	.....	.....	10 s	.....	.....	0.21	5.3	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.35	643.9	29.89	759.2	27	— 2.8	77	w.	18	8.0	.....	.....	10 n	.....	w.	0.12	3.0	light snow	J. Grover.
Yankton, Dakota	28.76	730.5	30.18	766.6	20	— 6.7	73	n.	3	1.3	.....	.....	10 ks	.....	.....	0.04	1.0	cloudy	J. H. Attfield.
Yuma, Arizona	29.90	761.0	30.11	764.8	34.5	1.4	70	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1	.....	.....	51.0	10.6	70	calm	0	0	.....	2 k	0	e.	.....	0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.12	765.0	30.13	765 3	70	21.1	92	calm	0	0	.....	0	9 s	.....	e.	0	0	cloudy	Robert Johnston.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	82	e.	.....	.....	1	.....	8 ks	e.	e.	0.070	1.8	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Colombia	29.40	746.7	29.99	761.0	79	26.1	80	calm	.....	.....	0	5 ck	1 s	calm	calm	0	0	fair	Francisco J. Cisneroz.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2cs; ck	0	ne.	.....	0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.05	763.3	30.11	764.8	37	2.8	89	calm	.....	.....	0	.....	8 ks	.....	.....	0.11	2.8	foggy	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	75	23.9	92	ne.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
York Factory H. B. A.	29.94	760.5	30.01	762 2	—28.0	—33.3	.....	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	Fortescue & Wood

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
British Naval.																		
H. M. S. Amethyst, S. 50° 35′, W. 59° 45′†	29.90	759.4	55	12.8	97	nw.			3-4		10					1	nne.	misty.
H. M. S. Audacious, N 22° 00′, E. 114° 22′	30.14	765.5	60	15.6	76	calm			0		4	ne.						d. clouds.
H. M. S. Boadicea, S. 20° 55′, —. 0° 00′	30.12	765.0				se.			1-2		2					3	sse.	d. clouds.
H. M. S. Champion, Singapore, Malay peninsula	29.86	758.4	81	27.2	91	n.			2		7	ne.				1	ne	d. clouds.
H. M. S. Cleopatra, N. 31° 15′ E. 121° 29′	30.57	776.5	19	—7.2		nw.			0-3		0							squally.
H. M. S. Comus, N. 9° 45′, W. 97° 15′	30.00	762.0	78	25.6	86	e.			2		0					1	e.	blue sky.
H. M. S. Constance, S. 3° 00′ W. 29° 58′	29.96	761.0	84	28.9		ese.			2		3					2	ese.	d. clouds.
H. M. S. Curacoa, Yokohama, Japan	29.53	750.0	46.5	8.1	69	sw.			3-7		3	sw.						squally.
H. M. Dock Yard, Bermuda, W. I.	30.32	770.1	63	17.2	71	nne.			1		7	nne.						d. clouds.
H. M. S. Dryad, N. 16° 40′, E. 96° 10′	29.91	759.7	77	25.0		calm			0		5	s.						d. clouds.
H. M. S. Eclipse, N. 9° 27′, E. 76° 01′	29.75	755.6	80	26.7		wnw.			1		1					2	ne.	blue sky.
H. M. S. Espeigle, S. 33° 51′ E. 151° 14′	30.06	763.5	67	19.4	90	s.			3		3	ne.						d. clouds.
H. M. S. Fawn, S. 22° 32′, E. 3° 20′	29.97	761.2	71.5	21.9	85	se.			2		8					2	se.	d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.17	766.3	33	0.6	90	nnw.			3-5		6							snowing.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.95	760.7	66	18.9	73	wsw.			2		1							blue sky.
H. M. S. Heroine, S. 16° 00′ W. 33° 10′	29.97	761.2	80	26.7	82	ene.			5		3	ene.				3	ene.	d. clouds.
H. M. S. Himalaya, N. 33° 47′, E. 27° 40′	29.95	760.7	64	17.8	89	wnw.			3		6					1	ssw.	d. clouds.
H. M. S. Iron Duke, N. 12° 43′, E. 44° 54′	29.94	760.5	79	26.1	78	se.			2-3		4	se.				1	se.	d. clouds.
H. M. S. Kingfisher, Callao Bay, Peru	30.01	762.2	68	20.0		se.			1		10							foggy.
H. M. S. Lark, S. 34° 45′, E. 174° 53′	30.11	764.8	69.3	20.7	97	sse.			2		5					1	ne.	misty.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	29.92	760.0	29.6	— 1.3	58	w.			2-4		2					2	w.	squally.
H. M. S. Monarch, Port Said, Egypt	29.96	761.0	71	21.7	71	se.			1		3							d. clouds.
H. M. S. Mutine, N. 5° 50′, W. 124° 34′	29.93	760.2	77.5	25.3		ene.			2		6					3	ene.	d. clouds.
H. M. S. Rocket, Valdivia, Chili	30.00	762.0	61	16.1	?	calm			0		2							blue sky.
H. M. S. Serapis, Bombay, India	29.85	758.2	80	26.7	71	w.			3		2							blue sky.
H. M. S. Superb N. 36° 50′, E. 28° 19′4	29.89	759.2	63	17.2	61	w.			2							2	w.	
H. M. S. Swiftsure, S. 5° 05′, W. 81° 07′	30.02	762.5	66	18.9	94	s.			1		3					1	s.	d. clouds.
H. M. S. Sylvia, Borja Bay, Patagonia	29.69	754.1	47.7	8.6	81	w.			2-3		8							d. clouds.
H. M. S. Tourmaline, Bombay, India	29.87	758.7				nw.			1		0							blue sky.
H. M. Tyne, N. 42° 32′, W. 9° 29′	30.34	770.6	56	13.3	80	ssw.			4		5	nnw.				3	wsw.	d clouds.
H. M. S. Woodlark, Bushire, Persia	29.91	759.7	65.5	18.6	78	s.			6-7		8	s.				4	s.	squally.
Portuguese Naval.																		
Tamega, Macao, China	30.27	768.8	60.8	16.0	74	n.			5		10		var.	0	0			overcast.
Swedish Naval.																		
Vanadis, N. 45° 30′, E. 13° 30′	29.97	761.2	48.2	9.0	70	ne.			6		6							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla*	30.01	762.2	63	17.2	94	sw.	8	3.6			10		sw.	0.47	11.9			cloudy.
Navy Yard, Portsmouth, N. H*	30.46	773.7	12	—11.1	7	nw.	2	0.9			10		nw.	0	0			cloudy.
Naval Hospital, Yokohama, Japan*	29.45	748.0	44.5	6.9	24	sw.			6		2		sw.	0	0			clear.
Adams, Sitka, Alaska†	30.52	775.2	26	— 3.3	88	e.			1		10							light snow.
Alaska, Mare Island, Cal	30.18	766.6	45	7.2	84	calm			0		0			0	0			clear.
Alliance, Cienfuegos, Cuba, W. I	30.14	765.5	73	22.8	95	e.			2		0			0	0	sm'h		clear.
Brooklyn, Keel Point, Patagonia*	29.71	754.6	58	14.4	87	wsw.	3	1.3			8		calm	0	0	sm'h		fair.
Colorado, New York, N. Y	30.47	773.9	29	— 1.7	100	ne.	2	0.9			10							light snow.
Enterprise, N. 34° 26′, W. 47° 30′*	30.25	768.3	59	15.0	87	ene.			5		8		calm			sm'h		cloudy.
Essex, Callao, Peru	29.96	761.0	67	19.4	90	sse.			1		8		sse.					fair.
Franklin, Norfolk, Va	30.23	767.8	34	1.1	90	n.	4	1.8			10			0.12	3.0			misty.
Galena, Montevideo, Uruguay*	29.98	761.5	65	18.3	83	nw.			4		8					sm'h		clear.
Hartford, S. 12° 16′, W. 77° 30′ *	29.89	759.2	68	20.0	90	ese.			3		10					sm'h	s.	foggy.
Independence, Mare Island, Cal	30.26	768.6	44	6.7	100	sw.			1		2			0	0			clear.
Iroquois, Callao, Peru	30.02	762.5	68	20.0	90	se.			1		10							overcast
Jamestown, Boston, Mass	30.47	773.9	29	— 1.7	89	nw.			1		0							misty.
Juniata, Gibraltar, Mediterranean*	30.39	771.9	60	15.6	87	calm			0		0			0	0			clear.
Kearsarge, Port of Spain, Trinidad, W. I	30.02	762.5	77	25.0	90	ene.			1		5		nne.					fair.
Lackawanna, N. 16° 15′, W. 142° 05′*	30.05	763.3	75	23.9	81	e.			4		8		ne.			mod	e.	cloudy.
Lancaster, Genoa, Italy	29.93	760.2	54	12.2	73	n.			6		5		n.					fair.
Michigan, Erie, Pennsylvania	30.27	768.8	41	5.0	100	sw.			3		10							cloudy.
Minnesota, New York, N. Y	30.34	770.6	31	— 0.6	100	e.	3	1.3			10							cloudy.
Monocacy, Nagasaki, Japan	30.15	765.8	32	0.0	89	nnw.			4		10		nw.					cloudy.
New Hampshire, Newport, R. I	30.41	772.4	28	— 2.2	88	e.			2		10		calm			sm'h		cloudy.
Nipsic, Lisbon, Portugal	30.42	772.7	57	13.9	69	ese.			2		0							clear
Onward, Callao, Peru*	30.09	764.3	66	18.9	90	se.			2		10		n.					cloudy.
Palos, Tientsin, China*	30.58	770.7	13	—10.6	100	calm			0		0							clear.
Pensacola, N. 2° 14′ W. 80° 51′*	29.86	758.4	76	24.4	90	ssw.			4		8		ssw.	0	0	mod.	ssw.	fair.
Portsmouth, Boston, Mass	30.47	773.9	21	— 6.1	?	nw.												cloudy.
Powhatan, Boston, Mass	30.45	773 4	18	— 7.8	100	nw.			1		10							cloudy.
Quinnebaug, Genoa, Italy	29.95	760.7	53	11.7	60	nne.			6		5		se.					fair.
Ranger, N. 24° 49′, W. 117° 29′ *	30.19	766 8	59	15.0	70	n.			4		5		n.	0	0	long.	n.	fair.
Richmond, Mouth Canton River, China*	30.18	766.6	57	13.9	57	nnw.			2		10			0	0			cloudy.
Saratoga, New York, N. Y	30.48	774.2	30	— 1.1	100	ne.			2		10		ne.	0	0			overcast.
St. Louis, League Island, Pa	30.34	770.6	27	— 2.8	43	nne.			1		10							drizzling.
Tennessee, Basse-Terre, St. Kitts, W. I*	30.14	765.5	81	27.2	70	ene.	13	5.8			5		ene.	0.03	0.8	sm'h		fair.
Vandalia, Samana Bay, San Domingo, W. I*	30.13	765 3	76	24.4	95	ne.			2		5		e.					fair.
Wabash, Boston, Mass	30.48	774.2	18	— 7.8	67	nw.	2	0.9			10		nw.	0	0			cloudy.
Wachusetts, Mare Island, Cal	30.19	766.8	45	7.2	92	sw.			1		0							clear.
Wyandotte, Washington, D. C	30.08	764 0	34	1.1	89	sw.			1		10		ne.	1.3	33.			cloudy.
Yantic, N. 9° 30′ W. 81° 32′	30.08	764.0	77	25.0	95	ne.			3		5					long	n.	fair.
Merchant Marine.																		
S. S. Grecian, Harve, France*	30.23	767.8	48	8.9	85	sw.			1		9		sw.	0	0			cloudy.
S. S. Nova Scotian, N. 50° 26′ W. 41° 51′	29.41	747.0	33	0.6		wnw.			5		8		nw.			long	var.	squally.
S. S. Scandinavian, N. 53° 43′, W. 26° 41	29.34	745.2	37	2 8		wsw.			6		5		wsw.	hail	hail	high	wsw.	hailing.
S. S. British Crown, N. 46° 03′, W. 34° 19′†	29.74	755.4	39	3.9		wsw.			7		8		wsw.	hail	hail	h'vy	wsw	hailing.
S. S. British Prince, N. 43° 00, W. 58° 48′†	30.36	771.1	26	— 3.3		n.			4		3		n.	0	0	sm'h	n	clear.
S. S. Indiana, N. 50° 35′, W. 21° 44′†	29.51	749.5	46	7.8	92	wnw.			5		8		nw.	rain	rain	r'gh	nw.	squally.
S. S. Lord Clive, N. 39° 02′ W. 73° 40′	30.45	773 4				ese.			4		10			0	0	sli't	ese.	cloudy.
S. S. Ohio, Philadelphia, Pa			29	— 1.7	100	n.			4		10							snowing.
S. S. Pennsylvania, N. 44° 14′ W. 54° 38′†	30.28	769.1	25	— 3.9	100	w.			4		10		wnw.	0	0	sm'h	s.	cloudy.
S. S. Jason, N. 48° 54′, W. 19° 23′			49.1	9.5		wnw.			3		5 ks					3	wnw.	gloomy.
S. S. Stella, N. 46° 51′ W. 45° 10′	29.90	759.4	25	— 3.9		w.			6		7		w.	8 h'r	8 h'r	7	wnw.	squally.
S. S. Bolivia, Glasgow, Scotland	29.76	755.9	51	10.6	86	calm			0		10			0	0			covered.
S. S. Dorian, Valencia, Spain*	30.01	762.2				var.					2		ne.	0	0			clear.
S. S. Ailsa, N. 37° 36′, W. 73° 46′†	30.39	771.9	51	10.6	93	s.			6		10		sw.	4 h'r	4 h'r	mod.	s.	overcast.
S. S. Ambrose, Amazon river, Brazil†	30.05	763.3	80	26.7		e.								3 h'r	3 h'r			fine.
S. S. Auckland, S. 47° 01′, W. 45° 01′	30.04	763.0	54	12.2	74	nnw.			3		2							blue sky.
S. S. Caldew, S. 26° 54′, E. 53° 57′	29.81	757.2	79.3	26.3	91	ene.			3		10							overcast.
S. S. City of Agra, S. 38° 18′, W. 38° 50′	29.64	752.8	63	17.2	94	ene.			6		10							showery.
S. S. Gordon Castle, N. 36° 59′, W. 8° 54′	30.33	770.4			61	n.			2-3		0					high	nw.	blue sky.
Inchkeith, N. 19° 37′, E. 87° 49′	30.00	762.0	73.6	23.1	67	nne.			3		3							d. clouds.
S. S. Scotia, Bitter Lake, Egypt	29.98	761 5	68	20.0	57	wnw.			3		5							d. clouds.
S. S. Mexico, N. 25° 09′ E. 110° 29′ †	30.16	766.1	63	17.2	72	nw.			4		0					mod.	nw.	
S. S. Bothnia, N. 50° 31′, W. 22° 54′	29.53	750.0	47	8.3	92	wnw.			4		67		w.	0	0	r'gh	w.	clear?
S. S. Gallia, N. 50° 19′, W. 21° 50′	29.02	752.3	58	14.4	64	wsw.			6		5		wsw.	sh'rs	sh'rs	long	w.	showery.
S. S. Marathon, off Cape Ann, Mass	30.45	773.4	31	— 0.6		sw.			1		5		s.	0	0	sm'h		fine.
S. S. Parthia, N. 42° 55′, W. 49° 43′	30.18	766.6	30	— 1.1	79	nw.			6		10		wnw.	12 h'r	12 h'r	cl'd		snow & hail

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																		
S. S. Rhinwidda, N. 42° 50′, W. 58° 38′ *†	30.45	773.4	33	0.6		nw.			2		2		nw.			sm'h		fine.
S. S. Canada, N. 40° 33′, W. 71° 54′	30.30	769.6	39	3.9		se.			3	ck	0	se.		0	0	sm'h	se.	cloudy.
S. S. France, N. 49° 15′, W. 26° 38′			42.8	6.0		w.			6		cs		w.	0	0	h'vy	w.	hailing.
S. S. Labradore, N. 50° 08′, W. 19° 48′			50	10.0		w.			4		6		w.	0	0	h'vy	w.	fair.
S. S. Perire, N. 47° 15′, W. 29° 41′	29.66	753.3	46.4	8.0		wnw.			6		5?		wsw.	0	0	h'vy	wsw.	cloudy.?
S. S. Ville de Marseilles, N. 29° 45′, W. 40° 05′ *†	30.15	765.8	72	22.2		n.			2		0			0	0	mod.	n.	clear.
S. S. Arizona, N. 51° 06′, W. 10° 02′	29.79	756.6	56	13.3		ssw.			4		10		w.	4 h'r	4 h'r	mod.	sw.	raining.
S. S. Wisconsin, N. 43° 15′, W. 56° 00′			26	—3.3		nw.			5		8		nw.	6 h'r	6 h'r	mod	nw.	cloudy.
S. S. Bohemia, Hamburg, Germany*†	30.30	769.6				var.			1–2		10			0	0			foggy.
S. S. Rugia, N. 40° 32′, W 69° 25′	30.53	775.4	34	1.1		var.			2		8		e.	0	0			
S. S. Silesia, Elbe river, Germany †	30.31	769.9	33.0	0.6		se.			2–3		5						sm'h	foggy.
S. S. Vandalia, Hamburg, Germany	30.29	769.4	34.3	1.3		nw.			1		10		nw.					hazy.
S. S. Archimedes, Rio de Janeiro,	29.83	757.7				calm			0		7		calm	6 h'r	6 h'r			fine.
S. S. Hevelius, N. 26° 25′, W. 21° — †	30.22	767.6	67	19.4		ne.			6		5?		ene.	0	0	long	n.	clear.?
S. S. Ptolemy, N. 7° 06′, W. 28° 17′	29.96	761.0	77.7	25.4	86	ne.			4		4k;ks			0	0			
S. S. Sirius, N. 28° 00′, W. 65° 20′						e.			3		1		e.	sli't	sli't		n.	clear.
S. S. Bulgarian, N. 47° 34′, W. 41° 21′*	29.93	760.2				wnw.			6		8		nw.	snow	snow	high	nw.	
S. S. Virginian, N. 50° 51′, W. 13° 05′*	29.70	754.4	55	12.8		sw.			6		10		wsw.	5 h'r	5 h'r	h'vy	w.	rainy.
S. S. Colorado, N. 25° 45′, W. 80° 06′ †	30.20	767.1	72	22.2		s.			4		6		s.	rain	rain	mod	s.	fair.
S. S. Rio Grande, N. 25° 28′, W. 79° 35′†	30.14	765.5	75	23.9		se.			2		4		se.	0	0	mod.	se.	fair.
S. S. Archimede, Palermo, Sicily†	29.73	755.1	63	17.2	57	nw.			3		3		nw.	0	0			fair.
S. S. Hermod, N. 41° 04′, W. 66° 32′†	30.32	770.1	37	2.8		ne.			1		4		sw.	0	0	sm'h		fair.
S. S. Alleghany, Baltimore, Md			31	—0.6		ne.			2		10			light	light			
S. S. Brooklyn, N 48° 13′ W. 35° 05′			38	3.3		nnw			6				nnw.	2 h'r	2 h'r	long	wnw.	squally.
S. S. Dominion, N. 43° 20′, W. 67° 25′*†	30.49	774.4	32	0.0		wsw.			3		2		w.	0	0	light	w.	clear.
S. S. Chalmette, N. 40° 24′, W 73° 57′ †	30.27	768.8	42	5.6		ene.			5		0		ne.	6 h'r	6 h'r	sm'h	e.	cloudy.
S. S. Denmark, N. 45° 43′, W. 37° 42′†	29.83	757.7	45	7.2		wnw.			8		5		nw.	snow	snow	h'vy	nw.	squally.
S. S. Erin, Liverpool, Eng			45	7.2		s.			9		10			6 h'r	6 h'r			gloomy.
S. S. Greece, N. 40° 53′, W. 68° 41′	30.32	770.1	36	2.2		se.			4		9		sw.	0	0	sli't	se.	dull.
S. S. Helvetia, N. 51° 29′ W. 8° 45′	29.86	758.4	44	6.7		w.			5		10		w.	0	0	long	w.	foggy.
S. S. Holland, N. 48° 36′, W. 25° 50′	29.59	751.6	45	7.2		wsw.			6		8		w.	hail	hail	h'vy	wnw.	cloudy.
S. S. The Queen, N. 41° 54′, W. 50° 21′	30.34	770.6	30	—1.1		n.			6		2		n.	snow	snow	r'gh	nnw.	clear.
S. S. Santiago, St. Jago, W. I.	30.25	768.3	76	24.4	91	calm			0		0			0	0	sm'h		fine.
S. S. City of Merida, Vera Cruz, Mexico †	29.99	761.7	78.8	26.0		se.			1		0			0	0	light	n.	fine.
S. S. City of Washington, N. 21° 58′, W. 87° 55′†	30.23	767.8	77	25.0		e.			4		2		e.	0	0	sm'h		clear.
S. S. Alpin, N. 26° 05′, W. 79° 45′	30.19	766.8	74	23.3		e.			3								nw.	misty.
S. S. America, N. 49° 11′, W. 25° 56′ *	29.67	753.6	47.0	8.3	85	w.			7		6		w.	hail	hail	h'v'y	w;sw	squally.
S. S. Braunschweig, Buenos, Ayres, Argentine Rep	29.93	760.2	66.0	18.9	89	n.			6		3		n.	0	0	light	n.	clear.
S. S. Donau, N. 42° 26′, W. 50° 04′	30.41	772.4				wnw.			5		8		wnw.	rain	rain	r'gh	wnw.	cloudy.
S. S. Hohenstaufen, S. 15° 50′, W. 38° 19′	29.93	760.2	82.4	28.0		n.			3		4		nne.	0	0	mod.	ne.	fair.
S. S. Main, N. 46° 31′, W. 38° 20′	29.79	756.7	38	3.3		wnw.			7		5		wnw.	snow	snow	h'vy	wnw.	fair.
S. S. Oder, N. 51° 07′, E. 1° 28′	30.23	767.8	48.2	9.0		ssw.			3		6		ssw.	0	0	sm'h	var.	hazy.
S. S. Salier, N. 49° 48′, W. 7° 10′	29.97	761.2	53	11.7		sw.			4		5		wsw.	0	0	h'vy	ne.	fair.
S. S. Strassburg, St. Vincent, Cape Verde Island	30.04	763.0	71.0	21.7	75	ne.			4		3		ne.	0	0	sm'h		fair.
S. S. Belgic, N. 34° 50′, E. 156° 11′ *†	29.69	754.1	64	17.8	78	sw.			4		10		w.	3 h'r	3 h'r	r'gh	w.	cloudy.
S. S. Coptic, N. 41° 29′, E. 166° 22′	29.66	753.4	35.5	1.9	85	w.			6		7		w.	rain	rain	high	wnw.	hailing.
S. S. Gaelic, N. 32° 55′, E. 134° 06′	29.81	757.2	41	5.0	91	w.			6		8		wnw.	hail	hail		wnw.	cloudy.
S. S. Oceanic, San Francisco, Cal †	30.24	768.1	43	6.1	67	w.			2									clear.
S. S. City of Augusta, Savannah, Ga†	30.20	767.1				nne.			6		10			0	0			foggy.
S. S. Willamette, Seattle, Wash. Ter †			26	— 3.3	60	n.			4		2		nne.	snow	snow			clear.
S. S. Oregon, San Francisco, Cal†	30.15	765.8	45	7.2	84	calm			0		0							clear.
S. S. Ancon, N. 33° 40′, W. 118° 23′†	30.15	765.8	52	11.1	79	wsw.			2		0					sm'h		clear.
S. S. City of Chester, San Francisco, Cal *†	30.22	767.6	48	8.9	85	w.			3		0							clear.
S. S. Dakota, New Tacoma, Wash Ter			22	— 5.6	85	n.			4		5?		n.	snow	snow	sm'h		clear.
S. S. G. W. Elder, San Francisco, Cal †	30.27	768.8	40	4.4	?	nw.			1		0			0	0			clear.
S. S. Queen of the Pacific, Portland, Oregon†	30.07	763.8				nw.			4		5?							cloudy.?
S. S. State of California, Portland, Oregon			17	— 8.3	100	e.			2		5		e.	0	0			fair.
S. S. Victoria, San Francisco, Cal *†	30.22	767.6	42	5.6		nne.			2		2		nne.					fair.
S. S. Australia, N. 37° 04′, W. 124° 21′*†	30.05	763.3	50	10.0	72	wnw.			4		3		nw.	0	0	mod.	nw.	clear.
S. S. City of New York, N 24° 50′, W. 152° 51′†	30.00	762 0	74	23.3	68	s.			4		10		s.	0	0	h'vy	nw.	cloudy.
S. S. City of Pekin, N. 30° 31′ W. 153° 01′†	29.77	756.1	67	19.4	89	s.			6		10		sw.			r'gh	s.	cloudy.
S. S. City of Rio de Janeiro N. 30° 41′, W. 117° 49′			56	13.3	69	nw.			3		3		nw.	0	0	light	nw.	fine.
S. S. City of Sydney, Sydney, N. S. W †	30.05	763.3	78	25.0	73	ne.			4		5?		ne.	0	0	sm'h		cloudy.
S. S. City of Tokei, N. 23° 28′, E. 117° 38′†	30.24	768.1	54	12.2	74	ne.			6		8?		ne.	0	0	h'vy	ne.	clear?
S. S. Colima, N. 27° 23′ W. 114° 43′†	30.06	763.5	54	12.2	87	nw.			6		0					r'gh	nw.	clear.
S. S. Colon, N. 15° 44′, W. 75° 55′†	30.08	764.0	80	26.7		ene.			6		3		e.	0	0	large	e.	fair.
S. S. Grenada, N. 11° 08′, W. 87° 06′†	29.96	761.0	79	26.1	78	ene.			4		0			0	0	sm'h	ene.	clear.
S. S. San José, N. 14° 04′, W. 91° 17′*†	30.02	762.5				wnw.			2		0			0	0	short	nne.	
S. S. Zealandia, Sydney, N. S. W*	30.14	765.5	72	22.2	85	se.			6		10		s.					rainy.
S. S. Muriel, St. Lucia, W. I*	30.10	764.5	80	26.7		e.			3		0			0	0	sm'h		fair.
S. S. Caracas, La Guayra, Venezuela †	30.12	765.0	76.5	24.7	88	calm			0		2		ese.	0	0	mod.	nne.	fine.
S. S. Claudius, N. 11° 20′, W. 78° 10′†	30.08	764.0	79.0	26.1	95	nne.			4		6		nne.	0	0	long	nne.	cloudy.
S. S. Belgenland, N. 49° 49′, W. 18° 23′†	29.79	756.7	51	10.6	79	w.			6		6		wnw.	3 h'r	3 h'r	h'vy	var.	cloudy.
S. S. Nederland, N. 44° 48′ W. 56° 55′†	30.48	774.2	26	—3.3	88	w.			6		10		w.	snow	snow	mod.	w.	showery.
S. S. Pennland, N. 43° 48′, W. 56° 03′	30.38	771.6	26	—3.3	100	w.			7		7		w.	8 h'r	8 h'r		wsw.	squally.
S. S. Rhynland, Jersey City, N. J †	30.36	771.1	30	— 1.1	78	ene.			5		10		ene.					overcast.
S. S. Waesland, N. 50° 08′, W. 3° 25′	30.15	765.8	52	11.1		sw.			4		8		sw.	sh'rs	sh'rs	mod.	sw.	cloudy.
S. S. Leerdam, N. 50° 10′, W. 14° 21′*	29.74	755.4	52	11.1	90	wsw.			6		10		sw.	8 h'r	8 h'r	long	w.	raining.
S. S. Maas, N. 51° 05′, E. 2° 30	30.07	763.8	51.8	11.0		se.			4		4		s.	1 h'r	1 h'r	3	w.	rainy.
S. S. Schiedam, N 40° 41′ W. 68° 51′	30.39	771.9	45.9	7.7	80	se.			4		9		w.	0	0	sm'h	nw.	cloudy.
S. S. W. A. Scholten, New York, N. Y	30.42	772.7				ese.			0		10		rain	rain				snowing.
S. S. State of Florida, N. 41° 37′, W. 63° 27′	30.34	770.6	35	1.7		w.			3		3		w.	0	0	sm'h		clear.
S. S. Iowa, N. 51° 18′, W. 9° 47′ *†	29.90	759.4	54	12.2		ssw.			6		10		ssw.	2 h'r	2 h'r	long	ssw.	misty.
S. S. Plantyn, N. 49° 23′, W. 16° 44′	29.71	754.6							4		2		sw.	9½h'r	9½h'r	mod.	sw.	foggy.
S. S. Adriatic, N. 47° 45′, W. 33° 18′ †	29.83	757.7	41	5.0		w.			6		6		w.	2 h'r	2 h'r	r'gh	w.	showery.
S. S. Baltic, Queenstown, Ireland*	29.83	757.7	51	10.6	93	ssw.			5		10		ssw.	shr's	shr's	sm'h		drizzling.
S. S. Lepanto, N. 45° 58′, W. 33° 46′*	29.89	759.2	38	3.3		w.			9		9		w.	rain	rain	sli't	wnw.	squally.
S. S. Marengo, N. 50° 52′, W. 18° 45′*	29.55	750.6				w.			7		6		w.	8 h'r	8 h'r	high	w.	squally.
S. S. Otranto, N 51° 37′ W. 24° 16′ †	29.64	752.8	42	5.6		wsw.			7		8		w.			long	w.	cloudy.
S. S. Romano, Boston, Mass			35	1.7		wnw.			4		3		wnw.	snow	snow			fair.
S. S. Salerno, New York, N. Y	30.36	771.1	36	2.2		ne.			4		10		ne.	3 h'r	3 h'r			cloudy.
S. S. Catherine Whiting, Philadelphia, Pa †	30.29	769.4				ne.			1									
S. S. Norman, N. 39° 40′, W. 73° 00′ †	30.46	773.7				ese.			6				se.	0	0	r'gh	se.	cloudy.
S. S. Saxon, Boston, Mass†	30.34	770.6	24	— 4.4		n.			2		10							snowing.
MISCELLANEOUS.																		
Schr. Abbie H. Gheen, Spring Wood Mills, S. C †	30.26	768.6	40	4.4		calm			0									raining.
Bk. Adelaide, S. 20° 58′, W. 38° 30′ *†	30.00	762.0	83	28.3		nne.			5		1		ne.	0	0	mod.	ne.	fair.
Bg. Alcira, N. 37° 05′, W. 73° 01′	30.18	766.6				ene.			6		10		var.	8 h'r	8 h'r	r'gh	var.	misty.
Schr. Alpha, Demerara, British Guiana *†	29.98	761.5	82	27.8		ene.			3		3			1 h'r	1 h'r			fair.
Bk. Anna A. Holton, Tampico, Mexico †	30.01	762.2	74	23.3		s.			4		10			0	0	sm'h		cloudy.
S. S. Anna Thormann, S. 19° 24′, W. 4° 30′	30.07	763.8	75.6	24.2	67	ese.			4	1 ck	0	ese.		lnap.	lnap.	mod.	se.	clear.
S. S. Antonio Lopez, Barcelona, Spain	30.01	762.2	57.5	14.2	42	nw.			2		2			0	0			fair.
Bgt. Arthur, S. 21° 33′, W. 33° 00′ *†	30.12	765.0				ne.			4		2		ne.	0	0	mod	ene.	
Schr. Annie R. Lewis, N. 30° 31′, W. 70° 30′ †	30.41	772.4	70	21.1		sw.			1		2		sw.	0	0	mod	se.	clear.
Bk. B. F. Watson, Hong Kong, China†	30.19	766.8	68	20.0		ne.			2		2		e.	0	0			clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																	
Bg. Belle of the Bay, Galveston, Texas	30.03	762.7				nw.			2		0		5 h'r	5 h'r			foggy
S. S. Benledi, N. 34° 45′, W. 76° 45′*...	30.15	765.8	68	20.0	90	s.			4		5?	sw.	sli't	sli't	short	s.	cloudy?
Bkt. Bonny Doon, N. 31° 30′, W. 18° 45′ *†	30.14	795.5				ene.			5		5	ene.	0	0	long	nw.	
Bk. Bremen, N. 32° 54′, W. 21° 45′*...	30.30	769.6				se.			5		5	se.	0	0	light	var.	fair.
Bk. Champion, Philadelphia, Pa			43	6.1		ne.			3		5	e.	0	0			fair.
Bk. Commerce, N. 36° 25° W. 21° 18′ †..	30.23	767.8	62	16.7		s.			4		2	s.	0	0	long	nw.	fine.
S. S. D. J. Foley, N. 14° 40′, W. 77° 21′*†...	30.02	762.5	81	27.2	83	e.			5		4	ese.	0	0	mod.	ene.	fair.
S. E. B. Sutton, N. 38° 00′. W. 52° 30′ †...	30.38	771.6	48	8.9	96	n.			4		10				sm'h	wnw	drizzling.
Bk. E. D. Bigelow, N. 42° 55′, W. 21° 40′*†...	29.90	759.4				wsw.			3		2	wsw.	0	0	cross	wnw	fair.
Schr. Edith R. Seward, Wilmington, N. C†...	30.11	764.8	40	4.4		ne.			1								rainy.
Bk. Edmund Phinney, S. 17° 20′, W. 34° 40′ †	30.02	762.5	80	26.7		e.			5		4		2 h'r	2 h'r	r'gh	e.	fair.
S. E. J. Spicer, N. 51° 55′. W 5° 55′	29.95	760.7	54	12.2	100	sw.			5		10	sw.	20 h'r	20 h'r	mod.	sw.	cloudy.
Bk. E. L. Pettingill, S 43° 32′, W. 113° 50′*†...	30.50	774.7	62	16.7		ese.			1		5	e.	light	light	sm'h	sw.	
Bk. Essex, Majambo, Madagascar*†	29.70	754.4	78	25.6		nw.			9				rain	rain		nw.	stormy.
Schr. F. E. McDonald, Jacksonville, Fla †...	30.11	764.8				calm			0		fg		0	0			
U. S. F. C. S. S. Fish Hawk, Washington, D. C†...	30.32	770.1	36	2.2	80	calm			0		10	calm					drizzling.
S. S. Foscolia, Dunkirk, France..						ssw.			3		0		0	0			clear.
Bk. Freya, Matanzas, Cuba, W. I....						ne.			1		1	e.	0	0			clear.
S. George Stetson, S. 9° —′, W. 34° —′ *†...	30.03	762.7	80	26.7	82	ese.			4		6	e.	0	0	chop	se.	cloudy.
Bg. Gipsey Queen, N. 28° 10′, W. 66° 12′ ...			72	22.2		ese.			5		2	e.	0	0	sm'h		fair.
S. Grecian, N. 36° 54′, W. 59° 30′†...	30.40	772.1	59	15.0	65	n.			5		6	var.	0	0	mod	nw.	cloudy.
Bk. Grey Eagle, S. 23° 31′, W. 39° 50′...	29.80	756.9				nw.			4		5		0	0			fine.
Bk. Gronsvaer, Auckland, N. Z	30.02	762.5	71.0	21.7		ne.			3		3	n.	0	0			fair.
Bk Hattie G. McFarland, Demerara, Brit. Guiana*†..	30.07	763.8	78	25.6		e.			5		4	e	3 h'r	3 h'r			showery.
Schr. Hattie Weston, N. 14° 44′, W. 61° 10′*†...	30.15	765.8	78	25.6		calm			0		8	e.	2 h'r	2 h'r	sm'h		cloudy.
S. Hedwig, N. 49° 41′, W. 5° 29′...	30.09	764.3	53.6	12.0		sw.			6		5	sw.	2 h'r	2 h'r	4	w.	fine.
Bk. Heinrich & Tonio, N. 36° 55′, W. 19° 05′...			60.5	15.8		sse.			2		0		0	0	light	nw.	clear.
Schr. Isabel Alberto, Jersey City, N. J.†...	30.38	771.6				e.			2		10	se	snow	snow			cloudy.
Schr. James Slater, N. 30° 40′, W. 56° 30*†...	30.27	768.8	69	20.6		nne.			7		10	ne.	8 h'r	8 h'r	mod.	nne.	raining.
Bk. Johanne, N. 24° 22′, W. 24° 59′ *†...	30.10	764.5	70	21.1		ene.			4		5	ene.	7 h'r	7 h'r	mod.	ene.	fair
Schr. John L. Thomas, Blanquilla, W. I*†...	30.12	765.0				ene.			3		2	e.	½ h'r	½h'r			fine.
Bkt. Josephine, S. 26° 26′, W. 25° 43′† ...	30.12	765.0	82	27.8	67	e.			4		2		0	0	sm'h		clear.
S. S. J. W. Wilson, Sabine Light, La*†...	29.92	760.0	60	15.6		sw.			1		fg.		5 h'r	5 h'r			foggy.
Light House Tender Laurel, Tampa Bay, Fla †...	30.13	765.3	65	18.3		e.			1–2		2	e.	0	0			clear.
Bk. Louise Adelaide, N. 23° 40′, W. 92° 38′...						sse.			3		0		0	0	short	se.	clear.
Bg. L. & W. Armstrong, N. 40° 30′, W. 71° 35′*†...	30.40	772.1				ene.			6		10	ne.	0	0	sm'h	ne.	overcast.
S. S. Malabar, N. 36° 00′, W. 71° 15′ *†...	30.25	768.3				nne.			4		0		0	0	str'g	nw.	clear.
Bk. Mary A. Troop, N. 40° 00′, W. 55° 45′ *†...	30.38	771.6				nnw.			4		8	n.	hail	hail	mod.	n.	cloudy.
Schr. Minnie A. Bonsall, Mayport, Fla †...	30.19	766.8	62	16.7		nne.			1		fg						foggy.
S. M. P. Grace, S. 29° 40′, W. 21° 55′ *...	30.07	763.8	80	26.7		n.			5		1	nne.	0	0	sm'h	ne.	
Bg. Myrtle, N. 14° 22′, W. 59° 28′*†...	29.98	761.5				ene.			7		1	ene.	0	0	long	ne.	fair.
Bkt. Norena, off Stirrup Cays, W. I*†...	30.33	770.4				ese.			2		1	s.	0	0	sm'h		fine.
Bg. O. C. Clary, N. 26° 12′, W. 75° 06′*†.	30.15	765.8	76	24.4	95	ese.			2		1	e.			sm'h	e.	clear.
Schr. Ocean Traveler, N. 34° 07′, W. 68° 38′ †...	30.22	767.6				sse.			7		10				r'gh	s.e	heavy rain.
Bk. Ottawa, Alicante Harbor, Spain*...	30.12	765.0	57	13.9		n.			4		0		0	0			clear.
S. Paramita, San Francisco, Cal...	30.17	766.3	22	— 5.6	17	nw.			2				0	0			clear.
Schr. Pearl Nelson, N. 15° 58′, W. 60° 36′*†...	30.10	764.5							6		3		0	0			
S. S. Peconic, N. 40° 48′, W. 57° 02′*†...	30.28	769.1	40	4.4		nnw.			4			nnw.	0	0	mod.	nnw.	cloudy.
S. S. Raleigh, N. 21° 30′, W. 77° 00′*†...	30.10	764.5	76	24.4		ne.			4		4	ne.	0	0	light	ne.	
Bk. Reindeer, St. Pierre, W. I *...	30.04	763.0				ene.			4		5	ene.	0	0			
S. Rudolph, N. 41° 50′, W. 15° 49′...			55.2	12.9		sw.			5		1	ssw	0	0	high	wnw.	hazy.
Schr. S. B. Hubbard, Jacksonville, Fla *†...	30.20	767.1	51	10.6		calm			0		10		12 h'r	12 h'r			threatening
Bk. Scud, N 14° 24′, W. 58° 46′*†...	30.06	763.5	80	26.7		ene.			6		2	ene.	0	0	long	nne.	
Bk. Southern Belle, N. 23° 26′, W. 42° 35′*†...	30.10	764.5	76	24.4		ene.			3		0		sh'rs	sh'rs	mod.	n.	clear.
S. Sovereinn of the Seas, S. 2° 12′, W. 117° 04′ *†...	30.06	763.5	75	23.9	90	sse.			2		10	se.	0	0	long	s.	overcast.
Bk. Sunbeam, N. 38° 42′, W. 9° 05′*†...	30.37	771.4	54	12.2	87	calm			0		0		0	0			clear.
S. S. Sunbeam, N. 42° 08′, W. 50° 09′...	30.34	770.6	32	0.0	95	nnw.			6		9	nnw.	snow	snow	5	nnw.	snow & hail
S. Titan, N. 20° 56′, W. 37° 56′*†...	30.15	765.8	74	23.3	86	e.			4		1	e.	½h'r	½h'r	sm'h	ne.	fair.
Bk. Wandering Jew, Montevideo, Uruguay †...	30.04	763.0	77	25.0		ne.			3		2	ne.	0	0			clear.
Bk. Winifred, N. 32° 36′, W. 56° 45′*†...	30.25	768.3				var.						nne.	0	0		nne.	fair.
Schr. Wm. Wiler, N. 29° 20′, W. 68° 45′†...	30.31	769.9				sse.			1		10	se.	0	0	mod.	se.	overcast.
Bk. Xenia, N. 22° 33′ W. 36° 51′*†...	30.22	767.6	74	23.3		e.			4		2	e.	0	0	mod	e.	clear.

International Chart I. January 17, 1883. Isobars and Isotherms.



By Order of the Secretary of War.
W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 18, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.28	769.0	62.2	16.8	85	n.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Malaterre.
Algiers	.....	.....	30.15	765.9	56.5	13.6	64	wnw.	.....	.....	2	.....	4	.....	.....	0	0	cloudy.....	Thève.
La Calle	.....	.....	29.87	758.8	56.1	13.4	68	w.	.....	.....	4	.....	5	.....	.....	0.630	16.0	cloudy.....	Fonfrède.
Tunis	.....	.....	29.84	758.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.24	768.2	50.0	10.0	72	sw.	.....	.....	1	.....	2	.....	.....	0	0	fair.....	Pérès.
Tebessa	.....	.....	29.97	761.2	39.2	4.0	93	w.	.....	.....	1	.....	4	.....	.....	0	0	cloudy.....	Dognon.
Geriville	.....	.....	.....	.....	41.0	5.0	72	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Lonchamp.
Laghouat	.....	.....	30.18	766.5	46.4	8.0	86	n.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Abraham.
Biskra	.....	.....	30.08	764.0	61.2	16.2	43	nw.	.....	.....	6	.....	4	.....	.....	0	0	cloudy.....	Malau.
Australian.																			
Melbourne, Victoria	29.95	760.7	30.04	763.0	65.0	18.3	67	ese.	6	2.7	.....	.....	2	.....	.....	0	0	fine.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.95	760.6	30.53	775.5	33.1	0.6	68	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.70	754.4	30.52	775.1	32.0	0.0	89	ne.	6.3	2.8	.....	.....	10	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.57	751.1	30.51	775.0	30.2	— 1.0	77	calm	.....	.....	0	.....	10 8	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.13	739.8	30.46	773.6	29.8	— 1.2	72	s.	.....	.....	1	.....	0	.....	.....	0.012	0.3	.....	Andreas Rospini.
Hermannstadt	29.00	736.6	30.50	774.8	37.8	3.2	56	se.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	29.01	736 9	30.45	773.3	28.4	— 2.0	94	calm	.....	.....	0	.....	10	.....	.....	0	0	foggy.....	The Staff.
Lemberg	29.50	749.4	30.57	776.5	26.2	— 3.2	57	s.	.....	.....	3	.....	2	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.94	684.2	30.42	772.6	39.6	4.2	34	calm	.....	.....	0	.....	3	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.10	764.4	30.21	767.3	43.7	6.5	39	ene.	.....	.....	3	.....	2	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	30.01	762 2	30.48	774.1	33.8	1.0	81	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	30.22	767.6	30.52	775.3	29.1	— 1.6	78	s.	.....	.....	3	.....	4	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.08	763.9	30.17	766.4	41.7	5.4	18	ne.	.....	.....	7	.....	3	.....	.....	0	0	.....	Royal Academy.
Vienna	29.75	755.7	30.51	775.0	32.4	0.2	71	calm	.....	.....	0	.....	3	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.74	755.4	29.84	757.9	43.6	6.4	71	sw.	12	5.4	.....	.....	6	.....	.....	0	0	d. clouds	W. Boswell
Armagh, Observatory	29.74	755.4	29.98	761.5	44.4	6.9	88	sw.	12	5.4	.....	.....	7	.....	.....	.....	.....	d. clouds....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.02	762.5	47.7	8.7	89	w.	12	5.4	.....	.....	3	.....	.....	.....	.....	blue sky.....	John Hartnup.
Bolton, Sharples	29 47	748.5	30.01	762.2	48.1	8.9	91	wsw.	6	2.7	.....	.....	1	.....	.....	.....	.....	blue sky.....	Thomas Mackereth.
Bradford, Yorkshire	29.62	752.3	30.02	762.5	51.0	10.6	82	sw.	.....	.....	2	.....	5	.....	.....	0.11	2.8	d. clouds.....	McLandsborough&Preston.
Bridgetown, Barbadoes	30.03	762.7	30.06	763.5	82.0	27.8	63	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds.....	Corpl. J. Surgenor, A. H C.
Cardington	.....	.....	.....	.....	53.0	11.7	90	sw.	.....	.....	2.0	.....	10	.....	.....	.....	.....	overcast.....	John McLaren.
Chatham, School M. E	30.06	763.5	30.19	766.8	49.3	9.6	93	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	raining.....	Corpl. G. A. Pickles.
Falmouth, Observatory	29.94	760.5	30.15	765.8	52.6	11.4	84	wsw.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds.....	The Staff.
Fort Napier, Natal	27.34	694.4	29.56	750.8	90.0	32.2	45	w.	.....	.....	4	.....	6	.....	.....	.....	.....	.....	Corpl. F. Milner, A. H. C.
Galway	29.90	759.4	29.94	760.5	45	7.2	84	sw.	.....	.....	3	.....	6	.....	.....	0.54	13.7	d. clouds.....	Wm. Ryan.
Gibraltar, Mediterranean	30.22	767.6	30.27	768.8	54.8	12.7	88	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	d. clouds.....	Sgt. J. Norris, A. H C.
Glasgow, Observatory	29.71	754.6	29.91	759 7	44.5	6.9	84	sw.	.....	.....	2	.....	10 k	.....	.....	.....	.....	overcast.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.98	761.5	30.16	766.1	50.5	10.3	93	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	drizzling.....	The Staff.
Guernsey	29.90	759.4	30.20	767.1	50.0	10.0	82	ssw.	.....	.....	2	.....	10	.....	.....	.....	.....	drizzling.....	A. Collenette, F. M. S
Kew, Observatory	30.13	765.3	30.16	766.1	50.3	10.2	92	ssw.	20	8.9	.....	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Leicester, Museum	29.79	756.7	30.05	763.3	53.0	11.7	89	sw.	.....	.....	1	.....	7	.....	.....	.....	.....	d. clouds.....	J. C. Smith.
Malta, Mediterranean	29.68	753.9	29.76	755.9	57.4	14.1	80	nw.	.....	.....	4	.....	10	.....	.....	0.13	3.3	overcast.....	Corpl. Keene, A. H. C
Nassau, Bahamas	30.18	766.6	30.22	767.6	73.5	23.1	87	se.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe
Oscott, St. Mary's College	29.50	749.3	30.02	762.5	52.8	11.6	83	sw.	.....	.....	5	.....	5	.....	.....	.....	.....	d. clouds.....	Rev. Jas. W. Browne
Oxford, Radcliffe Obs'y	29.88	758.9	30.11	764.8	51.0	10.6	97	sw.	.....	.....	5	.....	10	.....	.....	.....	.....	showery.....	The Staff.
Plymouth	30.06	763 5	30.14	765.5	51.1	10.6	94	sw.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds.....	John Merrifield.
Sandwick Manse, Orkneys	29.60	751.8	29.70	754.4	40.9	4.9	87	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky.....	Rev. C. Clouston, L.L. D.
Scutari Cemetery, Turkey	30.22	767.6	30.29	769.4	44.0	6.7	58	ene.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds.....	W. H. Lyne.
Sheffield	29.73	755.1	30.01	762.2	51.8	11.0	84	sw.	.....	.....	1	.....	9.	.....	.....	0.01	0.3	overcast.....	W. F. Cooper.
Silloth Rectory	29.90	759.4	29.93	760.2	46.5	8.1	83	w.	.....	.....	4	.....	2	.....	.....	0	0	d. clouds.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.02	762.5	46.3	7.9	91	w.	13	5.8	.....	.....	8	.....	.....	.....	.....	d. clouds.....	Rev. S. J. Perry.
Stratfield Turgiss	29.93	760 2	30.15	765.8	51.1	10.6	95	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	raining.....	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	30.15	765.8	30.20	767.1	54	12.2	73	sw.	.....	.....	4	.....	3	.....	.....	.....	.....	d. clouds.....	W. Newcombe.
Valencia, Observatory	30.01	762.2	30.03	762.7	49.9	9.9	70	sw.	29	13.0	.....	.....	6	.....	.....	blank	blank	misty.....	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	17	— 8.3	.....	se.	6	2.7	.....	.....	10 k8	.....	.....	.....	.....	snowing.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.30	744.2	29.35	745.5	21	— 6.1	100	n.	12	5.4	.....	.....	10 n	.....	calm	0.775	19.7	light snow..	H. J. Cundall, C. E
Chatham, N. B*	29.58	751.3	29.65	753.1	18	— 7.8	100	ne.	9	4.0	.....	.....	10 n	.....	ne.	0.64	16.3	light snow..	G. A. Blair.
Cornwall	29.73	755 1	29.94	760.5	16.0	— 8.9	75	nw.	.....	.....	3	0	7 8	.....	.....	0.30	7.6	d. clouds.....	Jas. Smith, M. A.
Dalhousie	29.70	754.4	29.76	755.9	15.0	— 9.4	.....	calm	.....	.....	0	.....	10 8	.....	.....	0	0	overcast.....	H. A. Johnson.
Father Point, Quebec*	29.76	755.9	29.78	756.4	16	— 8.9	96	ne.	30	13.4	.....	.....	10 n	.....	calm	0.20	5.1	light snow..	J. McWilliams
Fort Garry, Manitoba*	29.63	752.6	30.64	778.2	—24	—31.1	100	n.	2	0.9	.....	.....	10 n	.....	.....	0	0	cloudy	James Stewart.
Fredericton	29.55	750 6	30.62	777.7	18.5	— 7.5	92	nw.	4	1.8	.....	.....	10 n	.....	.....	0.600	15.2	light snow..	Prof. Harrison, L. L. D.
Granton	29.05	737.9	30.22	767.6	22.3	— 5.4	96	nw.	5	2.2	.....	.....	10 n	.....	.....	0.4	10.	overcast.....	Jas. Grant.
Halifax, N. S*	29.23	742.4	29.36	745.7	36	2.2	100	w.	15	6.7	.....	10 k	0	.....	.....	0.717	18.2	clearing.....	A Allison.
Hamilton	29.74	755 4	30.16	766.1	26.2	— 3.2	80	sw.	.....	.....	1	10 cs	0	sw.	.....	0.30	7.6	snowing.....	Geo. Dickson, B. A.
Kingston, Ontario*	29.71	754.6	30.08	764.0	16	— 8.9	80	w.	3	1.3	.....	0	5 8	.....	calm	0.43	10.9	fair.....	A. P. Knight, M. A
Montreal, Quebec*	29.64	752.8	29.86	758.4	17	— 8.3	87	w.	28	12.5	.....	.....	10 8	.....	.....	0.95	24.1	light snow..	C. H McLeod, C. E.
Ottawa	29.72	754.9	29.99	761.7	14.1	— 9.9	91	n.	.....	.....	2	0	6 8	.....	.....	1.30	33.0	clear.....	A. McGill, M. A.
Parry Sound, Ontario*	29.42	747.3	30.20	767.1	1	—17.2	68	w.	5	2.2	.....	0	0	.....	.....	0.38	9.7	clear.....	Rev. S. Mosley.
Peterboro	29.38	746.2	30.20	767.1	14.7	— 9.6	82	n.	.....	.....	1	0	0	.....	.....	0.40	10.2	clear.....	J. Dixon, B. A.
Port Dover, Ontario	29.49	749.0	30.23	767.8	25	— 3.9	87	w.	11	4.9	.....	8 c	0	w.	.....	0.27	6.9	fair.....	H. Morgan.
Port Stanley, Ontario	29.55	750.6	30.24	768.1	23	— 5.0	76	w.	16	7.2	.....	.....	10 n	.....	w.	0.27	6.9	cloudy	M. Payne.
Quebec, Quebec*	29.36	745.7	29.70	754.4	16	— 8.9	100	.....	.....	.....	3	.....	10 n	.....	e.	0.70	17.8	light snow..	Capt. Ashe, R. N
Rockliffe, Ontario*	29.46	748 3	29.95	760.7	12	—11.1	83	w.	3	1.3	.....	.....	10 8	.....	w.	0.79	20.1	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.44	747.8	30.21	767.3	23	— 5.0	96	n.	20	8.9	.....	.....	10 8	.....	.....	0.25	6.3	cloudy.....	
St. Andrews, N. B	29.51	749.5	30.56	776.2	21	— 6.1	92	n.	3	1.3	.....	.....	10 n	.....	.....	0.48	12.2	cloudy.....	
St. John, N. B	29.38	746.2	29.55	750.6	21.0	— 6.1	100	n.	10	4.5	.....	0	8 ks	.....	.....	0.53	13.5	d. clouds....	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.76	755.9	24.8	— 4.0	.....	se.	.....	.....	6	.....	.....	.....	.....	0	0	.....	The Commandant.
Stratford	28.85	732.8	30.22	767.6	22.0	— 5.6	92	calm	0	0	.....	.....	10 8	.....	.....	0.60	15.2	overcast.....	C. J. Macgregor, M A.
Sydney, C. B*	29.40	746.7	29.47	748.5	26	— 3.3	100	e.	13	5.8	.....	.....	10 n	.....	.....	0.60	15.2	light snow..	T. C. Hill, C. E.
Toronto, Ontario*	29.77	756.1	30.18	766.6	25	— 3.9	92	w.	7	3.1	.....	0	0	.....	.....	0.60	15.2	clear.....	Magnetic Observatory.
Windsor	29.32	744.7	29.42	747.3	27.5	— 2.5	94	w.	4	1.8	.....	.....	10 n	.....	.....	0	0	overcast.....	Prof. W H. Butler.
Woodstock	29.11	739.4	30.23	767.8	33.4	0.8	90	sw.	16	7.2	.....	.....	10 8	.....	.....	0.65	16.5	overcast.....	Prof. Wolverton, M. A.
Yarmouth, N. S*	29.51	749 5	29.58	751.3	36	2.2	89	w.	17	7.6	.....	.....	10 8	.....	w.	0.57	14.5	cloudy.....	Lt. F. E. Wilmot, R. A.
Cape Colony.																			
Cape St. Francis Lt. House	29.63	752.6	29.66	753.4	73.0	22.8	84	wsw.	7.0	3.1	.....	5 c	0	.....	.....	0	0	light haze...	John Duthie.
Springbok Fontein	27.83	706.9	.....	.....	79	26.1	65	s.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p sec	For.e.	Clouds. Amount and kind. Upper	Lower.	Direction. Upper.	Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
CHINESE (*Sub-series*).																			
Sung-shu-chwang	24.60	624.8	.....	.....	11.3	—11.5	.....	calm	.....	.....	0	.....	fg	.....	.....	.....	.....	foggy	
Tchang-kia-tchouang	30.34	770.7	30.45	773.5	21.0	— 6.1	39	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	Mission, S. J.
Zi-Ka-Wei, near Shanghai	30.53	775.4	30.55	776.0	19.9	— 6.7	73	nw.	4.5	2.0	.....	0	0	.....	.....	0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.32	770.2	30.37	771.4	34.7	1.5	94	s.	11	5	.....	.....	10	.....	.....	.....	.....	rain & fog	Oversergent Fischer.
Fanoe	30.24	768.0	30.26	768.5	29.8	— 1.2	100	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.16	740.7	29.21	741.8	14.9	— 9.5	87	nne.	.....	.....	4	.....	7	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	29.11	739.5	29.13	740.0	7.5	—13.6	.....	calm	.....	.....	0	.....	5	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.21	741.9	29.26	743.1	11.5	—11.4	.....	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.88	733.5	28.92	734.6	23.0	— 5.0	86	ne.	.....	.....	7	.....	8	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.40	746.7	29.43	747.6	39.6	4.2	82	sw.	27	12	.....	.....	7	.....	.....	.....	.....	raining	Overloerer Bergh.
Vestervig	30.06	763.6	30.15	765.9	32.7	0.4	90	se.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	29.43	747.5	29.48	748.7	— 3.5	—19.7	..	n.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	
FRENCH.																			
Agen, Normal School	29.84	758.0	30.52	775.3	41.7	5.4	94	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	M. Labroue, Director.
Alençon, Normal School	29.80	756.8	30.35	770.8	44.6	7	97	s.	.....	.....	1	.....	10	n.	n.	.....	.....	rain & fog	M. Nicot, Director.
Arras, Engineer School	30.16	766.0	30.43	772.9	36.5	2.5	89	.....	.....	.....	4	.....	10	.....	.....	0	0	covered	M. Fénéon, Command't.
Avignon, Normal School	30.16	766.1	30.24	768.1	45.7	7.6	59	n.	.....	.....	0	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.86	758.5	30.45	773.5	35.6	2.0	89	sse.	.....	.....	1	.....	10	.....	sse.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.12	765.1	30.40	772.2	40.8	4.9	93	s.	.....	.....	1	.....	10	.....	s.	0	0	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.45	748.0	30.42	772.6	38.8	3.8	87	ne.	.....	.....	1	.....	n	.....	sw	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	30.17	766.3	30.44	773.2	45.3	7.4	84	sse.	.....	.....	1	.....	8	.....	.....	0.004	0.1	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.87	758.7	30.45	773.4	40.1	4.5	92	s.	.....	.....	1	.....	fg	.....	s.	0	0	foggy	M. Maist, Director.
Brest, Naval Observatory	30.01	762.3	30.26	768.5	52.5	11.4	100	sw.	.....	.....	3	.....	10	.....	sw.	0.165	4.2	rain & fog	M. de Kermarec, Dir.
Caen, Normal School	30.20	767.1	30.28	769.1	50.0	10	89	ene.	.....	.....	1	.....	2	.....	e.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	30.07	763.8	30.41	772.3	36.9	2.7	85	se.	.....	.....	4	.....	10	.....	.....	0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.92	760.0	30.44	773.2	34.5	1.4	74	se.	.....	.....	6	.....	10	se.	.....	0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.03	737.3	30.44	773.1	41.9	5.5	69	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.58	751.2	30.47	774.0	32.9	0.5	88	w.	.....	.....	2	.....	.....	.....	w.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.55	750.5	30.46	773.7	32.7	0.4	92	w.	.....	.....	1	.....	10 n	w.	w.	0	0	foggy	Dr. Coulet, Director.
Gap, Normal School	27.71	703.8	30.34	770.5	39.2	4	73	ne	.....	.....	4	.....	0	.....	.....	0	0	.....	M. Jeangirard, Director.
Grésque, du Rhone	29.09	738.9	30.24	768.0	49.5	9.7	92	n.	.....	.....	1	.....	1	.....	sw.	0	0	.....	M. Klunt, Director.
Grenoble, Normal School	29.58	751.2	30.38	771.6	39.2	4	83	nnw.	.....	.....	2	.....	n	.....	ne.	0	0	.....	M. Ablard, Director.
Guéret	28.83	732.3	30.47	774.0	42.8	6	85	w.	.....	.....	1	.....	n	.....	.....	0.039	1.0	.....	M. Delorme, Dir.
Lamballe, Normal School	29.98	761.5	30.26	768.5	52.9	11.6	85	s.	.....	.....	2	.....	8	.....	s.	0.063	1.6	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.82	757.4	30.39	772.0	49.3	9.6	54	e.	.....	.....	2	0	1 8	.....	.....	0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.24	768.1	30.34	770.7	52.5	11.4	90	sw.	.....	.....	2	.....	10	.....	.....	0.024	0.6	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.34	745.1	30.45	773.4	34.9	1.6	90	ne.	.....	.....	1	.....	hz	.....	.....	c	0	dense haze	M. André, Director.
Mans, Normal School	30.10	764.4	30.42	772.6	43.7	6.5	98	sw.	.....	.....	1	.....	hz	.....	.....	0	0	hazy	M. Piboën, Director.
Marseille, Observatory	29.89	759.3	30.17	766.2	51.8	11.0	63	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Stephan, Director.
Montlouis	25.01	635.3	29.85	758 3	31.5	— 0.3	37	n.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	M. Caré for Dr. Fines.
Montpellier, Normal School	30.14	765.6	30.28	769.0	51.8	11	65	w.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.59	751.5	30.42	772 7	31.6	— 0.2	97	wsw.	.....	.....	1	.....	fg	.....	.....	0	0	foggy	M. Basse, Director.
Nantes, Observatory	30.25	768.3	30.41	772.5	52.9	11.6	80	ssw.	.....	.....	0–1	.....	9 k; kn	.....	sw.	0.134	3.4	.....	M. Lacroeque, Director.
Perpignan, Observatory	30.18	766.5	30.29	769.4	51.1	10.6	4(	nw.	37.4	16.7	.....	.....	0	.....	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.31	541.3	.....	.....	21.2	— 6.0	.....	ne.	.....	.....	2	.....	1	.....	se.	0	0	clear	M. Vaussenat.
Privas, Normal School	29.23	742.5	30.34	770.7	41.4	5.2	69	n.	.....	.....	1	.....	5	n.	n.	0	0	cloudy	M. Taillen.
Puy de Dôme Obs'y, Summit	25.36	644.0	.....	.....	26.4	— 3.1	80	nne.	.....	.....	3	.....	0	.....	.....	0	0	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.36	771.1	30.39	771.9	47.5	8.6	94	s.	.....	.....	1	.....	10	.....	.....	0.31	8.	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.16	766.0	30.38	771.7	48.0	8.9	97	sw.	.....	.....	1	.....	10	.....	.....	0.08	2.	covered	M. Brotier, Director.
Rodez, Normal School	28.21	716 4	30.47	774.0	30.2	— 1.0	96	.....	.....	.....	.....	.....	0	.....	.....	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.28	769.0	30.32	770.2	44.2	6.8	91	se.	.....	.....	1	.....	10	se.	.....	0.012	0.3	covered	M. Moullot.
Saint Lô	.....	.....	.....	.....	48.7	9.3	90	sw.	.....	.....	1	.....	5	.....	w.	0.004	0.1	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	30.24	768.0	30.40	772.2	37.6	3.1	100	s.	.....	.....	1	.....	10	.....	.....	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.75	755.6	30.48	774.2	44.8	7.1	76	wnw.	.....	.....	1	.....	2	nw.	.....	0	0	slightly cl'dy	M. Baillaud, Director.
Tours	30.22	767.6	30.40	772.1	45.7	7.6	91	sw.	.....	.....	1	.....	10	.....	sw.	0.024	0.6	covered	M. de Tastes.
Versailles, Observatory	29.88	759.0	30.37	771.5	39.9	4.4	97	sw.	.....	.....	1	.....	.....	.....	.....	0 008	0.2	.....	Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	30.30	769 5	30.45	773.3	48.4	9.1	70	n.	9.8	4.4	.....	0	0	.....	.....	0	0	clear	M. Cartier, Director.
GERMAN.																			
Ansbach	28.93	734.7	30.46	773.7	33.4	0.8	95	s.	.....	.....	2	.....	10	s.	.....	0.016	0.4	.....	Prof. Jnedt.
Bamberg	29.52	749.8	30.37	771.5	35.1	1.7	80	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	30.30	769.5	30.45	773.4	36.3	2.4	72	se.	.....	.....	2	.....	10	.....	.....	0	0	.....	Dr. Lensch.
Breslau	29.93	760.3	30.47	774.0	36.1	2.3	79	sse.	.....	.....	2	.....	4	.....	.....	0	0	foggy	Royal University Obs'y.
Carlsruhe	29 96	761.0	30.43	772.8	37.0	2.8	92	sw.	.....	.....	1	.....	10	.....	.....	0	0	foggy	Albert Senz.
Cassel	29.60	751.9	30.32	770.0	36.7	2.6	75	s.	.....	.....	1	.....	10	.....	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	30.04	763.0	30.43	772.9	36.9	2.7	91	ese.	.....	.....	1	.....	10	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.92	734.5	30.42	772.6	38.1	3.4	83	ssw.	.....	.....	1	.....	10	sw.	.....	0.102	2.6	raining	Wilhelm, Chief Tel.
Hamburg	30.31	769.8	30.40	772.1	35.8	2.1	91	se.	.....	.....	2	.....	4	.....	.....	0.004	0.1	.....	E. Preller.
Kiel	30.34	770.5	30.35	770.9	37.0	2.8	88	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	30.00	762.0	30.45	773.3	34.3	1.3	87	se.	.....	.....	1	.....	10	.....	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	30.21	767.4	30.42	772.6	34.3	1.3	92	sse.	.....	.....	1	.....	10	.....	.....	0	0	foggy	Weather Observatory.
Memel	30.49	774.4	30.54	775.6	25.7	— 3.5	93	s.	.....	.....	4	.....	10 s	.....	.....	.....	.....	snowing	Issermann.
Munich	28 52	724.4	30.41	772.3	32.2	0.1	88	se.	.....	.....	1	.....	10	.....	.....	0.083	2.1	.....	Central Station.
Neufahrwasser	30.52	775.1	30.53	775 5	32.4	0.2	85	se.	.....	.....	2	.....	10	ssw.	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.85	758.3	30.39	771.8	38.8	3.8	92	calm	.....	.....	0	.....	10	.....	.....	0	0	dense fog	Dickmether.
Stuttgart	29.43	747.4	30.36	771.2	36.9	2.7	91	ne.	.....	.....	1	.....	10	.....	.....	0	0	foggy	Prof. Dr. Schoder.
Wustrow	30.42	772.6	30.44	773.2	34.9	1.6	89	se.	.....	.....	2	.....	10 s	.....	.....	0	0	.....	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.65	753.1	30.05	763.2	48.2	9.0	.....	ne.	.....	.....	6.0	.....	10	.....	.....	0.012	0.3	sprinkling	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.95	760.7	30.00	762.0	76.5	24.7	42	wsw.	12.0	5.4	.....	.....	0	.....	.....	0	0	blue sky	
Deesa	29.42	747.3	29.90	759.3	82.8	28.2	27	wsw.	5.0	2.2	.....	.....	0	.....	.....	0	0	hazy	
Bombay	29.84	757.8	29.87	758.8	81.8	27.7	58	w.	12.0	5.4	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.02	711.7	29.87	758.7	80.0	26.7	23	e.	13.0	5.8	.....	.....	2	.....	ssw.	0	0	d. clouds	
Belgaum	27.33	694.2	29.87	758.7	76.0	24.4	30	ese.	6.0	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.22	742.2	30.00	761.9	61.6	16.4	46	calm	0	0	.....	.....	3	.....	.....	0	0	d. clouds	
Roorkee	29.05	737.9	29.98	761.5	64.8	18.2	44	calm	0	0	.....	.....	3	.....	w.	0	0	.....	
Agra	29.43	747.5	30.02	762.4	68.3	20.2	42	n.	.....	.....	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.90	733.9	29.94	760.5	79.5	26.4	32	calm	0	0	.....	.....	2	sw.	.....	0	0	d. clouds	
Jubbulpore	28.61	726.7	29.99	761.7	73.8	23.2	46	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.61	752.2	30.00	762.1	67.3	19.6	44	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.67	753.6	30.00	761.9	61.8	16.6	69	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.80	756.9	30.00	761.9	64.8	18.2	41	w.	5.1	2.3	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.94	709.7	30.03	762.8	60.2	15.7	45	wnw.	8.3	3.7	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.90	759.5	29.99	761.6	74.5	23.6	62	ene.	1.0	0.4	.....	.....	2	.....	.....	0	0	d. clouds	
Calcutta, Alipore	29.97	761.3	29.99	761.8	69.7	20.9	46	nnw.	0.5	0.2	.....	.....	1	.....	.....	0	0	d. clouds	
Dhubri	29.89	759.3	30.02	762.4	67.0	19.4	50	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.99	759 4	29.99	761.7	69.8	21.0	63	w.	2.3	1.0	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.63	752.7	29.98	761.6	61.0	16.1	83	sw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Jeypore	28.52	724.3	29.99	761.7	70.5	21.4	55	wsw.	0.8	0.4	.....	.....	7	w.	.....	0	0	d. clouds	
Bellary	28.41	721.6	.....	.....	81.4	27.4	33	se.	4	1.8	.....	2c	0	.....	.....	0	0	blue sky	
Trichinopoly	29.64	752.8	.....	.....	80.6	27.0	57	ene.	2	0.9	.....	.....	4	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.87	758.6	30.29	769.3	43.5	6.4	31	ne.	8.7	3.9	.....	.....	0	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.78	756.4	30.32	770.1	42.8	6.0	76	se.	3.1	1.4	.....	.....	2	.....	.....	0.012	0.3	.....	Prof. Schiapparelli.
Padua	30.16	766.0	30.27	768.9	44.4	6.9	43	nne.	11.2	5.0	.....	.....	1	e.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.39	746.4	30.33	770.4	35.6	2.0	96	nw.	5.6	2.5	.....	.....	10	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.98	761.5	30.17	766.4	46.0	7.8	48	n.	12.5	5.6	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.34	719.7	30.32	770.2	37.8	3.2	76	w.	.....	.....	2	.....	9	.....	.....	0.016	0.4	.....	Prof. D. C. Bruno.
Pesaro	30.12	765.0	30.17	766.3	45.0	7.2	97	ene.	18.1	8.1	.....	.....	10	.....	.....	0.138	3.5	.....	Prof. Luigi Guidi.
Florence	29.89	759.2	30.15	765.8	46.2	7.9	51	ne.	.....	.....	6	.....	0	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.98	761.4	30.06	763.6	48.2	9.0	53	ene.	11.9	5.3	.....	.....	1	ene.	.....	0	0	.....	Prof. P. Monte.
Rome	29.83	757.7	30.01	762.2	52.5	11.4	62	n.	3.6	1.7	.....	.....	7	.....	.....	0.028	0.7	.....	Prof. P. Tachini.
Lecce	29.76	755.8	30.01	762.3	51.6	10.9	77	nnw.	6.3	2.8	.....	.....	9	.....	.....	0.370	9.4	.....	Prof. C. de Giorgi.
Cosenza	28.98	736.1	29.88	758.9	51.4	10.8	75	sw.	2.5	1.1	.....	.....	9	w.	.....	0.102	2.6	.....	Prof. D. Conti.
Cagliari	29.79	756.5	29.98	761.5	59.5	15.3	59	nw.	.....	.....	2	.....	5	e	.....	0.122	3.1	.....	Prof. A. Pacinotti.
Palermo	29.60	751 9	29.85	758.3	53.5	12.0	89	ne.	0.7	0 3	.....	.....	10	ne.	.....	0.957	24.3	.....	Prof. G. Cacciatore.
Syracuse	29.71	754.7	29.76	755.8	55.0	12.8	81	ene.	16.1	7.2	.....	.....	10	ne.	.....	0.250	6.5	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.47	748.4	30.00	762.0	50.7	10.4	66	ne.	19.0	8.6	.....	.....	9	e.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.24	564.8	.....	.....	20.8	— 6.2	71	e.	.....	.....	2	.....	0	.....	.....	0	0	clear.....	Prof. P. F. Denza.
Valdobbia	22.25	565.2	.....	.....	27.0	— 2.8	69	e.	.....	.....	2	.....	0	.....	.....	0	0	clear.....	Prof. P. F. Denza.
JAPANESE.																			
Arita	29.43	747.4	29.46	748.2	29.5	— 1.4	100	nw.	.....	.....	6	.....	10 n	.....	.....	0.488	12.4	snowing.....	Hattori.
Awomori	29.30	744.1	29.33	745.1	26.5	— 3.1	72	nw.	8.1	3.6	.....	.....	10 8	.....	.....	0.005	0.1	overcast.....	K. Ogawa.
Hakodate	29.30	744.2	29.31	744.5	29.0	— 1.7	82	nnw.	39.0	17.4	.....	.....	10	.....	.....	0.050	1.3	snowing.....	
Hamamatsu	29.82	757.4	29.85	758.1	28.0	— 2.2	70	w.	.....	.....	2	0	0	.....	.....	0	0	clear.....	
Kagoshima	30.16	766.0	30.17	766.3	31.0	— 0.6	96	n.	.....	.....	2	3 cs	0	.....	.....	0.067	1.7	fair.....	G. Miyanohara.
Kioto	29.72	755.0	29.91	759.8	23.6	— 4.7	100	w.	0.8	0.4	.....	3 ck	0	nw.	.....	0.008	0.2	clear.....	M. Tojima.
Kochi	29.97	761.3	30.00	761.8	31.8	— 0.1	62	w.	7.9	3.5	.....	1	1	w.	.....	0	0	clear.....	K. Kusunose.
Misaska	30.07	763.9	30.11	764.7	32.6	0.3	73	w.	.....	.....	2	0	0	.....	.....	0	0	clear.....	K. Masusaki.
Nagasaki, I. M. Obs'y	29.97	761.1	30.18	766.6	31.9	— 0.1	75	n.	10.8	4.8	.....	1 cs	9 n	w.	nw.	0.070	1.8	light hail ...	S. Takehayashi.
Niigata	29.64	752.8	29.68	753.9	29.6	— 1.3	80	wnw.	26.9	12.0	.....	.....	10 n;ck	.....	wnw.	0.235	6.0	light snow...	M. Moritu.
Nobiru	29.44	747.9	29.46	748.3	28.6	— 1.9	96	nw.	27.5	12.3	.....	.....	10 n	.....	.....	0.220	5.6	snowing.....	H. Midzushina.
Numazu	29.72	754.9	29.76	755.8	32.1	0.1	81	nw.	.....	.....	4	0	0	.....	.....	0	0	clear.....	R. Kaneda.
Sakai	29.98	761.5	29.99	761.8	29.0	— 1.7	80	w.	.....	.....	2	.....	10 n	.....	w.	1.283	32.6	raining	K. Yamawchi.
Sapporo	.....	.....	.....	.....	22.5	— 5.3	72	nw.	26.1	11.6	.....	.....	10	.....	.....	0.258	6.5	covered.....	
Tokei Obs'y, Yeddo	29.67	753.5	29.74	755 5	26.5	— 3.1	44	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	The Staff.
Wakayama	29.87	758.8	29.93	760.2	32.8	0.4	73	nw.	15.5	6.9	.....	0	6ck;ks	.....	wnw.	0.044	1.1	fair.....	Y. Kuwamura.
Osaka	29.90	759.5	29.92	759.9	27.9	— 2.3	82	n.	7.5	3.3	.....	1 cs	8 s	.....	w.	0	0	cloudy.....	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.68	753 9	29.87	758.7	79.0	26.1	85	ene.	13.0	5.8	.....	.....	1on;ks	.....	ene.	0.21	5.3	overcast.....	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	49	9.4	89	nw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	cloudy.....	H. Diaz Pena.
Guanajuato	23.68	601.6	29.90	759.6	55.0	12.8	80	nne.	Imap.	map.	.....	5 c;ck	3 n	sw.	sw.	0.165	2.7	cloudy.....	Prof. Vicente Fernandez.
Leon	24.35	618.5	30.10	764.5	52.9	11.6	82	n.	.....	.....	1	8 c	2 ks	.....	.....	0	0	covered.....	Prof. M. Leal.
Mazatlan	29.80	756.8	30.06	763.6	66.5	15.8	85	nnw.	1.6	0.8	.....	0	0	.....	.....	Imap.	Imap.	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	587 0	30.27	768.8	47.7	8.7	71	calm	0	0	.....	0	0	.....	.....	0	0	very fine.. ..	The Staff.
Morelia	24.26	616.2	30.13	765.2	44.2	6.8	65	se.	.....	.....	1	1 k	3 k	s.	se.	0	0	clear.....	M. Tena, M. D.
Pabellon	23.97	608.8	30.07	763.8	50.9	10.5	74	sw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Puebla, Catholic Institute	23 45	595.7	30.26	769.0	48.2	9.0	72	ne.	0.4	0.2	.....	0	3	.....	s.	0	0	½ cloudy	Prof. P. Spina.
Zacatecas	22.53	572.2	30.26	768.6	46.2	8.0	77	sw.	10.8	4.8	.....	0	0	.....	.....	0	0	fine.....	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.30	769.6	30.30	769.6	41.2	5.1	.....	s.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Gronlingen	30.23	767.8	30.28	769.2	37.0	2.8	.....	s.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.20	769.4	30.29	769.4	40.3	4.6	91	s.	.....	.....	3	.....	.....	.....	.....	0.035	0.9	.....	
Utrecht	30.28	769.1	30.33	770.3	38.5	3.6	90	s.	.....	.....	2	.....	.....	.....	.....	0.055	1.4	raining.....	H. van der Brink
Sub-series.																			
Batavia, Java	29.84	757.8	.....	.....	76.8	24.9	88	nnw.	1.5	0.7	.....	.....	10	.....	.....	2.95	75.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.80	757.0	29.87	758.6	42.1	5.6	91	s.	29	13	.....	.....	10	.....	.....	1.949	49.5	raining.....	
Brono	29.55	750.6	29.59	751.6	40.8	4.9	58	ssw.	18	8	.....	.....	10	.....	.....	0.071	1.8		
Christiania	29.97	761.2	30.12	765.1	34.2	1.2	90	ssw.	11	5	.....	.....	10	.....	.....	0.004	0.1	rain & snow	
Giesvaer	29.48	748.8	29.50	749.4	38.5	3.6	.....	sw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	
Lodingen	29.59	751.5	29.63	752.7	39.4	4.1	77	sw.	.....	.....	4	.....	10	.....	.....	0.366	9.3	raining.....	
PORTUGUESE.																			
Angra, Azores	29.78	756.4	29.94	760.4	60.1	15.6	96	calm	0	0	.....	.....	6	.....	.....	0.610	15.5	.....	Dr. J. A. Sampaio.
Campo Major	29.34	745.2	30.37	771.4	49.6	9.8	66	ese.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.12	765.0	30.21	767.3	63.1	17.3	58	se.	9.8	4.4	.....	.....	0	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.00	762.1	30.38	771.6	47.7	8.7	67	ne.	11.9	5.3	.....	.....	1	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.02	762.5	30.09	764.3	62.6	17.0	80	ssw.	14.3	6.4	.....	.....	10	.....	.....	0	0	.....	
Saint Paul de Loando	29.68	753.9	29.88	759.0	80.2	26.8	85	n.	0.7	0.3	.....	.....	10	.....	.....	0	0	.....	
Serra da Estrella	25.50	647.7	30.36	771.1	40.5	4.7	64	calm	0	0	.....	.....	0	.....	.....	7.638*	194.0*	.....	
RUSSIAN.																			
Akmolinskt	28.75	730.2	29.96	761.0	— 5.3	—20.7	86	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	.....	Major K. Lasarew.
Archangel	30.01	762.2	30.03	762.7	15.4	— 9.2	91	wsw.	13	6	.....	.....	10	.....	.....	0	0	.....	Capt. Sselliwerstow.
Ashurada	30.47	773.9	30.37	771.5	28.9	— 1.7	92	e.	9	4	.....	.....	10 n	.....	.....	blank	blank	.....	
Astrakhan	30.93	785.6	30.85	783.5	—15.9	—26.6	64	n.	13	6	.....	0	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.52	775.1	30.47	773.9	18.0	— 7.8	86	nnw.	45	20	.....	.....	10 n	.....	.....	0.079	2.0	.....	
Barnaul	29.63	752.6	30.20	767.0	— 8.0	—22.2	80	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Bielosersk	29.90	761.0	30.48	774.3	5.2	—14.9	91	wsw.	7	3	.....	.....	9 s	.....	.....	0	0	.....	
Dorpat	30.27	768.8	30.54	775.6	14.9	— 9.5	100	s.	4	2	.....	.....	10 n	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.11	739.3	30.25	768 3	—20.9	—32.7	73	w.	18	8	.....	.....	10	.....	.....	0.004	0.1	.....	Meteorological Obs'y.
Elisawetgrad	30.35	770.8	30.85	783.0	9.1	—12.7	65	nne.	4	2	.....	0	0	.....	.....	0	0	.....	
Irkutsk	28.67	728.2	30.53	775.5	— 4.7	—20.4	85	calm	.....	.....	0	.....	4	.....	.....	0	0	.....	
Kasan	30.35	771.0	30.68	779.2	—23.0	—30.9	68	s.	2	1	.....	6 cs	0	.....	.....	0.024	0.6	.....	Observatory.
Kem	29.98	761.5	30.03	762 8	21.0	— 6.1	93	w.	13	6	.....	.....	10 ks	.....	.....	0	0	heavy cl'ds..	
Kertch	30.65	778.5	30.67	779.0	13.1	—10.5	83	nw.	7	3	.....	0	2 k	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	30.09	764.2	30.80	782.4	8.2	—13.2	68	se.	7	3	.....	0	0	.....	.....	0	0	.....	Observatory.
Koslov	30.21	767.4	30.81	782.6	1.9	—16.7	95	sw.	9	4	.....	.....	10 s	.....	.....	0	0	.....	
Liban	30.47	774 0	30.50	774.6	26.4	— 3.1	85	se.	9	4	.....	.....	10	.....	.....	0	0	.....	E. Quass.
Lugan	30.62	777.8	30.83	783.1	7.9	—13.4	68	ese.	9	4	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	30.18	765.7	30.70	779.7	4.1	—15.5	65	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Nikolaiev	30.73	780.6	30.81	782.5	10.8	—11.8	82	ene.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amour	30.10	764.6	30.19	766 8	—28.5	—33.6	70	calm	0	0	.....	.....	10	.....	.....	0	0	.....	Iwanow.
Pekin, China	30.27	768 9	30.41	772.5	18.3	— 7.6	38	calm	0	0	.....	0	0	.....	.....	0	0	.....	Physicla Observatory.
Petrozavodsk	30.10	764.5	30.32	770.0	13.1	—10.5	90	sw.	11	5	.....	c	9 k	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	30.12	765.0	30.66	778.7	24.4	— 4.2	50	se.	13	6	.....	0	4 s	.....	.....	0	0	.....	
Pott	30.17	766.2	30.19	766.7	37.4	3.0	78	e.	9	4	.....	.....	10 n	.....	.....	0.587	14.9	raining.....	
St. Petersburg	30.46	773.6	30.47	774.0	15.8	— 9.0	78	sw.	7	3	.....	.....	9 ks;n	.....	.....	Imap.	Imap.	light clouds	Central Physical Obs'y.
Samarkand	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Sevastopol	29.32	779.0	30.48	774.2	31.6	— 0.2	54	ne.	4	2	.....	0	0	.....	.....	0	0	.....	
Semipalintinsk	29.38	746.3	30.13	765.2	—11.2	—24.0	91	e.	4	2	.....	.....	5	.....	.....	0	0	.....	Major Lasarew.
Staroi Bykhov	30.28	769.1	30 79	782.1	15.3	— 9.3	35	se.	7	3	.....	.....	.....	.....	.....	0	0	hazy.....	
Tiflis	28.87	733 2	30.39	771.8	20.6	— 3.0	76	calm	0	0	.....	.....	10	.....	.....	0.154	3.9	snowing.....	Physical Observatory
Tomsk	29.96	760.9	30.28	769.0	—11.9	—24.4	81	e.	2	1	.....	.....	10	.....	.....	.....	.....	light clouds	
Vlatka	29.71	754.5	30.44	773.1	—15.0	—26.1	.....	w.	4	2	.....	.....	10	.....	.....	0.051	1.3	.....	
Warsaw	30.09	764.2	30.54	775.7	29.1	— 1.6	72	s.	7	3	.....	0	2 s	.....	.....	0	0	.....	Astronomical Obs'y.

* Total for 7 days.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Wilna	30.17	766.2	30.63	777.9	18.9	— 7.3	61	s.	2	1			2			0	0	light clouds	Berg, Assistant.
Yeniseisk	30.11	764.9	30.45	773.3	—12.5	—24.7	83	w.	4	2			2			0.118	3.0		M. O. Marks.
Scottish.																			
Monach Lt			29.64	752.8	43	6.1	91	sw.			6		10			0.2	5.	gloomy	J. Youngclause.
North Unst			29.63	752.6				w.			4		8			blank	blank		Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.16	766.0	30.27	768.8	50.7	10.4	63	se.	2.0	0.9		0	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.39	771.9	30.45	773.4	53.6	12.0	78	se.	0.4	0.2		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.37	695.2	30.47	773.8	41.5	5.3	85	n.	1.3	0.6			3			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	28.08	713.1	30.39	772.0	44.1	6.7	72	ne.	0.9	0.4		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.15	765.8	30.28	769.1	57.2	14.0	65	sw.	1.6	0.7		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.55	750.6	30.43	772.8	41.0	5.0	81	sw.	5.8	2.6		0	0			0	0	clear	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.42	747.3	30.34	770.6	51.6	10.9	81	calm	0	0			0			0.004	0.1	clear	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.95	760.6	30.00	762.0	74.0	23.3	77	nne.	2.5	1.1		0	1 ks		ne.	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.20	767.1	30.30	769.7	53.2	11.8	67	calm	0	0		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I.	30.04	762.9	30.13	765.2	77.7	25.4	73	calm	0	0		1 s	2 k	se.	se.	0.098	2.5	clear	Manuel Maese.
Swedish.																			
Haparanda	29.90	759 4	29.94	760 4	27.7	— 2.4	96	s.			2		10			0	0		
Umea	29.94	760.5	29.99	761.8	33.1	0.6	89	sw.			4		10			0	0		
Hernosand	29.98	761.6	30.04	762.9	33.4	0.8	89	sw.			4		6			0	0		
Stockholm	30.10	764.6	30.28	769.1	32.4	0.2	96	sw.			4		10			0.016	0.4		
Wisby	30.30	769.5	30.35	771.0	35.2	1.8	90	sw.			2		10			0.012	0.3		
Sub-series.																			
Upsala	30.18	766.5	30.26	768.7	32.2	0.1	92	ssw.	15.7	7.0			10			0.020	0.5		S. G. Fineman.
Swiss.																			
Geneva	28.91	734.3	30.37	771.5	41.5	5.3	75	nne.			1		4			0	0	cloudy	The Observatory.
Turkish.																			
Constantinople			30.33	770.4	43.3	6.3	60	ene.	40	18.0			7		ene.	0	0		The Observatory.
Valona			30.03	762.8	52.0	11.1		ne.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.01	762.2	63.0	17.2	62	n.			1		1 k		n.	0.24	6.1		Prof. C. V. A. van Dyck.
Samokov, Bulgaria	27.01	686.0			26	— 3.3	85	ne.			1	0	9 n		nw.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.91	759.7	30.00	762.0	37	2.8	51	nw.	14	6.3			10 8			0.16	4.1	cloudy	J. O. Barnes.
Alpena, Michigan	29.56	750.8	30.27	768.8	13	—10.6	80	nw.	6	2.7		0	0			0.35	8.9	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.84	630.9	29.96	761.0	27	— 2.8	70	ne.	12	5.4			10 8		w.	0	0	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.36	694.9	30.40	772.1	—30	—34.4	42	sw.	10	4.5		0	0			0.05	1.3	clear	B. O. Lenoir.
Atlanta, Georgia	28.89	733.8	30.12	765.0	48.0	8.9	100	se.	5	2.2			fg.			0.46	11.7	dense fog	H. C. Smith.
Atlantic City, New Jersey	30.08	764.0	30.09	764.3	35	1.7	84	nw.	8	3.6			10 8			0.60	15.2	cloudy	Jas. M. Watson.
Augusta, Georgia	29.97	761.2	30.17	766.3	47	8.3	93	nw.	2	0.9			10 8		sw.	0.94	23.9	cloudy	John Henly.
Baltimore, Maryland	30.10	764.5	30.15	765.8	41	5.0	57	w.	6	2.7			10s;fg		w.	0.57	14.5	cloudy	Geo W Felger.
Barnegat, New Jersey	30.06	763.5	30.08	764.0	35.0	1.7	89	w.	15	6.7		9 cs	0	w.		0.55	14.0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.66	753.4	29.68	753.9	29.6	— 1.3		ne.	34	15.2			10 n			0.01	0.3	cloudy	Leonard Steineger.
Bennett, Fort, Dakota	28.80	731.5	30.54	775.7	—16	—26.7	100	n.	8	3.6			10 n		nw.	0.07	1.8	light snow	A. Pritchard.
Benton, Fort, Montana	27.50	698.5	30.48	774.2	—26	—32.2	24	calm	0	0			0			0	0	clear	S. Wheaton.
Billings, Montana	26.94	684.3			—28	—33.3		nw.	3	1.3			10 8			0.05	1.3	cloudy	T. Gibson.
Bismarck, Dakota	28 53	724.6	30.52	775.2	—21	—29.4	100	n.	8	3.6			10 8			inap.	inap.	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.80	758.4	29.90	759.4	38	3.3	89	w.	25	11.2		5 cs	0	w.		0.73	18.5	fair	J. T. Elker.
Boise City, Idaho	27.64	702 0	30.57	776.5	—22	—30.0		se.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.67	753.6	29.84	757.9	38.0	3.3	72	w.	16	7.2		0	5 8		w.	0.23	5.8	fair	O. B. Cole.
Brownsville, Texas	29.82	757.4	29.87	758.7	54.3	12.4	86	n.	5	2.2		0	6 8			0.02	0.5	fair	M. McCarty.
Buffalo, New York	29.40	746.7	30.20	767.1	28.3	— 2.1	79	sw.	17	7.6		5 ck	2 8	w.	w.	0.32	8.1	fair	W. Finn.
Buford, Fort, Dakota	28.40	721.3	30.60	777.2	—34	—36.7	100	calm	0	0		0	0			0.03	0.8	clear	F. A. Mellen.
Burlington, Vermont	29.61	752.1	29.92	760.0	26.6	— 3.0	89	w.	18	8.0			10 8		w.	0.17	4.3	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.83	757.7	30.25	768.3	27.0	— 2.8	82	e.	12	5.4			10 8		e.	0	0	cloudy	W. H. Ray.
Cape Henry, Virginia	30.14	765.5	30.16	766.1	38	3.3	100	w.	7	3.1			10 8			0.41	10.4	cloudy	A. K. Alderson.
Cape May, New Jersey	30.10	764 5	30.13	765.3	35.0	1.7	89	w.	6	2.7			10 8		sw.	0.56	14.2	cloudy	W. E. Smith.
Cape Mendocino, California	29.51	749.5	30.21	767.3	35.5	1.9	65	nw.			7	6 k	0	nw.		0.04	1.0	fair	J. J. McLean.
Cedar Keys, Florida	30.09	764.3	30.11	764.8	62	16.7	93	s.	9	4.0			fg.			0.05	1.3	dense fog	F. W. Mixer.
Champaign, Illinois	29.43	747.5	30.30	769 6	15.0	— 9.4	67	nw.	7	3.1		0	6 8		nw.	0.02	0.5	fair	L. A. Welsh.
Charleston, S. Carolina	30.08	764.0	30.14	765.5	54	12.2	100	calm	0	0			fg.			0.10	2.5	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.24	742.7	30.13	765.3	39.0	3.9	100	sw.	2	0.9			fg.			0.95	24.1	dense fog	D. O'Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.14	765.5	44.0	6.7	93	ne.	9	4.0			10 n		n.	0.08	2.0	light rain	B. L. Goulding.
Cheyenne, Wyoming	23.69	601.7	29.94	760 5	—19.8	—28.8		n.	8	3.6			10 8			0.01	0.3	cloudy	E. McGovern.
Chicago, Illinois	29.57	751.1	30.32	770.1	12.9	—10.6	80	w.	2	0.9		0	0			0.01	0.3	clear	J. Mitchell.
Chincoteague, Virginia	30.10	764.5	30.12	765.0	34	1.1	100	w.	6	2.7			10s;fg			0.25	6.3	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.65	753.1	30.34	770.6	31	— 0.6	83	n.	8	3.6		0	0			0.11	2.8	clear	R. B. Watkins.
Cleveland, Ohio	29.53	750.0	30.31	769 9	25.5	— 3.6	88	nw.	13	5.8		0	1 k		nw.	0.22	5.6	clear	J. B. Newlin.
Coleman City, Texas	28.08	713.2	29.96	761.0	29	— 1.7	88	sw.	2	0.9		0	3 8			0	0	clear	L. Dorman.
Columbus, Ohio	29.42	747 3	30.32	770.1	30	— 1.1	77	n.	8	3.6			10 8		ne.	0.09	2.3	cloudy	D. Cuthbertson.
Concho, Fort, Texas	27.90	708.6	29.92	760.0	39.0	3.9	57	sw.	6	2.7		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.58	751.3	30.29	769.4	6	—14.4	52	ne.	2	0.9		0	fg.			0	0	clear	W. B. Lamar.
Davis, Fort, Texas	25.02	635.5	30.00	762.0	34	1.1	75	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.61	726.7	30.41	772.4	—15	—26.1	46	n.	9	4.0		0	0			0.16	4.1	clear	D. Moore.
Deadwood, Dakota	25.25	641.3	30.19	766.8	—24	—31.1	100	calm	0	0			10 n			0.05	1.3	light snow	F. Willson.
Delaware Breakwater, Del	30.10	764.5	30.12	765.0	34	1.1	88	sw.	11	4.9			10 8			0.58	14.7	cloudy	T. S. Townsend.
Denison, Texas	29 14	740.1	29.98	761.5	30.0	— 1.1	77	se.	6	2.7		0	0			0	0	clear	J. W. Byram.
Denver, Colorado	24.49	622.0	30.01	762.2	—10.0	—23.3	100	ne.	6	2.7			10 n			0.04	1.0	light snow	F. M. Neal.
Des Moines, Iowa	29.33	745.0	30.30	769.6	2	—16.7	45	ne.	1	0.4		0	7 8			0	0	fair	F. W. Conrad.
Detroit, Michigan	29.56	750 8	30.32	770.1	22.9	— 5.1	88	w.	7	3.1		0	0			0 31	7.9	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.10	688.3	29.85	758.2	22	— 5.6	100	e.	21	9.4			10 n			inap.	inap.	light snow	V. P. Temple.
Dubuque, Iowa	29.56	750.8	30.33	770.4	— 1.8	—18.8	68	calm	0	0		0	fg.			0.03	0.8	clear	J. Harvey Smith.
Duluth, Minnesota	29.58	751 3	30.39	771.9	— 1	—18.3	68	nw.	1	0.4			10 8		nw.	0.02	0.5	cloudy	N. B. Conger.
Eagle Pass, Texas	29.14	740.1	29.98	761.5	39.1	3.9	65	se.	1	0.4		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.21	640.3	30.17	766.3	—16	—26.7	73	sw.	6	2.7		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.52	749.8	29.58	751.3	22.0	— 5.6	88	nw.	9	4.0			10 8		nw.	0.27	6.9	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.01	686.0	29.94	760.5	23	— 5.0	64	se.	12	5.4		c	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.08	662.4	29.93	761.0	38.0	3.3	64	w.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.50	749.3	30.27	768.8	28	— 2.2	77	w.	17	7.6			10 8		w.	0.38	9.7	cloudy	Peter Wood.
Escanaba, Michigan	29.62	752.3	30.34	770.6	8.5	—13.1	85	w.	4	1.8		0	0			0.06	1.5	clear	George Heathcote.
Fredericksburg, Texas	28.14	714.7	29.99	761.0	38	3.3	92	w.	1	0.4		0	0			0	0	clear	Frank Halwegler.
Galveston, Texas	29.90	759.4	29.95	760.7	55	12.8	86	e.	6	2.7			fg			0.11	2.8	dense fog	E. O'C. Machiernay.
Grand Haven, Michigan	29.59	751.6	30.30	769.6	24.5	— 4.2	73	n.	1	0.4		0	6 8		nw.	0.22	5.6	fair	J. E. Mueller.
Grant, Fort, Arizona	25.08	637.0	29.98	761.5	29	— 1.7	70	n.	7	3.1		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.15	765.8	30.17	766.3	44	6.7	100	w.	6	2.7			10 n		sw.	0.24	6.1	light rain	R. M. Crawford.
Helena, Montana	25.86	656 8	30.28	769.1	—26	—32.2	100	calm	0	0		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas																			J. P. Sherry.
Huron, Dakota	28.93	734.8	30.47	773 9	—12.3	—24.6	57	n.	12	5.4			10 8			inap.	inap.	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.48	748.8	30.32	770.1	24	— 4.4	73	ne.	2	0.9		0	hz.			0.01	0.3	clear	J. F. Jirdinston.
Indianola, Texas	29.87	758.7	29.90	759.4	52.6	11.4	90	ne.	8	3.5		0	8 8		w.	inap.	inap.	cloudy	I. A. Reed.
Jacksboro, Texas	28.73	729.7	29.97	761.2	36	2.2	69	ne.	9	4.0			10 8			0	0	cloudy	D. J. Carr.
Jacksonville, Florida	30.10	764.5	30.15	765.8	60	15.6	93	ne.	1	0.4			10 8			0.04	1.0	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.79	705 9	30.48	774.2	—31	—35.0	100	calm	0	0		0	0			0.01	0.3	clear	A. Schneider.
Keokuk, Iowa	29.55	750.6	30.25	768.3	5.0	—15.0	100	ne.	5	2.2		0	3 8			0	0	clear	F. Z. Gosewisch.

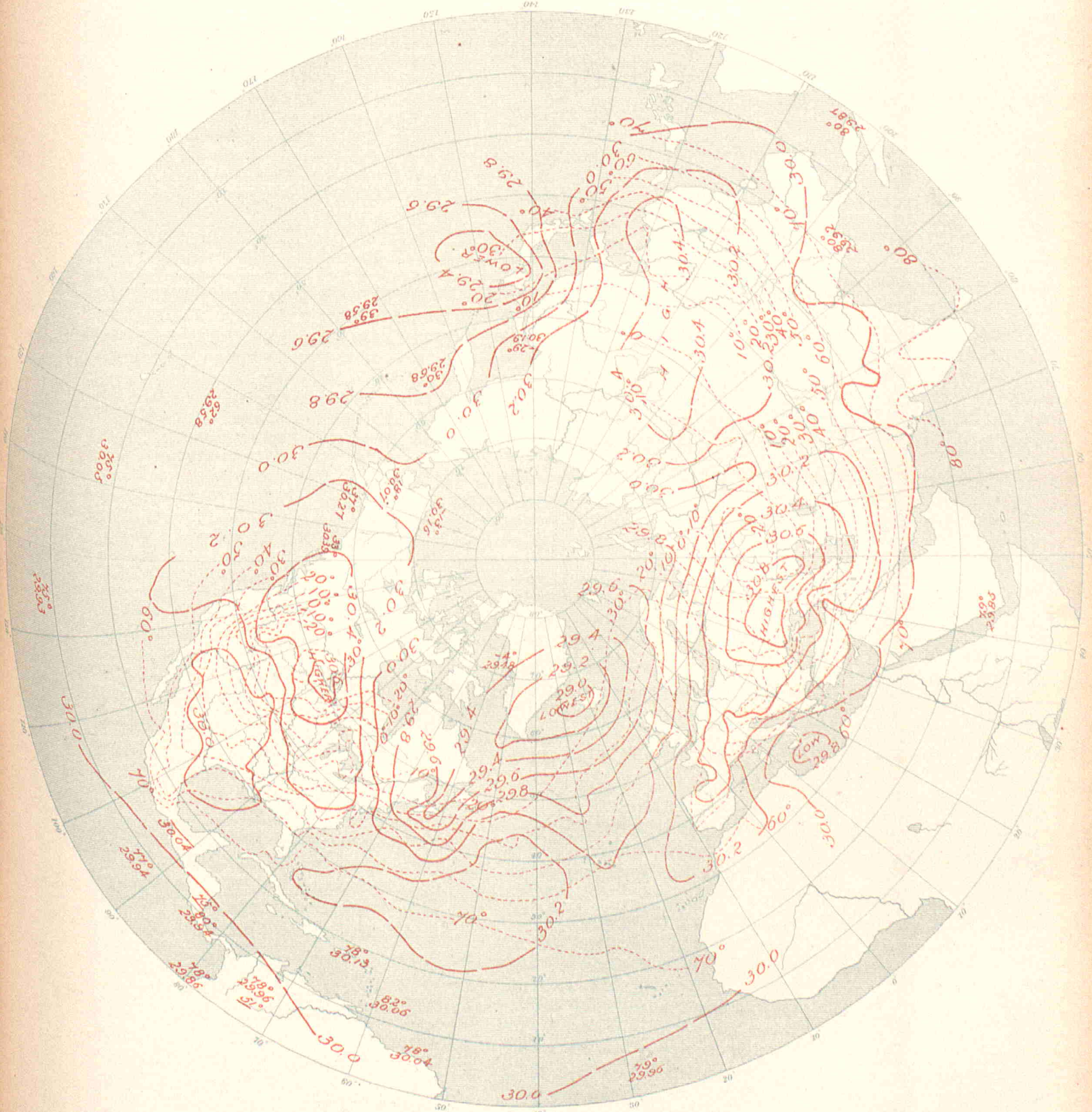
STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.11	764.8	30.13	765.3	71.0	21.7	92	calm	0	0			10 s		se.	0.06	1.5	threatening.	Lee M. Melbourne.
Kittyhawk, North Carolina	30.15	765.8	30.17	766.3	42	5.6	96	w.	14	6.3			10 s		w.	0.34	8.6	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.11	739.4	30.19	766.8	41.3	5.2	92	n.	11	4.9			10 n			0.32	8.1	light rain	J. A. Cody.
La Crosse, Wisconsin	29.50	749.3	30.34	770.6	— 5	—20.6	62	sw.	1	0.4		0	0			inap.	inap.	clear	S. C. Emery.
Leavenworth, Kansas	29.23	742.4	30.19	766.8	15	— 9.4	83	ne.	5	2.2			10 s			0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.72	754.9	30.58	776.7	— 7.0	—21.7	58	w.	6	2.7		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.74	755.4	30.07	763.8	32	0.0	78	e.	12	5.4		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.65	753.1	30.05	763.3	43	6.1	83	e.	9	4.0		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.69	754.1	30.28	769.1	29	— 1.7	77	ne.	11	4.9			10 s			0.03	0.8	cloudy	L. M Dey.
Lynchburg, Virginia	29.40	746.7	30.12	765.0	38.8	3.8	86	calm	0	0		3 cs	4s;fg	sw.		0.57	14.5	fair	Louis Duane.
Mackinaw City, Michigan	29.61	752.1	30.31	769.9	19.5	— 6.9	76	w.	5	2.2		0	0			0.52	13.2	clear	F. R. Day.
Macon, Fort, North Carolina	30.13	765.3	30.14	765.5	46.0	7.8	100	nw.	6	2.7			10 n		nw.	0.32	8.1	light rain	William Daly.
Madison, Wisconsin	29.24	742.7	30.33	770.4	4	—15.6	72	n.	3	1.3		0	fg.			0.05	1.3	light fog	C. A. Shaw.
Maginnis, Fort, Montana	25.49	647.4	30.04	763.0	—28	—33.3	39	w.	6	2.7			10 s		w.	0.02	0.5	cloudy	F. Burke.
McKavett, Fort, Texas	27.60	701.0	29.96	761.5	36	2.2	64	w.	8	3.6		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.52	749.8	30.30	769.6	20	— 6.7	70	w.	6	2.7			10 s			0.24	6.1	cloudy	J. Gilligan.
Memphis, Tennessee	29.82	757.4	30.18	766.6	32	0.0	78	ne.	6	2.7			10 s			inap.	inap.	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.54	750.3	30.34	770.6	12	—11.1	80	nw.	8	3.6		0	2 s			0.03	0.8	clear	W. Line.
Missoula, Fort, Montana	26.91	683.5	30.37	771.4	—24	—31.1	100	n.	2	0.9		0	0			0	0	clear	I. H. Young.
Mobile, Alabama	29.99	761.7	30.03	762.7	59	15.0	96	se.	6	2.7			10 n		se.	1.59	40.4	light rain	C. A. Read.
Montgomery, Alabama	29.77	756.1	30.01	762.2	58.4	14.7	95	se.	10	4.5			10 n			1.12	28.4	light rain	J. B. McLauchlin
Moorhead, Minnesota	29.44	747.8	30.55	776.0	—21	—29.4	100	n.	10	4.5			10 s			0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.25	742.9	30.31	769.9	38.0	3.3	54	sw.	10	4.5			10 s			0.28	7.1	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.11	587.0	29.74	755.4	9.0	—12.8	100	w.	7	3.1			10n;fg		w.	0.43	10.9	light snow.	S. W. Beall.
Nashville, Tennessee	29.60	751.8	30.21	767.3	31.0	— 0.6	88	ne.	8	3.6		9 cs	0	s.		inap.	inap.	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.82	757.4	29.94	760.5	40	4.4	57	w.	17	7.6		8 cs	2 s	w.	w.	0.58	14.7	cloudy	J. H. Sherman.
New London, Connecticut	29.90	759.4	29.94	760.5	36	2.2	79	sw.	9	4.0		8 c	2 s	sw.	sw.	0.08	2.0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.90	759.4	29.96	761.0	63.5	17.5	92	s.	13	5.8			10 s			1.07	27.2	cloudy	L. Dunne.
Newport, Rhode Island	29.83	757.7	29.88	758.9	38.0	3.3	89	sw.	14	6.3			10 s		w.	0.80	20.3	cloudy	W. McGillivray.
New York, New York	29.82	757.4	30.01	762.2	41	5.0	57	w.	13	5.8			10 s		w.	0.47	11.9	cloudy	J. B. Merrill.
Norfolk, Virginia	30.12	765.0	30.15	765.8	41	5.0	92	sw.	5	2.2			10 s			0.41	10.4	cloudy	Wm. Davis.
North Platte, Nebraska	27.03	686.5	30.15	765.8	—10.4	—23.6	80	n.	24	10.7			10 n			0.66	16.8	light snow	E. F. Brady.
Olympia, Washington T'y	30.39	771.9	30.43	772.9	16.0	— 8.9	67	ne.	1	0.4		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.03	737.3	30.30	769.6	2.8	—16.2	67	n.	4	1.8			10 s			0.02	0.5	cloudy	A. Pollak.
Oogiaamie, Alaska	30.14	765.5	30.16	766.1	—12.9	—24.9		wsw.	33	14.8		0	0			inap.	inap.	clear	P. H. Ray.
Oswego, New York	29.74	755.4	30.09	764.3	29.0	— 1.7	88	nw.	18	8 0			10 s		nw.	0.07	1.8	cloudy	J. G. Linsley.
Palestine, Texas	29.42	747.3	30.00	762.0	37.5	3.1	86	ne.	10	4.5		0	1 s			0.03	0.8	clear	L. M. Pindell.
Pensacola, Florida	30.06	763.6	30.10	764.5	60.0	15.6	100	e.	4	1.8			10 n			2.86	72.6	thnd'r storm	M. McGauran.
Philadelphia, Pa	30.00	762.0	30.11	764.8	39	3.9	73	w.	7	3.1			10s;fg		w.	0.48	12.2	cloudy	T. T. Townsend.
Pike's Peak, Colorado	17.00	431.8	29.70	754.4	—19	—28.3	100	w.	29	13.0			10 n		w.	0.06	1.5	light snow	H. Hall.
Pioche, Nevada	23.80	604.5	30.00	762.0	5	—15.0	79	n.	10	4.5		0	0			0.06	1.5	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.42	747.3	30.27	768.8	34.0	1.1	72	nw.	9	4.0			10 s		nw.	0 17	4.3	cloudy	W. A. Reid.
Poplar River, Montana	28.20	716.3	30.55	776.0				nw.			1	0	0			0.09	2.3	clear	W. D. Maxwell.
Port Eads, Louisiana	30.00	762.0	30.01	762.2	63.2	17.3	97	se.	13	5 8			10 s		sw.	2.67	67.8	cloudy	H. B. Boyer.
Port Huron, Michigan	29.56	750.8	30.29	769.4	13.2	—10.4	91	w.	7	3.1		0	0			0.25	6.3	clear	W. O. Bailey.
Portland, Maine	29.62	752.3	29.67	753.6	25.5	— 3.6	68	w.	14	6.3		0	0			0.42	10.7	clear	W. W. Eichelberger.
Portland, Oregon	30.35	770.9	30.42	772.7	10.0	— 7.2	84	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					47	8.3	100	calm			0		10 n			0.28	7.1	light rain	F. S. Coburn.
Prescott, Arizona	24.55	623.6	29.93	760.2	23.2	— 4.9	76	sw.	2	0.9		0	3 s		w.	0	0	clear	W. H. Clendenon.
Provincetown, Mass	29.79	756.7	29.82	757.4	36.5	2.5	89	w.	9	4.0		2 cs	2 s	w.	w.	0.44	11.2	fair	P. T. Jenkins.
Punta Rassa, Florida	30.12	765.0	30.13	765.3	67.5	19.7	93	se.	11	4.9		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.82	757.4	30.18	766.6	31	— 0.6	88	n.	1	0.4		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.42	747.3	30.13	765.3	27	— 2.8	100	nw.	18	8.0			10n;fg		nw.	0.08	2.0	light snow	E. W. McGann
Roseburg, Oregon	29.80	756.9	30.37	771.4	24	— 4.4	88	nw.	2	0.9		0	0			inap.	inap.	clear	J. J. Nanry.
Sacramento, California	30.07	763.8	30.15	765.8	32.4	0.2	88	n.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.62	752.3	30.26	768.6	18.4	— 7.6	93	ne.	8	3.6		0	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.04	763.0	30.07	763.8	18	— 7.8	100	ne.	26	11.6			10 s			0 50	12.7	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.42	747.3	30.37	771.4	— 2.0	—18.9	83	calm	0	0			10 s			inap.	inap.	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.60	751.8	30.58	776.7	—21	—29.4	100	nw.	2	0.9		0	0			0	0	clear	C. B Dilley.
Salt Lake City, Utah	25.54	648.7	30.11	764.8	7	—13.9	58	calm	0	0		0	0			0.23	5.8	clear	J. Craig.
San Antonio, Texas	29.22	742.2	29.95	760.7	38.5	3.6	82	ne.	1	0.4		0	0			0	0	clear	T. J. Kenan.
San Diego, California	30.00	762.0	30.07	763.8	51.0	10.9	56	w.	11	4.9			10 s		w.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.59	751.6	30.31	769.9	28.3	— 2.1	77	nw.	12	5.4		0	0			0.41	10.4	clear	M. H. Perry.
Sandy Hook, New Jersey	30.01	762.2	30.04	763.0	36.0	2.2	79	w.	15	6.7		10 k	0	w.		0.35	8.9	cloudy	B. A. Blundon.
San Francisco, California	30.08	764.0	30.15	765.8	41	5.0	73	n.	7	3.1		0	0			inap.	inap.	clear	N. Gorom.
Santa Fé, New Mexico	22.82	579.6	29.88	758 9	18	— 7.8	67	nw.	16	7.2		0	2 c		nw.	inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	30.05	763.3	30.15	765.8	60	15.6	84	s.	4	1.8			10 n		s.	0.49	12.4	light rain	H. W. Ford.
Shaw, Fort, Montana	26.45	671.8	30.31	769.9	—20	—28.9	100	w	1	0.4		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.75	755.6	30.00	762.0	39	3.9	89	e.	8	3.6		0	2 s		e.	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28 64	727.4	29.97	761.2	31	— 0 6	78	se.	9	4.0		0	8 s			0	0	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.05	610.9	29.91	759.7	27.0	— 2.8	70	nw.	4	1.8		0	0			0	0	clear	N. D. Lane.
Sitka, Alaska	30.32	770.1	30.39	771.9	33	0.6	80	e.	4	1.8			10 s		e.	0.06	1.5	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.53	750.0	30.03	762.7	29.0	— 1.7	88	e.	8	3.6		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.12	765.0	30.16	766.1	50	10.0	100	nw.	2	0.9			10 n		w.	0.38	9.7	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.32	719.3	30.46	773.7	—22	—30.0	60	calm	0	0		0	0			0	0	clear	H. Clifford.
Springfield, Illinois	29.55	750.6	30.28	769.1	19	— 7.2	76	ne.	5	2.2		0	0			inap.	inap.	clear	T. B. Jennings.
Springfield, Missouri	28.55	725 2	30.07	763.8	22	— 5.6	73	se.	9	4.0		0	0			inap.	inap.	clear	J. H. Bryce.
Starkville, Miss	29.59	750.8	30.00	763.5	42	5.6	90	n.	10	4.5			10 n			0.04	1.0	light rain	C. Dill.
Stevenson, Fort, Dakota	28.50	723.9	30.56	776.2	—23	—30.6	100	nw.	13	5.8		0	0			0	0	clear	W. Burrows.
Stockton, Fort, Texas	26.80	680.7	29.94	760.5	29	— 1.7	67	e.	2	0.9		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass	29.74	755.4	29.80	756.9	33.8	1.0	74	w.	24	10.7		3 c	0	w.		0.59	15.0	clear	G. Liebmann.
Thomas, Camp, Arizona	27.12	688.8	29.96	761.0	39.5	4.2	68	calm			0	0	4 s			0	0	fair	J. T. Fitzgerald.
Toledo, Ohio	29.56	750.8	30.30	769.6	29	— 1.7	77	nw.	3	1.3		0	0			0.21	5.3	clear	A. Buell.
Tucson, Arizona	27.51	698.7	30.01	762.2	33	0.6	81	s.	1	0.4		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.20	767.1	30.59	777.0	2	—16.7	85	s.	5	2.2		0	0			0	0	clear	J. Daly.
Verde, Fort, Arizona					39.6	4.2	73	w.			1		10 s		w.	0	0	cloudy	D. Brooks.
Vicksburg, Mississippi	29.77	756.1	30.04	763.0	46.2	7.9	93	n.	3	1.3			10s;fg		n.	inap.	inap.	cloudy	James Kenealy.
Visalia, California	29.73	755 1	30.12	765 0	28.5	— 1.9	84	n.	1	0.4		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.26	616.2	30.05	763.3	—25.2	—31.8		se.	1	0.4		0	0			0.04	1.0	clear	T. M. Ambler.
Washington, D. C.	30.05	763.3	30.17	766.3	40.0	4.4	64	nw.	4	1.8			10 s		w.	0.40	11.7	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.66	651.8	29.80	756.9	0	—17.8	85	n.	36	16.1			10 s		n.	0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa	29.52	749.8	30.14	765.5	34.8	1.6	53	w.	12	5.4		0	7 ks		w.	0.29	7.4	fair	B. F. Hough.
Wilmington, N. Carolina	30.11	764 8	30.17	766.3	48	8.9	100	nw.	2	0.9			10 n			0.00	15.2	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.58	649.7	30.12	765.0	— 4.5	—20.3	52	calm	0	0		0	0			0.01	0.3	clear	J. Grover.
Yankton, Dakota	28.90	734.0	30.32	770.1	— 5	—20.0	93	ne.	7	3.1			10 s			0.02	0.5	cloudy	J. H. Attfeld.
Yuma, Arizona	29.79	756.7	29.94	760.5	40.5	8.1	72	w.	4	1.8		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			51.0	10.6	50	calm	0	0		2 cs	0	w.		0.06	1.5	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.13	765.3	30.14	765.5	72	22.2	80	calm	0	0		0	0			0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	78	25.6	82	se.			3	4 c	5 k	e.		0 050	1.3	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Colombia	29.40	746.7	29.96	761.0	78	25.6	84	calm			0	2 ck	1 s	calm	calm	0	0	clear	Francisco J. Cisneroz.
Rivas, Nicaragua, C. A.					75	23.9	90	ne.			2	1 ck	0	ne.		0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.21	767.3	30.27	768.8	37	2.8	82	s.			3		8 ks			0.17	4.3	cloudy	W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe.
York Factory H. B. A.	29.91	759.7	29.98	761.5	—27.0	—32.8		w.	7	3.1		0	0			0	0	clear	Forbes ne & Wood

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Amethyst, S. 51° 39′ W. 57° 43′ †	29.87	758.7	55	12.8	83	ese.			1		3	ne.						foggy.
H. M. S. Audacious, Hong-Kong, China	30.12	765.0	57	13.9	75	calm			0		3	n.						misty
H. M. S. Boadicea, S. 19° 17′, W. 2° 25′	30.01	762.2				sse			1–3		3					4	sse.	d. clouds.
H. M. S. Champion, Singapore, Malay peninsula	29.87	758.7	80	26.7	95	ne.			2		3	ne.				1	ne.	d. clouds.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.55	776.0	23	— 5.0		nnw.			0–1		0							blue sky.
H. M. S. Comus, N. 8° 02′, W. 94° 40′	29.94	760.5	77	25.0	90	ese.			1		4	ne.						d. clouds.
H. M. S. Constance, S 5° 23′, W. 31° 42′	29.96	761.0	83	28.3		ese.			2–3		2	sse.				3	ese.	blue sky.
H. M. S. Curacoa, Yokohama, Japan			36.5	2.5	54	w.			3		0							blue sky.
H. M. Dock-Yard, Bermuda, W. I	30.23	767.8	66	18.9	94	ssw.			1–2		7	ssw.						d. clouds.
H. M. S. Dryad, N. 16° 4c′, E., 96° 10′	29.92	760.0	80	26.7		calm			0		3	ne.						d. clouds.
H. M. M. Eclipse, N. 12° 09′ E. 74° 50′	29.73	755 1	81	27.2		wnw			1		2					2	var.	blue sky.
H. M. S. Euryalus, Trincomalee, Ceylon	29.84	757.9	79	26.1	90	ne.			2		5	ne						showery.
H. M. S. Espeigle, S. 33° 51′, E. 151° 14′	30.20	767.1	66	18.9	94	calm			0		5	wsw.						d. clouds.
H. M. S. Fawn, S. 21° 31′ E. 1° 55′	30.01	762.2	72.5	22.5	90	se.			2		8					2	se.	d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.18	766.6	31	— 0.6	89	n.			2–5		7							snowing.
H. M. S. Fox Hound, Sarawak, Borneo	29.87	758.7	77.5	25.3		n.			2		5	n.						d. clouds.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.98	761.5	63	17.2	78	nne.			1		0							blue sky.
H. M. S. Heroine, S. 18° 00′, W. 33° 50′	30.01	762.2	80	26.7	86	e.			5		3	e.				3	ene.	d. clouds.
H. M. S. Iron Duke, N. 13° 58′ E. 42° 48′	29.85	758.2	79	26.1	95	s.			5–6		5	sse.				4	s.	d. clouds.
H. M. S. Kingfisher, Callao Bay, Peru	29.96	761.0	69	20.6		se			1		10							foggy.
H. M. S. Lark, S. 34° 50′, E. 174° 49′	30.16	766.1	67.3	19.6	87	calm			0		4					sm'h		d. clouds.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	29.93	760.2	32.7	0.4	90	wnw.			1–2		7							d. clouds.
H. M. S. Monarch Port Said, Egypt	30.00	762.0	66	18.9	68	nne.			3		5							d. clouds.
H. M. S. Mutine, N. 7° 49′, W. 126° 05′	29.93	760.2	74.5	23.6		n.			1		10					5	cf'd	raining.
H. M. Rocket, Valdivia, Chili	29.95	760.7	56	13.3	?	calm			0		2							blue sky.
H. M. Sarapis, Bombay, India	29.85	758.2	80	26.7	63	w.			2		3							d. clouds
H. M. S Superb, N. 36° 50′ E. 28° 19′ *	30.06	763.5	59	15.0	81	calm			0		8	sse.						showery.
H. M. S. Swiftsure, Bay of Payta, Peru	30.02	762.5	67	19.4	94	s.			2–4		3					1	s	d. clouds.
H. M. S. Sylvia, Borja Bay, Patagonia	29.64	752.8	45.2	7.3	84	wnw.			3–5		8	ese.						showery.
H. M. S. Tourmaline, Bombay, India	29.87	758.7				w.			1		0							blue sky.
H. M. S. Tyne, N. 38° 33′, W. 9° 43′	30.37	771.4	53	11.7	73	ese.			2		1							blue sky.
H. M. S. Woodlark, Bushire, Persia	29.91	759.7	75.5	24.2	59	wsw.			2		2					- 1	wsw.	blue sky.
Portuguese Naval.																		
Tamega, Macao, China	30.29	769.4	57.2	14.0	67	calm			0		0			0	0			blue sky.
United States Naval.																		
Navy Yard, Pensacola, Fla*	30.03	762.7	62	16.7	88	ne.	3	1.3			10		ne.	0.65	16.5			cloudy.
Navy Yard, Portsmouth, N. H*	29.71	754.6	30	— 1.1	?	wsw.	18	8.0			2		nw.	0.1	3.			fair.
Naval Hospital, Yokohama, Japan*	29.60	751.8	33.5	0.8	32	nw.			6		1		w.	0	0			clear.
Adams, Sitka, Alaska†	30.48	774.2	34	1.1	90	e.			1		10							cloudy.
Alaska, Mare Island, Cal	30.10	764.5	39	3.9	71	calm			0		0			0	0			clear.
Alliance, Cienfuegos, Cuba, W. I	30.10	764.5	71	21.7	95	ne.			1		0			0	0	sm'h		clear.
Brooklyn, Keel Point, Patagonia*	29.69	754.1	53	11.7	93	s.	14	6.3			8		s.	0.01	0.3	sm'h		fair.
Colorado, New York, N. Y	30.04	763.0	40	4.4	?	nw.	6	2.7			5		calm	0.46	11.7			fair.
Enterprise, N. 32° 15′, W. 44° 58′ *	30.40	772.1	63	17.2	78	ene.			5		5		w.			sm'h		fair.
Essex, Callao, Peru	29.98	761.5	66	18.9	94	sse.			1		10							misty.
Franklin, Norfolk, Va	30.15	765.8	40	4.4	81	ssw.	4	1.8			10			0.34	8.6			cloudy.
Galena, Montevideo, Uruguay*	29.88	758 9	65	18.3	94	nnw.			3		8					sm'h		fair.
Hartford, Callao, Peru*	29.92	760.0	67	19.4	95	sse.			1		0					sm'h	s.	foggy.
Independence, Mare Island, Cal	30.18	766.6	35	1.7	90	calm			0		0			0	0			clear.
Iroquois, Callao, Peru	30.01	762.2	66	18.9	94	sse.			1		10							foggy.
Jamestown, Boston, Mass	29.66	753.4	36	2.2	90	wsw.			3		2							fair.
Juniata, Gibraltar, Mediterranean*	29.39	769.4	59	15.0	87	w.			2		8		e.	0	0			cloudy.
Kearsarge, Port of Spain, Trinidad, W. I	30.04	763.0	79	26.1	86	ne.			1		2		ne.					fair.
Lackawanna, N. 17° 20′, W. 144° 28′*	30.05	763.3	75	23.9	81	e.			3		0					mod.	ese.	clear.
Lancaster, Genoa, Italy	30.17	766 3	51	10.6	64	n.			5		0							clear.
Michigan, Erie, Pa	30.27	768.8	29	— 1.7	100	nw.			3		2		n.					clear.
Minnesota, New York, N. Y	30.00	762.0	40	4.4	91	nw.	3	1.3			10							cloudy.
Monocacy, Nagasaki, Japan	30.16	766.1	35	1.7	100	nnw.			4		10		nw.					cloudy
New Hampshire, Newport, R. I	29.85	758.2	37	2.8	100	w.			3		10		calm			sm'h		overcast.
Nipsic, Lisbon, Portugal	30.39	771.9	53	11.7	66	ene.			3		0							clear.
Onward, Callao, Peru*†	30.07	763 8	65	18.3	94	calm			0		10		n.					foggy.
Palos, Tientsin, China*	30.38	771.6	19	— 7.2	100	w.			1		0							clear.
Pensacola, N. 0° 22′ W. 80° 55′*	29.86	758 4	78	25.6	82	ssw.			4		8		ssw.	0	0	light	ssw.	fair.
Portsmouth, Boston, Mass	29.79	756.7	33	0.6	100	wnw.			2		5		nw.					fair.
Powhatan, Boston, Mass	29.80	756.9	35	1.7	90	wsw.			1		5							fair.
Quinnebaug, Genoa, Italy	30.22	767.6	48	8.9	77	nne.			4		0							clear.
Ranger, N. 24° 33′, W. 116° 04′*	30.13	765.3	59	15.0	70	n.			3		8		n.	0	0	long	n.	cloudy.
Richmond, Mouth Canton River*	30.20	767.1	57	13.9	57	calm			0		0			0	0			clear.
Saratoga, New York, N. Y	29.95	760.7	41	5.0	73	w.			2–3		8		w.	light	light			cloudy.
St. Louis, League Island, Pa	30.08	764.0	32	0.0	100	sw.			2		10		e.	0.38	9.7			cloudy.
Tennessee, Basse-Terre, St. Kitts, W. I*	30.12	765.0	79	26.1	69	ene.	16	7.2			5			0	0			fair.
Vandalia, Samana Bay, San Domingo, W. I*	30.15	765.8	76	24.4	85	ne.			1		5		e.					fair.
Wabash, Boston, Mass	29.83	757.7	34	1.1	79	wsw.	2	0.9			2		w.	0.08	2.0			fair.
Wachusetts, Mare Island, Cal	30.08	764.0	37	2.8	100	calm			0		0							clear.
Wyandotte, Washington, D. C	30.32	770.1	43	6.1	100	nw.			2		10		w.	0	0			cloudy.
Yantic, Chiriqui Lagoon, U. S. C	29.99	761.7	75	23.9	90	calm			0		2							clear.
Merchant Marine.																		
S. S. Grecian, Havre, France*	30.27	768.8	52	11.1	86	ssw.			2		9		ssw.	0	0			cloudy.
S. S. Nova Scotian, N. 52° 20′, W. 35° 05′	29.62	752.3	32	0.0		w.			4		10		sw.			cross	var.	cloudy.
S. S. Scandinavian, N. 52° 59′, W. 29° 42′	29.71	754.6	40	4.4		wsw.			7		6		wsw.	10 h'r	10 h'r	high	wsw.	d. clouds.
S. S. British Crown, N. 43° 51′, W. 38° 33′†	30.10	764.5	45	7.2		w.			6		4		wnw.	hail	hail	h'vy	w.	clear.
S. S. British Prince, N. 45° 19′ W. 52° 30′ †	30.16	766.1	32	0.0		sw.			4		10		sw.	0	0	mod.	sw.	overcast.
S. S. Indiana, N. 49° 56′, W. 26° 47′			43	6.1	92	wsw.			4		2		w.			r'gh	w.	fine.
S. S. Lord Clive, Brandywine, Del						wsw			2		6		nw.	7 h'r	7 h'r			fair.
S. S. Ohio, Philadelphia, Pa			25	— 3.9	87	nw.			4		10							misty.
S. S. Pennsylvania, N. 42° 34′, W. 60° 36′ †	29.51	749.5	49	9.4	?	sw.			4		10		sw.	0	0	r'gh	w.	misty.
S. S. Ja-on, N. 49° 17′, W. 13° 35′			50.0	10.0		nne.			6		9 n					6	ne.	raining.
S. S. Stella, N. 44° 10′, W. 47° 31′	30.08	764.0	39	3.9		w.			2		8		w.	3 h'r	3 h'r	4	wnw.	squally.
S. S. Bolivia, Glasgow, Scotland	30.55	776.0	49	9.4	78	wsw.			4		8			18 h'r	18 h'r			cloudy
S. S. Dorian, Valencia, Spain*	30.16	766.1				var.					2		ne.	0	0			clear.
S. S. Ailsa, N. 34° 49′, W. 73° 42′†	30.20	767.1	66	18.9	94	w.			6		10		w.	0	0	r'gh	w.	overcast.
S. S. Antillas, Lucea, Jamaica, W. I†	30.25	768.3				ne.			1		1					sm'h		
S. S. Ambrose, Amazon River, Brazil†	30.02	762.5	81	27.2		var.			9					6 h'r	6 h'r			cloudy.
S. S. Auckland, S. 46° 52′, W. 43° 28′	29.97	761.2	54	12.2	74	nw.			1		4							blue sky.
S. S. Caldew, S. 27° 18′, E. 52° 28′	29.89	759.2	80	26.7	82	ene.			4		8							d. clouds.
S. S. City of Agra, S. 36° 10′, W. 36° 00′	29.75	755.6	70	21.1	95	nw.			6		8							d. clouds.
S. S. Gordon Castle, N. 40° 19′, W. 9° 24′	30.35	770.9	58.5	14.7	88	ne.			2		1					high	nw.	d. clouds.
St. Kilda, N. 38° 40′, W. 38° 40′	30.27	768.8	51.7	10.9	50	nw.			6		4							d. clouds.
S. S. Scotia, Suez Roads, Egypt	30.03	762.7	82.8	28.2	38	n.			1–5		2							blue sky.
S. S. Mexico, N. 23° 39′, W. 107° 48′†	30.06	763.5	66	18.9	68	n.			2		0							
S. S. Bothnia, N. 49° 58′, W. 28° 12′	29.81	757.2	44	6.7	92	wsw.			4		9		w.	hail	hail	r'gh	w.	squally.
S. S. Gallia, N. 51° 21′, W. 12° 37′	29.96	761.0	54	12.2	100	sw.			6		2		wsw.	0	0	mod.	w.	fair.
S. S. Parthia, N. 42° 23′, W. 55° 36′	29.60	751.8	49	9.4	100	sw.			6		10		wsw.	6 h'r	6 h'r	cf'd	wsw.	raining.
S. S. Pavonia, N. 40° 27′, W. 69° 18′	29.81	757.2	52	11.1	86	wsw.			6		7		wsw.	8 h'r	8 h'r	mod.	wsw.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Force.	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
MERCHANT MARINE.—Continued.																		
S. S. Rhiwladda, N. 44° 13′ W. 53° 50′	.....	.....	39	3.9	.....	sse.	.....	.....	8	.....	8	.....	s.	.....	.....	r'gh	s.	stormy.
S. S. France, N. 48° 40′, W. 32° 38′	.....	.....	39.2	4.0	.....	w.	.....	.....	4	ck	0	wnw.	.....	.....	.....	h'vy	wnw.	hailing.
S. S. Labradore, N. 49° 30′, W. 18° 55′*†	29.96	761.0	51.8	11.0	.....	sw.	.....	.....	5	.....	7	.....	w.	0	0	sm'h	w.	fair.
S. S. Perire, N. 48° 32′, W. 21° 50′	29.91	759.8	51.8	11	.....	calm	.....	.....	0	.....	5	.....	s.	rain	rain	sm'h	w.	cloudy.
S. S. Ville de Marseilles, N. 27° 39′, W. 44° 34′*†	29.91	759.7	46	7.8	92	wsw.	.....	.....	5	.....	10	.....	w.	4 h'r	4 h'r	cross	.....	overcast.
S. S. Abyssinia, New York, N. Y	30.15	765.8	72	22.2	.....	ne.	.....	.....	6	.....	0	.....	.....	0	0	mod.	ne.	clear.
S. S. Wisconsin, N. 41° 50′ W. 62° 30′	29.91	759.7	46	7.8	92	wsw.	.....	.....	5	.....	10	.....	w.	6 h'r	6 h'r	mod.	sw.	clear.
S. S. Bohemia, Hamburg, Germany *†	30.40	772.1	42	5.6	.....	w.	.....	.....	6	.....	2	.....	w.	6 h'r	6 h'r	mod.	sw.	clear.
S. S. Frisia, N. 49° 51′, W. 29° 57′	.....	.....	.....	.....	.....	se.	.....	.....	2	.....	5	.....	.....	0	0	.....	.....	fair.
S. S. Silesia, Elbe river, Germany †	29.79	756.7	45	7.2	.....	w.	.....	.....	2	.....	2	.....	w.	0	0	h'vy	w.	clear.
S. S. Vandalia, Hamburg, Germany	30.39	771.9	35.0	1.7	.....	s.	.....	.....	4	.....	10	.....	s.	.....	.....	.....	.....	hazy.
S. S. Archimedes, Rio de Janeiro, Brazil	30.42	772.7	39.7	4.3	.....	ese.	.....	.....	3	.....	2	.....	sse.	.....	.....	.....	.....	fair.
S. S. Hevelius, N. 22° 29′, W. 23° —†	29.93	760.2	.....	.....	.....	calm	.....	.....	0	.....	5	.....	calm	0	0	.....	.....	fine.
S. S. Ptolemy, N. 3° 53′, W. 29° 04′	30.14	765.5	68	20.0	.....	ene.	.....	.....	6	.....	8?	.....	e.	0	0	sm'h	.....	clear?
S. S. Sirius, N. 31° 00′, W. 68° 00′*	29.96	761.0	79.3	26.3	86	w.	.....	.....	2	cs	9h; ks	.....	.....	.....	.....	con.	.....	overcast.
S. S. Bulgarian, N. 49° 18′, W. 34° 55′*	30.22	767.6	40	4.4	.....	sw.	.....	.....	3	.....	6	.....	sw.	0	0	sli't	s.	fair.
S. S. Virginian, N. 51° 03′, W. 18° 19′ *	29.93	760.2	.....	.....	.....	nw.	.....	.....	.....	.....	8	.....	wnw.	snow	snow	high	nw.	overcast
S. S. Colorado, N. 24° 48′, W. 83° 32′†	29.92	760.0	46	7.8	.....	w.	.....	.....	6	.....	4	.....	w.	1 h'r	1 h'r	mod.	w.	clear.
S. S. Rio Grande, Matanzas, Florida†	30.15	765.8	70	21.1	.....	se.	.....	.....	3	.....	3	.....	se.	0	0	small	se.	fair.
S. S. Archimede, Palermo, Sicily†	30.14	765.5	78	25.6	.....	ne.	.....	.....	1	.....	3	.....	ne.	0	0	mod.	.....	smoky.
S. S. Hermod, N. 40° 56′, W. 70° 25′†	29.76	755.9	58	14.4	64	ne.	.....	.....	5	.....	6	.....	nne.	6 h'r	6 h'r	.....	.....	cloudy.
S. S. Alleghany, Baltimore, Md †	29.92	760.0	39	3.9	.....	wsw.	.....	.....	6	.....	3	.....	wsw.	10 h'r	10 h'r	r'gh	sw.	hazy.
S. S. Brooklyn, N. 50° 11′, W. 28° 32′	30.22	767.6	40	4.4	.....	w.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....	hazy.
S. S. Dominion, Portland, Maine*†	.....	.....	44	6.7	.....	w.	.....	.....	4	.....	.....	.....	wnw.	2 h'r	2 h'r	freg.	wnw.	cloudy.
S. S. Chalmette, New York, N. Y†	28.82	732.0	31	—0.6	.....	ese.	.....	.....	3	.....	8	.....	se.	snow	snow	sm'h	.....	cloudy.
S. S. New York, N. 38° 10′ W. 74° 40′†	29.96	761.0	42	5.6	.....	w.	.....	.....	4	.....	5	.....	w.	8 h'r	8 h'r	.....	.....	fair.
S. S. Denmark, N. 46° 58′, W. 31° 46′ †	30.15	765.8	50	10.0	.....	nw.	.....	.....	4	.....	7	.....	wnw.	0	0	sm'h	.....	cloudy.
S. S. Egypt, Mersey River, Eng *†	29.89	759.2	51	10.6	.....	wnw.	.....	.....	5	.....	8	.....	w.	shr's	sh'rs	long	nw.	overcast.
S. S. Erin, Liverpool, Eng	29.85	758.2	.....	.....	.....	s.	.....	.....	4	.....	5	.....	ssw.	0	0	.....	.....	fair.
S. S. Greece, N. 40° 28′, W. 74° 00′	.....	.....	44	6.7	.....	s.	.....	.....	6	.....	2	.....	sse.	4 h'r	4 h'r	.....	.....	
S. S. Helvetia, off Bar Ship, Eng	29.89	759.2	36	2.2	.....	wnw.	.....	.....	4	.....	7	.....	w.	8 h'r	8 h'r	sli't	w.	fair
S. S. Holland, N. 48° 16′, W. 29° 04′	29.97	761.2	46	7.8	.....	wnw.	.....	.....	1	.....	8	.....	w.	0	0	.....	.....	cloudy.
S. S. The Queen, N. 43° 57′ W. 44° 25′	29.77	756.1	42	5.6	.....	sw.	.....	.....	6	.....	8	.....	w.	hail	hail	mod.	w.	squally.
S. S. Santiago, St. Jago, W. I	30.35	770.9	41	5.0	.....	nnw.	.....	.....	4	.....	8	.....	wsw.	rain	rain	r'gh	nw.	dull.
S. S. City of Merida, Vera Cruz, Mexico†	30.26	768.6	78	25.6	86	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	fine
S. S. City of Washington, N. 23° 12′ W. 83° 25′ †	30.05	763.3	77.0	25.0	.....	n.	.....	.....	3	.....	10	.....	n.	0	0	mod.	n.	cloudy.
S. S. Alpin, N. 31° 00′, W. 79° 08′	30.23	767.8	80	26.7	.....	e.	.....	.....	2	.....	2	.....	ene.	0	0	sm'h	.....	fine.
S. S. America, N. 48° 30′, W. 31° 06′*	30.12	765.0	70	21.1	.....	ne.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	sw.	cloudy.
S. S. Braunschweig, Buenos Ayres, Argentine Rep.	29.87	758.7	47.5	8.6	77	w.	.....	.....	4	.....	4	.....	w.	hail	hail	long	w.	squally.
S. S. Donau, N. 44° 17′ W. 42° 49′	29.88	758.9	68.0	20.0	74	n.	.....	.....	3	.....	2	.....	s.	2 h'r	2 h'r	light	n.	clear.
S. S. Main, N. 44° 44′, W 42° 40′	30.36	771.1	.....	.....	.....	w.	.....	.....	4	.....	8	.....	w	snow	snow	r'gh	wnw.	cloudy.
S. S. Oder, Weser river, Germany	30.16	766.1	36	2.2	.....	nw.	.....	.....	7	.....	5	.....	nw.	hail	hail	h'vy	nw.	squally.
S. S. Salier, N. 50° 12′ W. 13° 48′	30.33	770.4	50	10.0	.....	sse.	.....	.....	3	.....	.....	.....	s.	.....	.....	sm'h	sse.	foggy.
S. S. Strassburg, N. 18° 58′ W. 23° 59′	30.06	763.5	51	10.6	.....	wsw.	.....	.....	5	.....	3	.....	wsw.	1 h'r	1 h'r	h'vy	wsw.	fair.
S. S. Belgic, N. 34° 42′, E. 152° 19′*†	30.07	763.8	70	21.1	35	nne.	.....	.....	3	.....	8	.....	nne.	0	0	sm'h	nne.	cloudy.
S. S. Coptic, N. 40° 40′ E. 173° 44′	29.35	745.5	57	13.9	75	w.	.....	.....	6	.....	8	.....	w.	0	0	hv'y	nw.	cloudy.
S. S. Gaelic, N. 31° 31′, E. 131° 57′	29.58	751.3	38.5	3.6	86	wnw.	.....	.....	4	.....	8	.....	wnw.	hail	hail	r'gh	w.	hailing.
S. S. Oceanic, San Francisco, Cal†	.....	.....	44	6.7	76	wnw.	.....	.....	6	.....	5	.....	wnw.	hail	hail	.....	nw.	cloudy.
S. S. City of Augusta, Savannah, Ga†	30.15	765.8	44	6.7	76	nw.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. Willamette, Seattle, Wash. Ter†	30.15	765.8	.....	.....	.....	se.	.....	.....	4	.....	10	.....	.....	0	0	.....	.....	foggy.
S. S. Columbia, N. 40° 18′, W. 124° 32′ †	30.48	774.2	22	—5.6	100	ese.	.....	.....	3	.....	4	.....	ene	0	0	.....	.....	fine.
S. S. Oregon, San Francisco, Cal†	30.24	768.1	37.5	3.1	100	n.	.....	.....	5	.....	6	.....	n.	.....	.....	r'gh	nw.	fair.
S. S. Ancon, N. 32° 38′, W. 117° 14′ †	30.08	764.0	40	4.4	91	nne.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. City of Chester, off Point Arenas, Cal*†	30.03	762.7	53	11.7	73	w.	.....	.....	3	.....	10	.....	w.	.....	.....	mod.	wsw	cloudy
S. S. Dakota, Seattle, Wash. Ter	30.21	767.3	36	2.2	80	nw.	.....	.....	1	.....	5	.....	nw.	.....	.....	long	sw.	fair.
S. S. G. W. Elder, San Francisco, Cal†	.....	.....	18	— 7.8	100	n.	.....	.....	4	.....	5?	.....	n.	snow	snow	sm'h	.....	clear.
S. S. Queen of the Pacific, N. 43° 45′, W. 124° 32′†	30.27	768.8	38	3.3	81	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. State of California, Portland, Oregon	30.35	770.9	.....	.....	.....	se.	.....	.....	3	.....	5?	.....	.....	.....	.....	.....	w.	cloudy.?
S. S. Victoria, San Francisco, Cal*†	.....	.....	11	—11.7	79	ne.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Australia, N. 34° 51′, W. 120° 51′ *†	30.14	765.5	40	4.4	.....	wnw.	.....	.....	3	.....	2	.....	nw.	.....	.....	.....	.....	fair.
S. S. City of New York, N. 27° 45′, W. 148° 22′ †	30.20	767.1	55	12.8	68	wnw.	.....	.....	2	.....	10	.....	.....	0	0	sm'h	nw.	hazy.
S. S. City of Pekin, N. 30° 25′ W. 157° 18′†	29.97	761.2	73	22.8	76	s.	.....	.....	6	.....	10	.....	s.	4 h'r	4 h'r	mod.	s.	cloudy.
S. S. City of Rio de Janeiro, N. 26° 36′, W. 114° 32′	29.58	751.3	62	16.7	66	sw.	.....	.....	6	.....	10	.....	sw.	.....	.....	r'gh	sw.	cloudy.
S. S. City of Sydney, Sydney, N. S. W †	.....	.....	60	15.6	65	nw.	.....	.....	4	.....	7	.....	nnw.	0	0	mod.	nw.	cloudy.
S. S. City of Tokei, N. 25° 02′, E. 119° 31′†	30.20	767.1	68	20.0	74	se.	.....	.....	6	.....	10	.....	se.	1 h'r	1 h'r	sm. h	.....	heavy rain.
S. S. Colima, N. 29° 34′, W. 115° 38′†	30.35	770.9	49	9.4	50	ne.	.....	.....	6	.....	8?	.....	n.	0	0	h'vy	ne.	clear?
S. S. Colon, N. 12° 13′, W. 78° 18′†	30.11	764.8	53	11.7	93	nw.	.....	.....	6	.....	10	.....	nnw.	0	0	r'gh	nw.	cloudy.
S. S. Grenada, Punta Arenas, Costa Rica †	30.00	762.0	80	26.7	.....	ene.	.....	.....	5	.....	3	.....	ese.	0	0	large	ese.	fair.
S. S. San José, N. 15° 58′, W. 93° 50′*†	29.94	760.5	80	26.7	82	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	sse.	clear.
S. S. Zealandia, Sydney, N. S. W*	30.04	763.0	.....	.....	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	long	nnw.	
S. S. Muriel, Martinique, W. I*	30.08	764.0	72	22.2	90	se.	.....	.....	3	.....	10	.....	s.	.....	.....	.....	.....	fine.
S. S. Caracas, La Guayra, Venezuela, S.A. †	30.06	763.5	80	26.7	.....	e.	.....	.....	4	.....	10	.....	.....	4 h'r	4 h'r	sm'h	.....	raining.
S. S. Claudius, Colon, U. S. C. †	30.12	765.0	78	25.6	77	ene.	.....	.....	1	.....	2	.....	ene.	0	0	mod.	nne.	fine.
S. S. Belgenland, N. 49° 30′, W. 23° 25′ †	30.07	763.8	80.0	26.7	90	n.	.....	.....	3	.....	5	.....	n.	0	0	long	n.	fair.
S. S. Nederland, N. 46° 36′, W. 45° 07′†	30.01	762.2	47	8.3	70	wsw.	.....	.....	6	.....	10	.....	wnw.	2 h'r	2 h'r	r'gh	var.	squally.
S. S. Pennland, N. 42° 34′, W. 61° 56′	30.12	765.0	33	0.6	89	w.	.....	.....	4	.....	8	.....	w.	snow	snow	long	wnw.	cloudy
S. S. Rhynland, Jersey City, N. J †	29.78	756.4	43	6.1	92	wsw.	.....	.....	7	.....	5	.....	wsw.	0	0	.....	wsw.	squally.
S. S. Waesland, Flushing, Netherlands	30.03	762.7	39	3.9	91	wsw.	.....	.....	4	.....	3	.....	wsw.	.....	.....	.....	.....	fair.
S. S. Leerdam, N. 50° 16′, W. 19° 00′ *	30.32	770.1	44	6.7	.....	sw.	.....	.....	5	.....	10	.....	sw.	5 h'r	5 h'r	sm'h	.....	misty.
S. S. Schiedam, N. 40° 20′, W. 72° 10′	30.03	762.7	49	9.4	85	w.	.....	.....	6	.....	5	.....	wsw.	e	o	long	w.	fair
S. S. W. A. scholten, Fire Island, N. Y	30.00	762.0	43.3	6.3	88	wsw.	.....	.....	4	.....	7	.....	w.	o	o	sm'h	.....	cloudy.
S. S. State of Florida, N. 40° 31′, W. 69° 36 ′	.....	.....	39.0	3.9	82	wsw.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	
S. S. Iowa, off Liverpool Eng *†	29.79	756.7	44	6.7	.....	w.	.....	.....	4	.....	2	.....	w.	6 h'r	6 h'r	mod.	.....	clear.
S. S. Plantyn, N. 49° 37′, W. 10° 30′	30.15	765.8	51	10.6	.....	wsw.	.....	.....	2	.....	10	.....	wnw.	4 h'r	4 h'r	sm'h	.....	foggy.
S. S. Adriatic, N. 49° 20′, W. 24° 45′ †	30.02	762.5	.....	.....	.....	.....	.....	.....	3	.....	2	.....	sw.	o	o	sm'h	sw.	clear.
S. S. Baltic, N. 51° 23, W. 13° 43′ *	29.94	760.5	44	6.7	.....	sw.	.....	.....	4	.....	8	.....	w.	1 h'r	1 h'r	mod.	w.	cloudy.
S. S. Lepanto, N. 46° 23′, W. 30° 30′ *	29.92	760.0	43	6.1	?	w.	.....	.....	6	.....	7	.....	wsw.	8 h'r	8 h'r	mod.	wsw.	squally.
S. S. Marengo, N. 51° 00′, W. 22° 30′*	29.99	761.7	39	3.9	.....	wsw.	.....	.....	6	.....	3	.....	wsw.	rain	rain	sli't	wnw.	clear.
S. S. Otranto, N. 51° 46′, W. 27° 47′	29.80	756.9	.....	.....	.....	w.	.....	.....	7	.....	0	.....	w.	5 h'r	5 h'r	h'vy	w.	squally.
S. S. Romano, Boston, Mass	.....	.....	46	7.8	.....	w.	.....	.....	5	.....	8	.....	w.	.....	.....	long	w.	cloudy.
S. S. Salerno, New York, N. Y	.....	.....	19	— 7.2	.....	ene.	.....	.....	2	.....	2	.....	e.	snow	snow	.....	.....	fine.
S. S. Aries, N. 40° 22′, W. 73° 10′*†	30.04	763.0	44	6.7	.....	w.	.....	.....	6	.....	10	.....	w	3 h'r	3 h'r	.....	.....	snowing.
S. S. Catherine Whiting, Delaware river †	29.94	760.5	.....	.....	.....	wsw.	.....	.....	5	.....	9	.....	w.	rain	rain	h'vy	var.	cloudy.
S. S. Norman, N. 41° 33′, W. 69° 59′†	30.21	767.3	.....	.....	.....	vsw.	.....	.....	1	.....	8	.....	sw.	o	o	.....	.....	
S. S. Saxon, N. 41° 50′ W. 69° 53′ †	29.86	758.4	.....	.....	.....	w.	.....	.....	2	.....	.....	.....	nw.	10 h'r	10 h'r	rg'h	se.	cloudy.
	29.81	757.2	35	1.7	.....	wsw.	.....	.....	4	.....	5	.....	wnw.	o	o	.....	.....	fine.
MISCELLANEOUS.																		
Bg. Abbie Clifford, Havana, Cuba, W. I†	30.13	765.3	68	20.0	.....	e.	.....	.....	1	.....	2	.....	se.	0	0	.....	.....	fine.
Schr. Abbie H. Gheen, Spring Wood Mills, S. C†	30.23	767.8	50	10.0	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	raining.
Bk. Adelaide, S. 22° 10′, W. 39° 53′*†	30.04	763.0	81	27.2	.....	wnw.	.....	.....	1	.....	3	.....	n.	0	0	mod.	nne.	fair.
Bg. Alcira, N. 35° 40′, W. 71° 57′	30.11	764.8	.....	.....	.....	w.	.....	.....	5	.....	10	.....	wsw.	8 h'r	8 h'r	mod.	sw.	cloudy.
Bk. Alpha, Demerara, Brit. Guiana*†	29.98	761.5	80	26.7	.....	ne.	.....	.....	2	.....	4	.....	.....	2 h'r	2 h'r	.....	.....	fair.
Schr. Annie A. Holton, Tampico, Mexico†	30.03	762.7	73	22.8	.....	sw.	.....	.....	3	.....	2	.....	sw.	o	o	sm'h	.....	fair.
Bk. Anna Thormann, S. 18° 19′ W. 5° 52′	30.08	764.0	73.9	23.3	74	ese.	.....	.....	3	.....	10 k	.....	ese.	o	o	mod.	se.	cloudy.
Bg. S. Antonio Lopez, Barcelona, Spain	30.22	767.6	53	11.7	48	e.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	clear.
Bgt. Arthur, S. 22° 25′, W. 34° 31′*†	30.16	766.1	.....	.....	.....	nne.	.....	.....	4	.....	5	.....	nne.	o	o	mod.	var.	

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Schr. Annie R. Lewis, N. 30° 05′. W. 67° 32′			72	22.2		ssw.			5		2		ssw.	0	0	mod.	se.	clear.
Bk. B. F. Watson, Hong Kong, China†	30.24	768.1	68	20.0		ne.			2		3		ene.	0	0			clear.
Bg. Belle of the Bay, Galveston, Texas†	29.93	760.2				ese.			2		0?			light	light			drizzling!
S. Benledi, N. 37° —′, W. 73° —′*	30.09	764.3	60	15.6	65	nnw.			4–5		8		w.	4 h'r	4 h'r	high	sw.	cloudy.
Bkt. Bonny Doon, N. 30° 47′, W. 21° 00′*†	30.06	763.5				ene.			4		10		e.	driz.	driz.	long	e.	cloudy.
Bk. Bremen, N. 31° 42′, W. 23° 25′ *	30.17	766.3				sse.			3		4		s.	rain	rain	light	se.	fair.
Bk. Champion, Philadelphia, Pa			42	5.6		nnw.			4		8		ssw.	0	0			fair.
Bk. Commerce, N. 37° 30′, W. 18° 54′ †	30.18	766.6	61	16.1		sse.			4		8		sse.	0	0	long	nw.	fair.
S. S. D. J. Foley, N. 11° 35′, W. 78° 47′ *†	29.97	761.2	80	26.7	82	ene.			4		2		e.	0	0	cross	var.	clear.
S. E. B. Sutton, N. 37° 30′, W. 50° 16′ †	30.39	771.9	54	12.2	87	sse.			3		8		sw.	0	0	long	n	cloudy.
Bk. E. D. Bigelow, N. 42° 27′, W. 22° 12′*†	29.90	759.4				s.			6		10		wnw			long	nw.	raining.
Schr. Edith R. Seward, Wilmington, N. C†	30.13	765.3	43	6.1		calm			0				ne.	8 h'r	8 h'r			rainy.
Bk. Edmund Phinney, S. 19° 26′, W. 35° 20′†	30.05	763.3				e.			3		2			slight	slight	mod.	e.	clear.
S. E. J. Spicer, N. 51° 44′, W. 6° 10′	30.15	765.8	53	11.7	100	w.			3		10		wsw.	20 h'r	20 h'r	mod.	sw.	cloudy.
Bk. E. L. Pettingill, S. 44° 48′, W. 112° 07′*†	30.40	772.1	62	16.7		n.			3		2		ne.	0	0	sm'h	sw.	
Bk. Essex, Majambo, Madagascar*†	29.75	755.6	78	25.6		nw.			4					rain	rain		nw.	showery.
Schr. F. E. McDonald, Jacksonville, Fla†	30.11	764.8				calm			0		fg			0	0			
U. S. F. C. S. S. Fish Hawk, Washington, D. C†	30.23	767.8	48	8.9	85	calm			0		10							cloudy.
S. S. Foscolia, N. 52° 55′, E. 1° 26′						nw.			5		5		nw.	0	0	sm'h		fair.
Bk. Freya, Matanzas, Cuba, W. I.						calm			0					0	0			hazy.
S. Geo. Stetson, S. 12° —′ W. 35° —′ *†	30.08	764.0	80	26.7	87	e.			4		2?		e.	slight	slight	chop	e.	cloudy.?
Bg. Gipsey Queen, N. 26° 40′, W. 66° 22′*†	30.10	764.5	73	22.8		ese.			5		0			0	0	sm'h		fair.
S. Grecian, N. 36° 20′ W. 56° 20′†.	30.12	765.0	63	17.2	83	ssw.			6		10		w.	0	0	sm'h	sw.	hazy.
Bk. Grey Eagle, S. 22° 43′, W. 39° 10′*†	29.90	759.4				var.			2		6			0	0		ene.	fine.
Bk. Gronsvaer, Auckland, N. Z.	30.13	765.2	72.6	22.6		sw.			4		2		sw.	0	0			clear.
Bk. Hattie G. McFarland, Demerara, Brit. Guiana*†	30.08	764.0	78	25.6		e.			4		3		e.	2 h'r	2 h'r			
Schr. Hattie Weston, St. Pierre, Martinique, W. I*†	30.18	766.6	79	26.1		e.			2		10		e.	5 h'r	5 h'r	sm'h		raining.
S. Hedwig, N. 50° 31′, W. 0° 43′	30.21	767.3	50.2	10.1		s.			6		10		s.	3 h'r	3 h'r	3	w.	drizzling.
Bk. Heinrich & Tonio, N. 36° 22′, W. 21° 22′			65	18.3		ssw.			3		2		ssw.	0	0	long	nw.	fair.
Schr. Isabel Alberto, New York, N. Y†	30.08	764.0				w.			2		5		w.	rain	rain			clearing.
Schr. James Slater, N. 29° 50′, W. 55° 40′ *†	30.33	770.4	70	21.1		se.			3		10		se.	0	0	mod	ene.	cloudy.
Bk. Johanne, N. 22° 45′, W. 26° 34′ *†	30.05	763.3	72	22.2		nne.			3		3		var.	0	0	mod.	n.	fine.
Schr. John L. Thomas, Bianguilla, W. I*†	30.16	766.1				ene.			3		2		e.	½h'r	½h'r			clear.
Bkt. Josephine, S. 28° 13′, W. 24° 39′†	30.14	765.5	82	27.8	52	ene.			4		0			0	0	sm'h		clear.
S. S. J. W. Wilson, Off Sabine Light, La *†	29.89	759.2	54	12.2		ne.			1		10			2 h'r	2 h'r			drizzling.
Light House Tender, Laurel, Tampa Bay, Fla†	30.11	764.8	66	18.9		s.			3		10			0	0			foggy.
Bk. Louise Adelaide, N. 23° 50′, W. 91° 00′ *†						sse.			2		2		se.	0	0	sm'h	se.	fine.
Bg. L. & W. Armstrong, N. 40° 19′ W. 73° 14′*†	30.08	764.0				wsw.			6		7		wsw.	0	0	sm'h	s.	clearing.
S. S. Malabar, N. 35° 40′, W. 15° 40′ *†	30.22	767.6				e.			2		0			0	0	str'g	nw.	clear.
Bk. Nary A. Troop, N. 40° 10′, W. 51° 30′ *†	30.20	767.1				ssw.			6		8		sw.	0	0	mod.	nne.	threatening.
Bk. Matilda C. Smith, N. 38° 27′, W. 65° 17′ †	30.11	764.8				wnw.			7		6		wnw.	0	0	r'gh	var.	fine.
Schr. Minnie A. Bonsall, Mayport, Fla †	30.10	764.5	64	17.8		e.												light rain.
S. M. P. Grace. S. 29° 14′. W. 23° 12′ *	30.12	765.0	80	26.7		n.			2		2		nne.	0	0	sm'h	ne.	
Bg. Myrtle, Barbadoes, W. I *†	29.95	760.7				ene.			4		1		ene.	0	0			fair.
Bkt. Norena, Off Orange Cays, W. I *†	30.25	768.3				ese.			4		1		se.	0	0	sm'h		fine.
Bg. O. C. Clary, N. 27° 46′, W. 75° 14′ *†	30.20	767.1	76	24.4	95	se.			2		1		se.			sm'h	e.	clear.
Schr. Ocean Traveler, N. 32° 58′, W. 67° 28′ †.	30.23	767.8				sw.			4		5					mod.	s.	fair.
Bk. Ottawa, Alicante Harbor, Spain*	30.27	768.8	57	13.9		calm			0		0			0	0			clear.
S Paramita, San Francisco, Cal			39	3.9		nnw.			2					0	0			clear.
Schr. Pearl Nelson, Barbadoes, W. I†*	30.10	764.5							6		3			0	0			
S. S. Peconic, N. 41° 45′, W. 52° 00′ *†	30.10	764.5	42	5.6		ese.			3				se.	0	0	long	n.	hazy.
S. S. Raleigh, N. 23° 00′, W. 81° 00′*†	30.10	764.5	76	24.4		ese.			2		2		ene.	0	0	sm'h		
Bk. Reindeer, Martinique, W. I*	30.13	765.3				ene.					8			0	0			squally.
S. Rudolph, N. 42° 44′. W. 18° 16′*	29.91	759.7	57	13.9		ssw.			3		10		var.	4 h'r	4 h'r	cross	var.	rainy.
Schr. S. B. Hubbard, Jacksonville, Fla*†	30.20	767.1	66	18.9		calm			0		10			6 h'r	6 h'r			dense fog.
Bk. Scud, N. 11° 40′, W. 60° 24′*†	30.08	764.0	82	27.8		ene.			6		2		ene.	0	0	mod.	ne.	
Bk. Southern Belle, N. 23° 07′. W. 45° 42′ *†	30.10	764.5	76	24.4		ene.			5					sq 'lls	sq'lls	sm'h		clear.
S. Sovereign of the Seas, S. 3° 58′, W. 118° 35′*†	30.00	762.0	74	23.3	90	ese.			3		10		se.	0	0	mod.	sse.	cloudy.
Bk. Sunbeam, N. 38° 42′, W. 9° 05′*†	30.32	770.1	54	12.2	80	ne.			6		0			0	0			clear.
S. S. Sunbeam, N. 43° 09′, W. 44° 56′	30.29	769.4	39	3.9	91	nw.			5		8		nw.	sleet	sleet	3	nw.	showery.?
S. Titan, N. 19° 05′, W. 36° 41′*†	30.12	765.0	75	23.9	81	e.			4		1		e.	0	0	sm'h	e.	fair.
Bk. Wandering Jew, Montevideo, Uruguay †	29.96	761.0	75	23.9		n.			3		10		n.	0	0			threatening.
Bk. Winifred, N. 32° 10′, W. 55° 00′ *†	30.30	769.6				var.							sw.	0	0		nne.	fair.
Schr. Wm. Wiler, N. 29° 05′, W. 67° 00′*†	30.33	770.4				s.			1		2		sse.	0	0	mod.	se.	fine.
Bk. Xenia, N. 20° 45′, W. 35° 52′*†	30.16	766.1	74	23.3		ene.			5		3		ene.	1 h'r	1 h'r	mod.	ene.	fair.

International Chart I. January 18, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 19, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.32	770.2	59.4	15.2	81	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	**Malaterre.**
Algiers	.....	.....	30.29	769.3	51.8	11.0	92	nne.	.....	.....	2	.....	10	.....	.....	0.228	5.8	covered	**Thève.**
La Calle	.....	.....	30.06	763.4	55.8	13.2	75	sw.	.....	.....	4	.....	5	.....	.....	0.551	14.0	cloudy	**Fonfréde.**
Tunis	.....	.....	30.03	762.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**Jacques.**
Saida	.....	.....	30.31	769.8	52.9	11.6	55	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	**Pérès.**
Tebessa	.....	.....	30.09	764.3	44.2	6.8	77	nw.	.....	.....	1	.....	4	.....	.....	0.472	12.0	cloudy	**Dognon.**
Geriville	.....	.....	.....	.....	44.6	7.0	59	nw.	.....	.....	2	.....	0	.....	.....	0	0	clear	**Lonchamp.**
Leghouat	.....	.....	30.33	770.3	46.4	8.0	92	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	**Abraham.**
Biskra	.....	.....	30.22	767.5	62.6	17.0	39	nw.	.....	.....	2	.....	4	.....	.....	0	0	cloudy	**Mulau.**
Australian.																			
Melbourne, Victoria	29.82	757.4	29.91	759.7	72.6	22.6	76	sw.	6	2.7	.....	.....	9	.....	.....	0	0	.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cracow, I. R Observatory	30.03	762 8	30.03	777.9	29.1	— 1.6	80	se.	.....	.....	2	.....	4	.....	.....	0	0	.....	Prof. Ivan Stozir.
Eperies	29.70	754.4	30.51	774.9	30.3	2.4	68	sse.	1.8	0.8	.....	.....	1	.....	.....	0	0	.....	Dr. Wierzbiski.
Gratz	29.65	753.2	30.60	777.3	27.3	— 2.6	92	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Julius Mikolik.
Hermannstadt	29.30	744.3	30.62	777.8	25.2	— 3.8	71	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Kremsmunster, Obs'y	29.06	738.0	30.59	776.9	31.3	— 0.4	85	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Lemberg	29.13	740.0	30.57	776.4	30.7	— 0.7	88	calm	.....	.....	0	.....	10	.....	.....	0	0	gloomy	The Staff.
Neu Schmecks	29.48	748 9	30.54	775 7	31.3	— 0.4	63	s.	.....	.....	1	.....	2	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	27.00	685.8	30.46	773.6	43.2	6.2	45	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Dr. V. von Szontagh.
Szanthmar	30.25	768.4	30.37	771.4	44.6	7.0	39	nne.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szegedin	30.10	764.4	30.56	776.3	23.7	— 4.6	100	sw.	.....	.....	1	.....	10	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Trieste	30.32	770.1	30.62	777.8	26.6	— 3.0	96	ne.	.....	.....	2	.....	5	.....	.....	0	0	.....	Karl Stancel.
Vienna	30.26	768.6	30.36	771.1	36.9	2.7	31	ne.	.....	.....	6	.....	0	.....	.....	0	0	.....	Royal Academy.
	29.83	757 7	30.00	777.1	30.7	— 0.7	75	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.96	761.0	30.06	763.5	38.2	3.4	82	s.	12	5.4	.....	.....	10	.....	.....	0.290	7.4	misty	W. Boswell
Armagh, Observatory	29.54	750.3	29.78	756.4	46.4	8.0	92	s.	28	12.5	.....	.....	10	.....	.....	.....	.....	raining	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.05	763 3	43.9	6.6	93	se.	22	9.8	.....	.....	10	.....	.....	.....	.....	raining	John Hartnup.
Bolton, Sharples	.....	.....	30.05	763 3	43.9	6.6	93	sse.	3	1.3	.....	.....	10	.....	.....	.....	.....	raining	Thomas Mackereth.
Bradford, Yorkshire	29.56	750 8	30.10	764.5	41.9	5.5	95	sw.	.....	.....	2	.....	10	.....	.....	0.17	4.3	raining	McLandsborough&Preston.
Bridgetown, Barbadoes	29.72	754.9	30.12	765.0	43.7	6.5	89	ne.	.....	.....	3	.....	2	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington	30.05	763 3	30.08	764.0	80.0	26.7	71	sw.	.....	.....	1.4	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	30.18	766.6	30.32	770 1	48.4	9.1	60	s.	.....	.....	1	.....	10	.....	.....	blank	blank	gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.98	761.5	30.21	767 3	51.6	10.9	89	s.	.....	.....	5	.....	7	.....	.....	.....	.....	d clouds	The Staff.
Fort Napier, Natal	27.52	699.0	29.74	755.4	69.0	20.6	85	se.	.....	.....	1	.....	10	.....	.....	.....	.....	showery	Corpl. F. Milner, A. H. C.
Galway	29.61	752.1	29.65	753.1	51	10.6	86	s.	.....	.....	5	.....	9	.....	.....	0.15	3.8	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.24	768.1	30.29	769.4	55.9	13.3	93	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	d. clouds	Sgt. J. Norris, A. H. C.
Glasgow, Observatory	29.74	755.4	29.95	760.7	41.7	5.4	81	e.	.....	.....	5	.....	fg	.....	.....	.....	.....	foggy	Barry Urquhart, Asst.
Greenwich, Royal Obs'y	30.12	765.0	30.29	769.4	46.0	7.8	94	s.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	The Staff.
Guernsey	30.01	762 2	30.32	770.1	50.0	10.0	93	ssw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	A. Collenette, F. M. S.
Kew, Observatory	30.26	768.6	30.29	769.4	46.5	8.1	92	s.	12	5.4	.....	.....	10	.....	.....	.....	.....	raining	The Staff.
Leicester, Museum	29.94	760 5	30.21	767.3	44.0	6.7	67	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	J. C. Smith.
Malta, Mediterranean	29.89	759.2	29.97	761.2	57.2	14.0	77	ne.	.....	.....	2	.....	0	.....	.....	0	0	d. clouds	Corpl. Keene, A. H. C
Nassau, Bahamas	30.19	766.8	30.23	767.8	76.0	24.4	85	se.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe
Oscott, St. Mary's College	29.63	752.6	30.17	766.3	42.8	6.0	96	se.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	Rev. Jas. W. Browne
Oxford, Radcliffe Obs'y	30.02	762.5	30.24	768.1	42.8	6.0	96	se.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	The Staff.
Plymouth	30.15	765 8	30.23	767.8	50.5	10.3	97	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	29.68	753.9	29.78	756.4	40.8	4.9	73	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.24	768.1	30.31	769.9	40.0	4.4	63	ene.	.....	.....	3	.....	5	.....	.....	blank	blank	d. clouds	W. H. Lyne.
Shemeld	29.84	757.9	30.13	765.3	42.4	5.8	92	sw.	.....	.....	1	.....	10	.....	.....	0.15	3.8	raining	W. F. Cooper.
Silloth Rectory	29.96	761.0	29.99	761 7	43.8	6.6	82	se.	.....	.....	4	.....	10	.....	.....	0.364	9.2	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.10	764.5	43.1	6.2	89	s.	21	9.4	.....	.....	10	.....	.....	.....	.....	raining	Rev. S. J. Perry.
Stratfield Turgiss	30.10	764.5	30.32	770 1	42.8	6.0	96	se.	.....	.....	0–1	.....	10	.....	.....	.....	.....	rain & fog	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	30.13	765.3	30.20	767.1	53	11.7	86	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	gloomy	W. Newcombe.
Valencia, Observatory	29.72	754.9	29.75	755.6	52.0	11.1	87	s.	52	23.2	.....	.....	10	.....	.....	.....	.....	raining	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	0	—14.4	.....	calm	0	0	.....	0	0	.....	.....	0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.30	769.9	30.34	770.6	7	—13.9	98	nw.	8	3.6	.....	0	0	.....	.....	0.300	7.6	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.35	770.9	30.42	772.7	1	—17.2	100	calm	0	0	.....	0	0	.....	.....	0.02	0.5	clear	G. A. Blair.
Cornwall	30.34	770.6	30.50	776.2	9.0	—12.8	100	e.	.....	.....	1	.....	10 8	.....	.....	0	0	overcast	Jas. Smith, M. A.
Dalhousie	30.35	770.9	30.40	772.1	5.5	—14.7	.....	w.	.....	.....	2	.....	0	.....	.....	0	0	blue sky	R. A. Johnson.
Father Point, Quebec*	30.46	773 7	30.48	774.2	8	—13.3	91	n.	5	2.2	.....	0	5 8	.....	calm	0.03	0.8	clear	J. McWilliams.
Fort Garry, Manitoba*	29.64	752.8	30.64	778.2	—21	—29.4	100	n.	17	7.6	.....	.....	10 n	.....	n.	Inap.	Inap.	light snow	James Stewart.
Fredericton	30.43	772 9	30.50	774.7	5.1	—14.9	85	nw.	8	3.6	.....	.....	.....	.....	.....	0.030	0.8	fair	Prof. Harrison, L. L. D.
Granton	29.03	737.1	30.21	767 3	20.3	— 6.5	96	e.	9	4.0	.....	.....	10 n	.....	.....	0	0	overcast	Jas. Grant.
Halifax, N. S*	30.28	769.1	30.43	772.9	9	—12.8	96	w.	4	1.8	.....	0	0	.....	.....	0.010	0.3	clear	A. Allison.
Hamilton	29.80	756.9	30.22	767.6	22.5	— 5.3	78	ne.	.....	.....	3	10 c	0	ne.	.....	0.20	5.1	snowing	Geo. Dickson, B. A.
Kingston, Ontario*	30.10	764.5	30.48	774.2	10	—12.2	91	ne.	7	3.1	.....	.....	10 8	.....	.....	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	30.39	771.9	30.63	778 0	5	—15.0	87	e.	4	1.8	.....	.....	10 n	.....	.....	0	0	cloudy	C. H. McLeod, C. E.
Ottawa	30.20	767.1	30.47	773.9	3.1	—16.1	98	calm	.....	.....	0	.....	10 8	.....	.....	0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.05	753.1	30.41	772.4	9	—12.8	83	e.	15	6.7	.....	2 k	8 k8	w.	w.	0	0	cloudy	Rev R. Mosley.
Peterboro	29.59	751.6	30.42	772.7	12.7	—10.7	80	e.	.....	.....	5	.....	10 n	.....	.....	0	0	overcast	J. Dixon, B. A.
Port Dover, Ontario	29.48	748.8	30.22	767.6	20	— 6.7	100	e.	12	5.4	.....	.....	10 n	.....	.....	0	0	threatening	H. Morgan.
Port Stanley, Ontario	29.49	749.0	30.18	766.6	21	— 6.1	87	e.	20	8.9	.....	.....	10 n	.....	e.	0.02	0.5	light snow	M. Payne.
Quebec, Quebec*	30.22	767.6	30.59	777.0	— 1	—18.3	68	w.	.....	.....	1	0	sk.	.....	.....	0.35	8.9	clear	Capt. Ashe, R. N
Rockliffe, Ontario*	30.07	763.8	30.62	777 7	—19	—28.3	68	calm	0	0	.....	5 c	0	nw.	.....	0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.49	749.0	30.27	768.8	15	— 9.4	100	se.	15	6.7	.....	.....	10 8	.....	.....	0	0	cloudy	
St. Andrews, N. B	30.43	772.9	30.48	774.2	11	—11.7	89	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	
St. John, N. B	30.29	769.4	30.47	773 9	10.0	—12.2	100	n.	0	2.7	.....	0	0	.....	.....	0	0	blue sky	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.88	758 9	15.8	— 9.0	.....	n.	.....	.....	4	.....	.....	.....	.....	0	0	.....	The Commandant.
Stratford	28.85	732.8	30.22	767.6	19.1	— 7.2	92	se.	15	6.7	.....	.....	10 8	.....	.....	0	0	overcast	G. J. Macgregor, M. A.
Sydney, C. B*	30.16	766.1	30.23	767.8	9	—12.8	83	w.	19	8.5	.....	0	0	.....	.....	0.02	0.5	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.92	760 0	30.33	770.4	22	— 5.6	84	e.	25	11.2	.....	.....	10 n	.....	.....	0	0	cloudy	Magnetic Observatory.
Windsor	30.31	769 9	30.41	772.4	8.0	—13.3	100	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	Prof. W. H. Butler.
Woodstock	29.11	739.4	30.25	768.3	20.9	— 6.2	91	ne.	37	16.5	.....	9 k	0	w.	.....	0	0	d. clouds	Prof. Wolverton, M. A.
Yarmouth, N. S*	30.42	772.7	30.49	774 4	23	— 5.0	76	n	3	1.3	.....	.....	10 k	.....	n.	0	0	cloudy	Lt. F. E. Wilmot, R. A.
Cape Colony.																			
Cape St. Francis Lt. House	29.92	760 0	29.95	760.7	64.6	17.8	82	w.	10.8	4.8	.....	.....	10 n	.....	.....	0.300	7.6	showery	John Duthie.
Springbok Fontein	27.88	708.1	.....	.....	67	19.4	73	sSW.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction Upper.	Clouds. Direction Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.53	623.0	.....	.....	18.3	— 7.6	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	clear	Mission, S. J.
Tchang-kia-tchouang	30.27	768.8	30.38	771.6	20.8	— 6.2	64	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Zi-Ka-Wei, near Shanghai	30.40	772.2	30.43	772.8	26.6	— 3.0	85	e.	4.5	2.0	.....	6 cs	0	w.	.....	0	0	cloudy	M. Marc Dechevrens, S.J
Danish.																			
Copenhagen	30.16	766.0	30.21	767.2	37.9	3.3	93	wnw.	18	8	.....	.....	10	.....	.....	.....	.....	hazy	Oversergent Fischer.
Fanoe	30.24	768.2	30.26	768.7	36.5	2.5	96	w.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.34	745.2	29.38	746.3	12.6	—10.8	76	nne.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	29.25	742.9	29.27	743.4	— 0.8	—18.2	.....	calm	.....	.....	0	.....	1	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.48	748.7	29.52	749.9	4.5	—15.3	.....	sw.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.03	737.4	29.08	738.5	29.1	— 1.6	92	e.	.....	.....	6	.....	2	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.61	752.1	29.65	753.0	41.5	5.3	65	sw.	22	10	.....	.....	10	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	30.09	764.3	30.18	766.6	37.2	2.9	94	wsw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	29.35	745.4	29.39	746.6	— 6.5	—21.4	.....	e.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	29.80	756.9	30.48	774.1	40.3	4.6	93	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	M. Labroue, Director.
Alençon, Normal School	29.84	757.8	30.39	771.8	48.2	9	97	s.	.....	.....	1	.....	n	n.	n.	0.08	2.	hazy	M. Nicot, Director.
Arras, Engineer School	30.17	766.3	30.44	773.1	33.3	0.7	88	.....	.....	.....	3	.....	10	.....	.....	0	0	covered	M. Fénéon, Command't.
Avignon, Normal School	30.29	769.4	30.37	771.4	44.2	6.8	65	nne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.89	759.3	30.48	774.3	36.3	2.4	93	s.	.....	.....	1	0	2 k	.....	s.	0	0	slightly cl'dy	M. Saillard, Director.
Beauvais, Normal School	30.17	766.2	30.44	773.2	46.9	8.3	92	sse.	.....	.....	1	.....	10	.....	sse.	0.039	1.0	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.50	749.3	30.46	773.6	47.8	8.8	89	ne.	.....	.....	1	.....	n	.....	sw.	0	0	foggy	M. Gobin, Director.
Bordeaux, Observatory	30.10	764.5	30.37	771.4	42.3	5.7	94	e.	.....	.....	1	.....	10	.....	.....	0.003	0.2	covered	M. Rayet, Director.
Bourges, Normal School	29.89	759.1	30.47	773.9	37.4	3	93	e.	.....	.....	1	.....	fg	.....	.....	0	0	foggy	M. Malet, Director.
Brest, Naval Observatory	30.07	763.8	30.31	769.9	52.5	11.4	93	sw.	.....	.....	3	.....	8	.....	sw.	2.421	61.5	.....	M. de Kermaëo, Dir.
Caen, Normal School	30.26	768.6	30.34	770.6	52.9	11.6	93	ne.	.....	.....	.....	.....	0	.....	.....	0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.11	764.9	30.45	773.4	36.1	2.3	91	se.	.....	.....	2	.....	8	.....	.....	0.020	0.5	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.91	759.6	30.47	773.8	35.6	2.0	89	ese.	.....	.....	1	.....	10	.....	.....	0.024	0.6	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.65	737.8	30.46	773.7	40.6	4.8	81	n.	.....	.....	1	.....	8	.....	.....	0	0	foggy	M. Allnard, Director.
Cluny, Normal School	29.61	752.1	30.51	774.9	31.1	— 0.5	92	nw.	.....	.....	1	.....	.....	.....	nw.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.60	751.9	30.52	775.1	32.0	0	96	s.	.....	.....	1	.....	10 n	s.	s.	0	0	covered	Dr. Goulet, Director.
Gap, Normal School	27.76	705.2	30.40	772.1	41.0	5	74	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Jeangirard, Director.
Grenoble, du Rhone	29.17	741.0	30.32	770.2	52.3	11.3	71	n.	.....	.....	1	.....	1	.....	sw.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.65	753.0	30.45	773.4	43.2	6.2	70	nw.	.....	.....	1	0	2 kn	.....	se.	0	0	.....	M. Ablard, Director.
Guéret	28.85	732.8	30.39	772.0	46.4	8	72	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	30.02	762.4	30.29	769.4	53.2	11.8	75	sse.	.....	.....	2	.....	5	.....	sse.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.70	754.4	30.27	768.9	54.0	12.2	41	e.	.....	.....	2	0	0	.....	.....	0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.27	768.9	30.37	771.5	56.1	13.4	80	sse.	.....	.....	1	.....	2	.....	sw.	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.39	746.5	30.52	775.1	30.4	— 0.9	95	nne.	.....	.....	1	.....	hz	.....	.....	0	0	dense haze	M. André, Director.
Mans, Normal School	30.11	764.8	30.43	772.9	47.5	8.6	97	sw.	.....	.....	1	.....	fg	.....	.....	0	0	foggy	M. Piboën, Director.
Marseille, Observatory	30.03	762.8	30.30	769.7	57.4	14.1	67	sw.	.....	.....	1	.....	3	.....	.....	0	0	.....	M. Stephan, Director.
Montlouis	25.02	635.4	29.86	758.4	41.0	5.0	36	se.	3.8	1.7	.....	.....	0	.....	.....	0	0	clear	M. Caré for Dr. Finsa.
Montpellier, Normal School	30.21	767.2	30.34	770.6	50.4	10.2	70	n.	.....	.....	3	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.66	753.3	30.49	774.5	32.0	0	97	sesw.	.....	.....	1	.....	n	.....	.....	0	0	foggy	M. Husse, Director.
Nantes, Observatory	30.27	768.9	30.43	773.0	48.0	8.9	95	sse.	.....	.....	0–1	.....	10	.....	.....	0	0	foggy	M. Larocque, Director.
Perpignan, Observatory	30.24	768.1	30.35	771.0	52.9	11.6	48	se.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.38	543.0	.....	.....	32.0	0.0	.....	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Vaussenat.
Privas, Normal School	29.35	745.6	30.47	773.8	41.5	5.3	78	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.37	644.4	.....	.....	28.4	— 2.0	98	e.	.....	.....	3	.....	0	.....	.....	0.828	0.7	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	30.38	771.7	30.41	772.5	47.1	8.4	94	sse.	.....	.....	1	.....	10	.....	e.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.17	766.4	30.43	772.8	47.1	8.4	97	sw.	.....	.....	1	.....	10	.....	.....	0.008	0.2	covered	M. Brotier, Director.
Rodez, Normal School	28.21	716.6	30.40	772.1	49.1	9.5	43	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.34	770.5	30.38	771.7	48.9	9.4	92	se.	.....	.....	1	.....	10	se.	.....	0.12	3.	covered	M. Mouillot.
Saint Lô	.....	.....	.....	.....	51.8	11	94	w.	.....	.....	1	.....	10	.....	w.	0.071	1.8	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	30.26	768.7	30.43	772.9	43.9	6.6	100	s.	.....	.....	1	.....	10	.....	.....	0.154	3.9	.....	M. Renou, Director.
Toulouse, Observatory	29.68	753.9	30.41	772.5	45.9	7.7	83	ne.	.....	.....	1	.....	1	e.	.....	0	0	clear	M. Baillaud, Director.
Tours	30.24	768.1	30.42	772.6	49.3	9.6	89	s.	.....	.....	1	.....	10	.....	sw.	0.012	0.3	covered	M. de Tastes.
Versailles, Observatory	29.91	759.8	30.40	772.2	45.0	7.2	97	s.	.....	.....	1	.....	.....	.....	.....	0.126	3.2	.....	Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	30.20	767.0	30.35	770.8	48.7	9.3	71	ne.	7.8	3.5	.....	1 c	0	nw.	.....	0	0	.....	M. Cartier, Director.
German.																			
Ansbach	29.02	737.0	30.55	775.9	35.4	1.9	90	calm	.....	.....	0	.....	8	.....	.....	0	0	.....	Prof. Jnedt.
Bamberg	29.60	751.8	30.45	773.5	34.7	1.5	82	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	30.25	768.4	30.41	772.3	34.5	1.4	97	sw.	.....	.....	2	.....	10	.....	.....	0.031	0.8	foggy	Dr. Lensch.
Breslau	29.93	760.2	30.47	773.9	37.6	3.1	44	wsw.	.....	.....	2	.....	8	nnw	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	30.06	763.4	30.52	775.3	35.6	2.0	85	sw.	.....	.....	1	.....	10	.....	.....	0	0	foggy	Albert Senz.
Cassel	29.62	752.3	30.33	770.4	33.4	0.8	94	s.	.....	.....	4	.....	10	.....	.....	0.024	0.6	.....	Dr. H. Möhl.
Frankfort-on-the-Main	30.13	765.3	30.52	775.3	34.7	1.5	91	s.	.....	.....	1	.....	10	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	29.00	736.5	30.50	774.6	39.6	4.2	74	nne.	.....	.....	2	.....	9	ene.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	.....	.....	.....	.....	36.3	2.4	100	wsw.	.....	.....	3	.....	10	.....	.....	0.071	1.8	foggy	E. Preller.
Kiel	30.29	769.3	30.30	769.7	36.9	2.7	96	sw.	.....	.....	2	.....	10	.....	.....	0.055	1.4	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	30.02	762.6	30.47	773.8	37.9	3.3	75	s.	.....	.....	3	.....	7	.....	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	30.22	767.6	30.42	772.7	36.7	2.6	89	sw.	.....	.....	1	.....	10	.....	.....	0.020	0.5	foggy	Weather Observatory.
Memel	30.21	767.2	30.25	768.4	29.7	— 1.3	94	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	foggy	Issermann.
Munich	28.00	726.5	30.50	774.6	32.9	0.5	90	e.	.....	.....	1	.....	10	.....	.....	0	0	foggy	Central Station.
Neufahrwasser	30.28	769.0	30.29	769.4	33.8	1.0	81	sw.	.....	.....	2	.....	10	.....	.....	0.012	0.3	.....	A. Lothes.
Neustadt, Palatinate	29.92	760.0	30.46	773.6	33.6	0.9	84	calm	.....	.....	0	.....	10	.....	.....	0	0	dense fog	Dicknether.
Stuttgart	29.50	749.4	30.44	773.2	38.3	3.5	88	ne.	.....	.....	1	.....	8	w.	.....	0	0	foggy	Prof. Dr. Schoder.
Wustrow	30.33	770.4	30.35	771.0	34.9	1.6	100	sw.	.....	.....	4	.....	10	.....	.....	0	0	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.75	755.6	30.15	765.7	43.5	6.4	.....	ne.	.....	.....	.....	6.0	10	.....	.....	0	0	covered	Schmidt & Wourltsch.
Indian.																			
Kurrachee	29.96	760.9	30.01	762.2	74.7	23.7	56	sw.	20.0	8.9	.....	.....	2	.....	.....	0	0	d. clouds	
Deesa	29.44	747.9	29.92	760.0	82.5	28.1	23	wnw.	8.0	3.6	.....	.....	4	s.	.....	0	0	d. clouds	
Bombay	29.85	758.2	29.89	759.1	81.5	27.5	60	w.	10.0	4.5	.....	.....	1	sw.	.....	0	0	d. clouds	
Poona, Yarrowda	28.03	711.9	29.89	759.1	79.0	26.1	22	e.	10.0	4.5	.....	.....	5	.....	wsw.	0	0	d. clouds	
Belgaum	27.34	694.3	29.88	758.9	75.9	24.4	30	ese.	4.0	1.8	.....	.....	4	se.	.....	0	0	d. clouds	
Lahore	29.27	743.5	30.05	763.2	62.6	17.0	52	calm	0	0	.....	.....	6	.....	.....	0	0	.....	
Roorkee	29.10	739.1	30.03	762.8	64.8	18.2	44	s.	0.7	0.3	.....	.....	2	.....	w.	0	0	.....	
Agra	29.45	748.1	30.03	762.8	70.7	21.5	40	e.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.92	734.5	29.97	761.2	77.2	25.1	29	calm	3.0	1.3	.....	.....	3	w.	.....	0	0	d. clouds	
Jubbulpore	28.62	727.0	30.00	762.0	75.0	23.9	43	n.	2.0	0.9	.....	.....	2	.....	w.	0	0	d. clouds	
Lucknow	29.64	753.0	30.03	762.8	69.3	20.7	42	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.71	754.7	30.04	763.0	62.3	16.8	67	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.85	758.3	30.05	763.2	64.6	18.1	51	calm	2.1	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.97	710.4	30.06	763.4	61.2	16.2	41	n.	3.8	1.7	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.92	759.9	30.00	762.1	73.7	23.2	57	ne.	1.0	0.4	.....	.....	2	.....	.....	0	0	d. clouds	
Calcutta, Alipore	30.00	761.9	30.02	762.5	67.5	19.7	49	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.89	759.2	30.01	762.3	67.4	19.7	74	ene.	5.6	2.5	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.90	759.6	30.00	761.9	68.6	20.3	63	w.	2.8	1.2	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.70	754.4	30.05	763.3	61.3	16.3	85	ne.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Jeypore	28.51	724.2	29.99	761.7	70.7	21.5	54	se.	3.4	1.5	.....	.....	9	.....	se.	0	0	d. clouds	
Bellary	28.42	721.9	.....	.....	77.8	25.4	48	se.	6	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.66	753.4	.....	.....	79.7	26.5	57	ese.	1	0.4	.....	.....	2	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.																			
Udine	30.01	762.3	30.43	773.0	41.4	5.3	35	se.	7.4	3.3			0			0	0		Prof. Giovanni Clodig.
Milan	29.92	759.9	30.46	773.6	33.8	1.0	89	w.	3.1	1.4			9	sse.		0.028	0.7		Prof. Schianparelli.
Padua	30.32	770.0	30.43	772.9	41.9	5.5	33	ne.	5.6	2.5			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.51	749.5	30.45	773.5	31.6	— 0.2	96	nw.	0	0			10			0	0		Prof. F. F. Denza.
Genoa	30.13	765.3	30.32	770.2	47.3	8.5	37	n.	13.6	6.1			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.45	722.6	30.44	773.1	36.5	2.5	57	w.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	30.34	770 7	30.39	772.0	41.4	5.2	94	nw.	12.5	5.6			2			0	0		Prof. Luigi Guidi.
Florence	30.05	763.3	30.31	769.9	45 9	7.7	37	ue.			6		0			0	0		Prof. Costantino Pittei.
Leghorn	30.15	765.9	30.24	768.1	48.7	9.3	34	ne.	6.3	2.8			0			0	0		Prof. P. Monte.
Rome	30.02	762.6	30.20	767.1	52.7	11.5	47	n.	6.9	3.1			0			0	0		Prof. P. Tachini.
Lecce	29.88	759.0	30.14	765.5	50.5	10.3	43	ene.	15.0	6.7			0			0.008	0.2		Prof. C. de Giorgi.
Cosenza	29.24	742.7	30.14	765.5	49.6	9.8	74	wnw.	3.8	1.7			5	nw.		0	0		Prof. D. Conti.
Cagliari	29.97	761.2	30.17	766.2	54.1	12.3	70	nw.			2		5	e.		0.004	0.1		Prof. A. Pacinotti.
Palermo	29.87	758.8	30.13	765.2	51.8	11.0	80	ne.	0.7	0.3			10	ne.		0.736	18.7		Prof. G. Cacciatore.
Syracuse	29.99	761.7	30.03	762.8	54.7	12.6	72	ne.	34.2	15.3			10	ne		0.638	16.2		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.67	753.5	30.21	767.2	50.9	10.5	53	ne.	11.9	5.3			1			0	0		Prof. F. Brioschi.
Stelvio	22.25	565.1			19.9	— 6.7	74	ne.			2		0			0	0	clear	Prof. P. F. Denza.
Valdobbia	22 35	567.6			27.7	— 2.4	56	e.			2		0			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.75	755.6	29.78	756.4	25.0	— 3.9	98	nw.			2		9 n;ck		nw.	0.142	3.6	snowing	Hattori.
Awomori	29.63	752.7	29.67	753.6	26.8	— 2.9	86	wsw.	13.5	6.0			10 n			0.146	3.7	overcast	K. Ogawa.
Hakodate	29.62	752.4	29.63	752.6	27.4	— 2.6	87	wnw.	21.0	9.4		3	0	nw.		0	0	clear	
Hamamatsu	29.94	760.5	29.97	761.2	32.8	0.4	53	calm			0	8 ck;c	0	nw.		0	0	cloudy	
Kagoshima	30.19	766.9	30.20	767.2	33.7	0.9	89	n			2		10 s		nw	0	0	cloudy	G. Miyanohasa.
Kioto	29.81	757.2	30.00	761.9	50.1	— 1.1	100	wnw.	inap.	inap.		3 cs	6 ck		w.	0.003	0.1	fal.	M. Tojima.
Kochi	30.04	763.1	30.07	763.6	32.3	0.2	72	ene.	4.9	2.1		5	1	nw.	nw.	0	0	fair	K. Kusunose.
Misaka	30.14	765.4	30.16	766.1	36.0	2.2	68	w.			4	0	0			0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.00	762.0	30.21	767.4	38.7	3.7	64	nw.	6.0	2.7		4 c	4 s	wnw.	n.	0	0	cloudy	S. Takehayashi.
Niigata	29.84	757 9	29.88	758.9	30.3	— 0.9	72	w.	18.7	8.3		8ck;cs	2 ck	w.	w.	0.040	1.0	cloudy	M. Morita.
Nobiru	29.71	754.5	29.72	754.9	24.7	— 4.1	100	nw.	8.9	3.9		0	0			0	0	clear	H. Midzushima.
Numazu	29.82	757.5	29.86	758.4	32.7	0.4	40	ne.			4	0	0			0	0	clear	R. Kaneda.
Sakai	30.02	762.5	30.03	762.8	33.5	0.8	84	w.			2		10 n		w.	0.342	8.7	snowing	K. Yamawchi.
Sapporo					25.0	— 3.9	58	n.	33.0	14.7			10					snowing	
Tokei Obs'y, Yeddo	29.76	756.0	29.84	758.0	31.0	— 0.6	38	nw.	5.8	2.6		0	0			0	0	clear	The Staff.
Wakayama	29.97	761 3	30.03	762.7	37.3	2.9	66	n.	13.1	5.9			10 n			0.037	0.9	snowing	Y. Kuwamura.
Osaka	30.00	761.9	30.01	762.3	35.5	1.9	69	wnw.	16.6	7.4		2 ck	8 cks	w.	nw.	0	0	cloudy	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.70	754 4	29.89	759.2	81.9	27.7	71	e.	16.5	7.4		2ck;cs	4 k;n		e.	0.34	8.6	fair	Oliver & Figon.
MEXICAN.																			
Altata					48	8.9	77	ne.										cloudy	H. Diaz Pena.
Guanajuato	23.71	602.2	29.93	760.2	49.6	9.7	92	sw.	inap.	inap.		0	2 cn		n.	0	0	clear	Prof. Vicente Fernandez.
Leon	24.37	719.0	30.17	766.3	49.5	9.7	87	calm			0	4 c	0	n.		inap.	inap.		Prof. M. Leal.
Mazatlan	29.76	756.0	30.03	762.7	62.5	16.9	75	ne.	0.9	0.4		1 cs	0			0	0	foggy	F. Quijano, C. E.
Mexico, Central Obs'y	23.13	587.4	30.51?	769.8?	45.5	7.5	65	calm	0	0		8 c	0			0	0	very fine	The Staff.
Morelia	24.23	615 3	30.03	762.8	45.0	7.2	68	e.			2	0	0			0	0	fine	M. Tena, M. D.
Pabellon	23.97	608.8	30.07	763.6	48.2	9.0	88	ssw.			1					0	0		
Puebla, Catholic Institute	23.47	595.9	30.39	771.8	44.1	6.7	81	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
Zacatecas	22.53	572.2	30.27	768.9	45.6	7.3	84	wsw.	12.0	5.0		0	1 ns			0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.40	772.1	30.40	772.1	41.9	5.8		s.			3					0.051	1.3		
Groningen	30.29	769.4	30.35	770.8	39.6	4.2		sw.			2					0.173	4.4		
Hellevoetsluis	30.38	771.6	30.38	771.6	42.6	5.9	98	s.			2					0.146	3.7		
Utrecht	30.35	771.0	30.40	772.2	42.3	5.7	98	ssw.			1		hz.			0.106	2.7	hazy	H. van der Brink
Sub-series.																			
Batavia, Java	29.84	758.0			78.1	25.6	86	nnw.	0	0			9			2.95	75.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.88	759.0	29.95	760.6	38.8	3.8	90	sw.	18	8			8			0.441	11.2	raining	
Brono	29.50	749 2	29.54	750.2	37.8	3.2	80	sw.	29	13			10			0.157	4.0	raining	
Christiania	29.73	755 2	29.89	759.1	34.5	1.4	98	sw.	4	2			9			0.154	3.9	foggy	
Glaesvaer	29.43	747.6	29.46	748.2	39.2	4.0		sw.			7–8		8						
Lodingen	29.35	745.5	29.40	746.7	38.1	3.4	75	wsw.			2		9			0.228	5.8		
PORTUGUESE.																			
Angra, Azores	29.73	755.1	29.89	759.1	55.9	13.3	69	n.	19.9	8.9			3			0.433	11.0		Dr. J. A. Sampaio.
Campo Major	29.30	744.1	30.32	770.2	51.3	10.7	63	nne.	5.6	2.5			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.06	763 4	30.14	765.6	64.4	18.0	64	ese.	0.3	2.8			1			0	0		Capt. D. A. de Ounha.
Lisbon, Observatory	29.96	761.0	30.34	770.5	48.0	8.9	71	nne.	7.4	3.3			0			0	0		The Staff.
Ponta Delgada, Azores	29.85	758.2	29.92	760.0	55.4	13.0	95	nne.	23.0	10.3			10			0.890	22.6	raining	
Saint Paul de Lonado	29.69	754 0	29.88	759 0	54.6	29.2	63	w.	1.8	0.8			9			0	0		
Serra da Estrella	25 49	647.4	30.26	768.7	47.8	8.8	20	s.	1.3	0.6			0			0	0		
RUSSIAN.																			
Akmolinski	29.01	736.9	30.33	770.4	—38.4	—39.1	79	ene.	2	1		0	0			0	0		Major K. Lasarew.
Archangel	29.71	754 7	29.73	755 2	27.0	— 2.8	90	wsw.	13	6			10						Capt. Sselliwerstow.
Ashurada	30.91	785.0	30.81	782.6	20.1	— 6.6	60	ene.	13	6		0	2 ks			blank	blank		
Astrakhan	30.77	781.6	30.69	779 5	— 4.7	—20.4	68	wsw.	13	6		cs	6 s			0	0		Capt. Wisganow.
Baku	30.82	782.8	30.77	781.6	20.5	— 6.4	69	calm	0	0		0	0			0	0		
Barnaul	29.56	750.7	30.12	765.1	— 7.6	—22.0	79	sw.	13	6			10			0.008	0.2		Meteorological Obs'y.
Bielosersk	29.61	752.2	30.11	764.9	18.9	— 7.3	99	sw.	9	4			10 s			0	0		
Dorpat	29.92	759 9	30.17	766.4	29.1	— 1.6	96	ssw.	0	4			10 n			0	0		Observatory.
Ekaterinburg	28.89	733 8	29.99	761 7	—15.0	—26.1	76	w.	9	4			5			0.008	0.2	snow-drift	Meteorological Obs'y.
Elisawetgrad	30.32	770.1	30.82	782 9	10.9	—11.7	67	nne.	4	2		0	0			0	0		
Irkutsk	28.35	720.2	30.21	767.3	— 8.1	—22.3	90	calm			0		5			0	0		
Kasan	29.83	757.6	30.13	765.2	7.3	—13.7	83	wsw.	7	3			10			0.024	0.6		Observatory.
Kem	29.64	752.8	29.69	754.1	32.4	0.2	92	sw.	18	8			10			0	0	heavy cl'ds.	
Kertch	30.67	779 0	30.69	779.5	10.4	—12.0	85	calm	0	0		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.99	761.7	30.70	779.7	10.2	—12.1	89	ssw.	7	3		0	0			0	0		Observatory.
Koslov	29.90	760.9	30.55	775.9	4.5	—15.3	65	wsw.	13	6		0	0			0	0		
Libau	30.14	765.6	30.17	766.2	32.2	0.1	94	ssw.	16	7			10			0	0		E. Quass.
Lugan	30.52	775.2	30.73	780.6	— 0.4	—18.0	84	w.	9	4			9					light clouds	Meteorological Obs'y.
Moscow	29.88	758 9	30.41	772.3	16.0	— 8.9	69	wsw.	6.7	3.0			10 s					light sleet	
Nikolaiev	30.69	779.6	30.77	781.5	12.4	—10.9	79	ene.	13	6		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.01	762.3	30.10	764.5	—14.8	—26.0	69	w.	11	5			10			0	0		Iwanow.
Pekin, China	30.32	770.0	30.46	773.0	20.3	— 6.5	73	calm	0	0		0	0			0	0		Physicia Observatory.
Petrozavodsk	29.71	754.5	29.91	759.8	26.2	— 3.2	87	wsw.	27	12		c	5 ks			0.055	1.4		Dr. Bergmann.
Pinsk	29.99	761.8	30.52	775.3	26.8	— 2.9	61	s.	22	10		6 cs	0			0	0	light clouds	
Poti	30.33	770 3	30.35	770.8	33.6	0.9	92	e.	7	3		0	0			0.319	8.1		
St. Petersburg	30.09	764.2	30.10	764 6	27.5	— 2.5	87	sw.	9	4			10 n			0	0		Central Physical Obs'y.
Samarkand																			
Sevastopol	30.25	768 4	30.42	772.6	42.1	5.6	24	ne.	7	3		0	0			0	0		
Semipalatinsk	29.51	749.5	30.24	768.1	— 4.0	—20.0	86	wnw.	13	6			10			0	0		Major Lasarew.
Staroi Bykhov	30.06	763.6	30.57	776.5	16.3	— 8.7	36	se.	7	3			0			0	0	hazy	
Tiflis	29.24	742.7	30.81	782.5	17.6	— 8.0	68	e.	4	2		2 cs	0			0.083	2.1		Physical Observatory.
Tomsk	29.61	752.2	29.93	760.2	—10.3	—23.5	86	w.	2	1			0						
Vlatka	29.32	744 6	29.99	761.8	12.9	—10.6		calm	0	0			10			0.031	0.8		
Warsaw	30.00	761.9	30.44	773.2	34.9	1.6	64	wsw.	13	6		0	3 ks			0	0		Astronomical Obs'y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
												Upper.	Lower.	Upper.	Lower.				
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Wilna	29.94	760.5	30.39	771.9	26.2	— 3.2	74	s.	9	4			1			0.004	0.1	light clouds	**Berg, Assistant.**
Yeniseisk	29.59	751.5	29.91	759 6	— 0.2	—17.9	85	sse.	11	5			10			0.031	0.8	snowing	M. O. Marks.
Scottish.																			
Monach Lt					44	6.7	92	sse.			8		10			0.1	3.	sleeting	**J. Youngclauss.**
North Unst			29.77	756.1				w.			6		7						**Robt. Burnet.**
Spanish.																			
Barcelona, Met. Obs'y	30.24	768.1	30.35	770 8	51.1	10.6	61	s.	1.3	0.6		0	0			0	0	clear	**Antonio Rave, Director.**
Bilbao, Met. Obs'y	30.28	769.1	30.34	770 6	52.2	11.2	73	se.	1.6	0.7		0	0			0	0	clear	**Prof. Manuel de Naveran.**
Burgos, Met. Obs'y	27.32	693.9	30.40	772.2	40.6	4.8	74	w.	3.8	1.7		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.08	713.2	30.39	771.8	46.4	8.0	67	e.	2.7	1.2		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.21	767.3	30.35	770.9	58.3	14.6	68	wsw.	1.3	0.6		0	0			0	0	clear	Olayo Diaz, **Director.**
Oviedo	29.45	748.1	30.33	770.4	39.2	4.0	85	s.	5.8	2.6		0	0			0	0	clear	**Prof. L. G. Frades.**
Santiago, Met. Obs'y	29.33	745.0	30.24	768.1	54.3	12.4	65	calm	0	0			0			0	0	clear	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.97	761.2	30.02	762.6	73.0	22.8	76	nw.	0	0		2 cs	1 k			0	0	clear	**P. F. Faura, S. J.**
San Fernando, Naval Obs'y	30.17	766.4	30.27	768.9	57.2	14.0	57	ese.	22.9	10.3		0	1		e.	0	0		Capt. C. Pujazon, **R. N.**
San Juan de Porto Rico, W.I	30.10	764.4	30.19	766.7	75.2	24.0	92	se.	8.5	3.8		5 k	4 k	e.	e.	0.307	7.8	cloudy	Manuel Maese.
Swedish.																			
Haparanda	29.56	750.8	29.60	751.8	31.6	— 0.2	100	sw.			2		10			0	0		
Umea	29.61	752.0	29.66	753 3	32.7	0.4	92	w.			2		5			0	0		
Hernosand	29.67	753.5	29.72	754.8	32.0	0.0	100	calm			0		5			0	0		
Stockholm	29.70	754.4	29.88	758.9	33.1	0.6	96	sw.			4		10			0.004	0.1		
Wisby	29.95	760.7	30.01	762.2	33.8	1.0	100	wsw.			6		10					rain & snow	
Sub-series.																			
Upsala	29.74	755.4	29.83	757.6	33.1	0.6	94	sw.	13.4	6.0			10			0.079	2.0		S. G. Fineman.
Swiss.																			
Geneva	28.98	736.1	30.45	773.5	39.0	3.9	74	n.			3		1			0	0.	clear	**The Observatory.**
Turkish.																			
Constantinople			30.34	770.7	37.9	3.3	66	ene.	27	12.0			10		ne.	0.075	1.9		The Observatory.
Valona			30.12	765.1	53.8	12.1		ne.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.91	759.6	60.8	16.0	63	nne.			1	0	5 k	sw.	e.	0	0		Prof. C. V. A. van **Dyck.**
Samokov, Bulgaria	27.08	687.8			25	— 3.9	75	ne.			1	0	2 c		nw.	0	0	clear	**Fred L. Kingsbury.**
United States.																			
Albany, New York	30.46	773.7	30.55	776.0	12.5	—10.8	70	n.	4	1.8		0	4 s		nw.	0	0	fair	J. O. Barnes.
Alpena, Michigan	29.57	751.1	30.28	769.1	23	— 5.0	73	e.	25	11.2			10 s		e.	0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.72	627.9	29.84	757.9	30	— 1.1	81	sw.	1	0.4			10 s			0.23	5.8	**cloudy**	W. O. Barnes.
Assinnaboine, Ft., Montana	27.64	702 0	30 68	779.3	—37	—38.3	34	sw.	14	6.3		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.00	736.6	30.23	767.8	43.5	6.4	100	ne.	10	4.5			10 n			2.46	62.5	light rain	H. C. Smith.
Atlantic City, New Jersey	30.39	771.9	30.40	772.1	35	1.7	79	ne.	18	8.0			10 n			0.01	0.3	sleeting	Jas. M. Watson.
Augusta, Georgia	29.98	761.5	30.18	766.6	51	10.6	93	se.	3	1.3			10 s		sw.	1.25	31.7	cloudy	John Healy.
Baltimore, Maryland	30.39	771.9	30.44	773.2	33	0.6	78	e.	4	1.8			10 s			0.02	0.5	threatening	Geo W Felger.
Barnegat, New Jersey	30.44	773.2	30.46	773.7	35.0	1.7	79	e.	22	9.8			10 s			0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.28	743.7	29.30	744.2	28.9	— 1.7		ne.	20	8.9			10 n			0.01	0.3	cloudy	**Leonard Steineger.**
Bennett, Fort, Dakota	28 96	735.6	30.70	779 8	—28	—33.3	100	nw.	9	4.0		0	0			0.05	1.3	clear	A. Pritchard.
Benton, Fort, Montana	27.59	700.8	30.57	776.5	—35	—37.2	100	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	27.19	690 6			—23	—30.6		n.	2	0.9			10 s			0.05	1.3	cloudy	T. Gibson.
Bismarck, Dakota	28.63	727.2	30.62	777.7	—30	—34.4	100	nw.	10	4.5		0	0			0.03	0.8	clear	Cyrus Cramer.
Block Island, Rhode Island	30.49	774 4	30.52	775.2	25	— 3.9	73	ne.	22	9.8		2 cs	0	nw.		0	0	clear	J. T. Elker.
Boise City, Idaho	27.59	700.8	30.52	775.2	—12	—24.4	90	sc.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.38	771.6	30.55	776.0	18.0	— 7.8	67	n.	11	4.9		5 cs	0	nw.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.80	756 9	29.85	758.2	68.0	20.0	93	s.	12	5.4			10 s		s.	0	0	cloudy	M. McCarty.
Buffalo, New York	29.47	748.5	30.27	768 8	22.2	— 5.4	82	ne.	16	7.2			10 s		ne.	inap.	inap.	cloudy	W. Finn.
Buford, Fort, Dakota	28.59	726.2	30.79	782.1	—38	—38.9	100	nw.	1	0.4		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	30.30	769.6	30.61	777.5	8.0	—13.3	76	ne.	5	2.2			10 s		n.	0	0	cloudy	**G. O. Schaeffer.**
Cairo, Illinois	29.77	756.1	30.19	766.8	34.8	1.6	80	calm	0	0			10 s			0	0	cloudy	W. H. Ray.
Cape Henry, Virginia	30.27	768.8	30.29	769.4	38	3.3	100	ne.	10	4.5			10 s			0.22	5.6	cloudy	A. K. Alderson.
Cape May, New Jersey	30.36	771.1	30.39	771.9	38.0	3.3	85	e.	12	5.4			10 n			0.11	2.8	light rain	W. E. Smith.
Cape Mendocino, California	29.48	748.8	30.18	766.6	34.5	1.4	55	nw.	33	14.8		0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.18	766.6	30.20	767.1	63	17.2	93	s.	3	1.3			fg.			0	0	dense fog	F. W. Mixer.
Champaign, Illinois	29.24	742.7	30.11	764.8	31.3	— 0.4	78	s.	9	4.0			9 s		s.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.10	764.5	30.16	766 1	52	11.1	100	ne.	6	2.7			10s;fg		ne.	1.12	28.4	threatening	J. H. Smith.
Charlotte, N. Carolina	29.36	745.7	30.25	768.3	37.9	2.8	89	ne.	9	4.0			10 n		ne.	1.56	39.6	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.32	744 7	30.18	766.6	51.0	10.6	93	s.	5	2.2			10n;fg		s.	0.81	20.6	light rain	B. L. Goulding.
Cheyenne, Wyoming	23.89	606.8	30.14	765.5	—24.2	—31.2		n.	4	1.8		0	4 s			0	0	fair	E. McGovern.
Chicago, Illinois	29.33	745.0	30.08	764.0	30.2	— 1.0	65	se.	6	2.7			10 s			0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.32	770.1	30.34	770.6	37	2.8	100	e.	6	2.7			10n;fg		e.	0.07	1.8	light rain	C. F. Dickens.
Cincinnati, Ohio	29.44	747.8	30.13	765 3	36	2.2	89	e.	2	0.9			10 n			0.07	1.8	light rain	R. B. Watkins.
Cleveland, Ohio	29.34	745.2	30.12	765 0	29.8	— 1.2	79	se.	6	2.7			10 n			0.08	2.0	light snow	J. B. Newlin.
Coleman City, Texas	28.40	721.3	30.28	769.1	9	—12.8	80	n.	30	13.4			10 s		n.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.23	742.4	30.13	765.3	33	0.6	78	e.	1	0.4			10 s			0.01	0.3	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.19	716.0	30.21	767.3	13.0	—10.6	66	n.	17	7.6			10 s			0	0	cloudy	J. McGlone.
Davenport, Iowa	29.39	746.5	30.10	764.5	25	— 3.9	73	w.	16	7.2			10 n			0.04	1.0	light snow	W. B. Lamar.
Davis, Fort, Texas	25.07	636.8	30.05	763.3	33	0.6	74	sw.	1	0.4			10 s			0	0	**cloudy**	J. Williams.
Dayton, Washington T'y	28 91	734.3	30.71	780 0	—19	—28.3	51	n.	6	2.7		0	0			0	0	clear	**D. Moore.**
Deadwood, Dakota	25.46	646.7	30.40	772.1	—22	—30.0	100	sw.	3	1.3		0	0			0.01	0.3	clear	**F. Willson.**
Delaware Breakwater, Del	30.39	771.9	30.41	772 4	33	0.6	100	ne.	12	5.4			10 n		ne.	0.06	1.5	light rain	T. S. Townsend.
Denison, Texas	29.45	748.0	30.29	769.4	12.0	—11.1	100	n.	13	5.8			10 s			inap.	inap.	cloudy	J. W. Byram.
Denver, Colorado	24.71	727.6	30.23	767.8	—14.0	—25.6	56	calm	0	0		0	0			inap.	inap.	clear	F. M. Neal.
Des Moines, Iowa	29.33	745.0	30.30	769.6	— 9	—22.8	55	nw.	12	5.4		0	0			0.18	4.6	clear	F. W. Conrad.
Detroit, Michigan	29.37	746.0	30.13	765.3	28.0	— 2.2	88	ne.	17	7.6			10 n			0.02	0.5	light snow	**C. F. R. Wappenhans.**
Dodge City, Kansas	27.68	703 1	30.43	772 9	—16	—26.7	100	nw.	28	12.5		0	0			0.03	0.8	clear	V. P. Temple.
Dubuque, Iowa	29.28	743.7	30.66	703.5	26.3	— 3.2	84	sw.	4	1 8			10 s			0.10	2.5	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.33	745.0	30.14	765 5	22	— 5.6	87	ne.	24	10.7			10 n		ne.	0.03	0.8	light snow	N. B. Conger.
Eagle Pass, Texas	29.08	738.6	29.92	760.0	53.4	11.9	86	se.	4	1.8			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.30	642.6	30.26	768.6	—34	—36.7	100	n.	8	3.6		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.45	773.4	30.52	775.2	12.0	—11.1	70	nw.	10	4.5		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.33	694.2	30.26	768.6	— 9	—22.8	61	n.			6		10 s		n.	0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.10	662.9	29.98	761.5	25.0	— 3.9	64	se.	4	1.8		3 cs	0	se.		0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.42	747.3	30.19	766.8	29	— 1.7	88	sw.	6	2.7			10 n			0.03	0.8	light snow	Peter Wood.
Escanaba, Michigan	29.49	749.0	30.21	767.3	25.0	— 3.9	73	e.	14	6.3			10 s		e.	0	0	cloudy	George Heathcote.
Fredericksburg, Texas	28.24	717.3	30.06	763.5	28	— 2.2	77	n.	15	6.7			10 s			0	0	cloudy	Frank Halwegler.
Galveston, Texas	29.90	759.4	29.95	760.7	57	13.9	93	e.	12	5.4			fg.			0.01	0.3	dense fog	E. O'C. Machernay.
Grand Haven, Michigan	29.40	746.7	30.11	764.8	23.0	— 5.0	94	ne.	18	8.0			10 s		e.	inap.	inap.	cloudy	J. E. Mueller.
Grant, Fort, Arizona	24.99	634.7	29.89	759.2	36	2.2	66	e.	4	1.8		0	2 s			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.18	766.6	30.20	767.1	52	11.1	100	se.	14	6.3			10 n		se.	1.46	37.1	heavy rain	R. M. Crawford.
Helena, Montana	26.04	661.4	30.46	773.7	—34	—36.7	100	calm	0	0		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas																			J. P. Sherry.
Huron, Dakota	28.98	736.1	30.52	775.2	—23.3	—30.7	100	nw.	16	7.2		0	1 s			0.07	1.8	clear	S. W. Glenn.
Indianapolis, Indiana	29.28	743 7	30.12	765 0	33	0.6	81	s.	2	0.9			10s;fg			inap.	inap.	cloudy	**J. F. Jirdinston.**
Indianola, Texas	29.87	758.7	29.90	759 4	61.7	16.5	100	se.	8	3.6			10 s		se.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	29.04	737.6	30.28	769.1	8	—13.3	34	n.	14	6.3			10 s			0	0	cloudy	D. J. Carr.
Jacksonville, Florida	30.14	765.5	30.18	766.6	59	15.0	100	calm	0	0			fg.			0.14	3.6	dense fog	J. W. Smith.
Keogh, Fort, Montana	28.03	711.9	30.72	780.3	—34	—36.7	100	calm	0	0		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.51	749.5	30.21	767.3	7.0	—13.9	76	w.	14	6.3		0	0			0	0	clear	F. Z. Gosewisch.

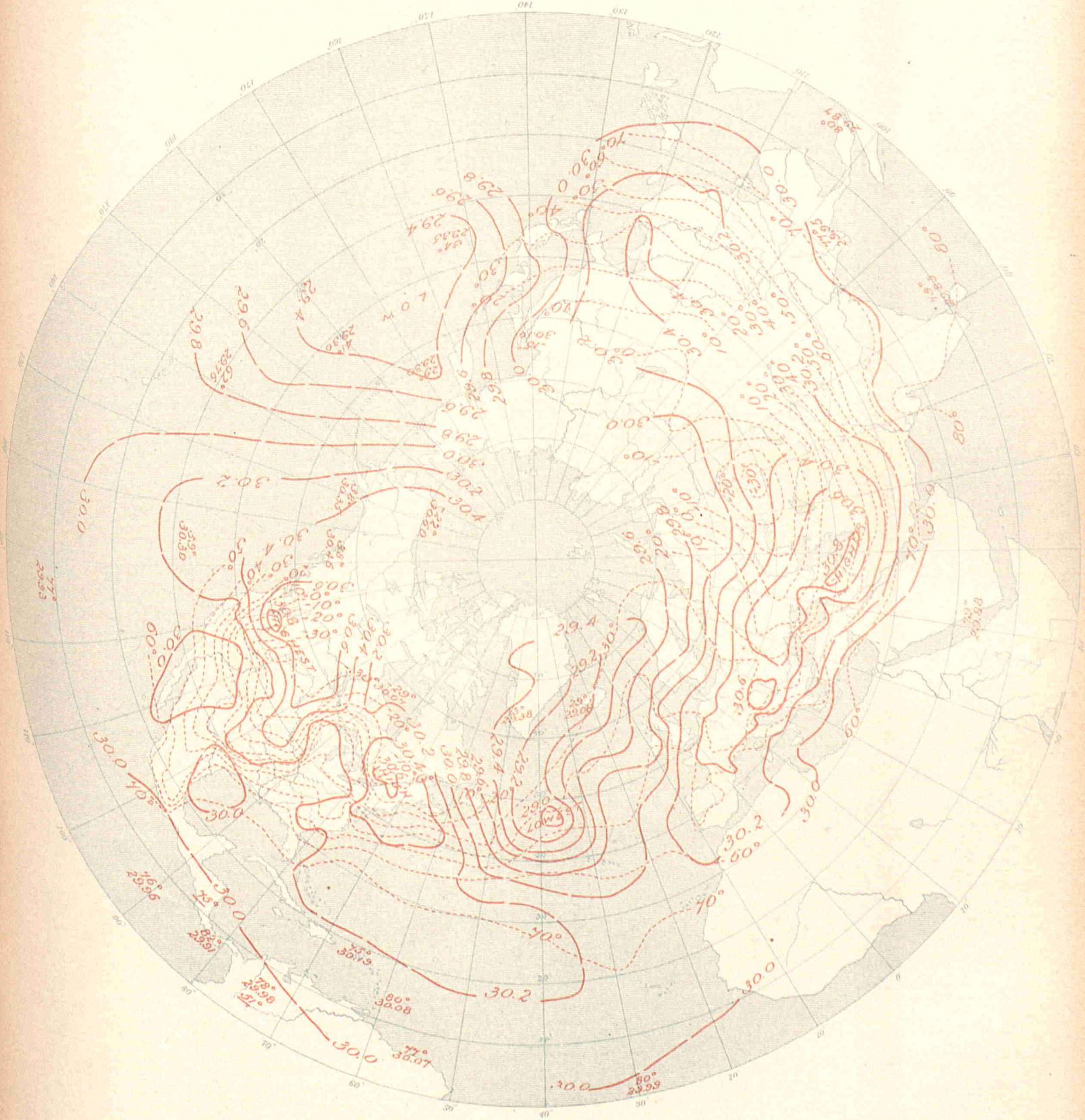
STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.10	764.5	30.12	765.0	74.0	23.3	97	se.	7	3.1		0	4ks;fg		se.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.23	767.8	30.25	768.3	43	6.1	100	ne.	10	4.5			10n;fg		ne.	0.37	9.4	light rain	H. Mc P. Baldwin.
Knoxville, Tennessee	29.10	739.1	30.18	766.6	46	7.8	100	calm	0	0			10s;fg			0.31	7.9	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.16	740.7	30.00	762.0	25	— 3.9	73	se.	3	1.3			10 n			0.05	1.3	light snow.	S. C. Emery
Leavenworth, Kansas	29.47	748.5	30.43	772.9	— 9	—22.8	74	nw.	14	6.3		4 k	0	nw.		0.10	2.5	fair	A. W. Browne.
Lewiston, Idaho	29.96	761.0	30.83	783.1	—12.5	—24.7	70	e.	2	0.9		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.79	756.7	30.12	765.0	37	2.8	82	w.	2	0.9			10 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.55	750.6	29.95	760.7	45	7.2	83	e.	5	2.2		10 k	0	e.		0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.54	750.3	30.12	765.0	40	4.4	82	e.	4	1.8			10 s			0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.64	752.8	30.36	771.1	35	1.7	89	ne.	3	1.3			10 n		ne.	0.20	6.6	light rain	Louis Duane.
Mackinaw City, Michigan	29.58	751.3	30.28	769.1	21.0	— 6.1	70	e.	30	13.4			10 s		e.	0	0	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.20	767.1	30.20	767.1	46.0	7.8	100	n.	12	5.4			10 n			0.89	22.6	light rain	William Daly.
Madison, Wisconsin	28.97	735.8	30.06	763.5	26	— 3.3	88	se.	8	3.6			10 n			0.07	1.8	light snow	C. A. Shaw.
Maginnis, Fort, Montana	25.72	653.3	30.28	769.1	—28	—33.3	39	n.	12	5.4		0	0			0	0	clear	F. Burke.
McKavett, Fort, Texas	27.84	707.1	30.23	767.8	12	—11.1	70	nw.	16	7.2			10 s			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.45	748.0	30.23	767.8	23	— 5.0	73	se.	24	10.7		10 k	0	se.		Inap.	Inap.	cloudy	J. Gilligan.
Memphis, Tennessee	29.78	756.4	30.14	765.5	40	4.4	100	calm	0	0			10 s			0.08	2.0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.27	743.4	30.07	763.8	30	— 1.1	88	se.	19	8.5			10 s			0.09	2.3	cloudy	W. Line.
Missoula, Fort, Montana	27.15	689.6	30.61	777.5	—25	—31.7	100	ne.	2	0.9		0	0			0	0	clear	J. H. Young.
Mobile, Alabama	30.02	762.5	30.06	763.5	61	16.1	96	s.	2	0.9			10 n		s.	1.49	37.8	thund'r st'm	C. A. Read.
Montgomery, Alabama	29.83	757.7	30.07	763.8	61.3	16.3	99	se.	6	2.7			10 n		w.	1.40	35.6	thund'r st'm	J. B. McLaughlin
Moorhead, Minnesota	29.35	745.5	30.46	773.7	—25	—31.7	100	n.	32	14.3			10 n		n.	0.03	0.8	light snow	H. Bessant.
Morgantown, W. Virginia	29.21	741.9	30.27	768.8	40.0	4.4	82	se.	17	7.6			10 n			0.34	8.6	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.81	604.8	30.44	773.2	2.0	—16.7	100	nw.	40	17.9		0	0			0.16	4.1	clear	S. W. Beall.
Nashville, Tennessee	29.54	750.3	30.15	765.8	42.0	5.6	96	e.	6	2.7			10 ks		e.	0.02	0.5	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.39	771.9	30.51	774.9	17.5	— 8.1	75	ne.	13	5.8		10c;cs	0	sw		0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.50	774.7	30.55	776.0	20	— 6.7	70	n.	5	2.2		4 k	0			0	0	fair	J. G. Lynch.
New Orleans, Louisiana	29.95	760.7	30.01	762.2	65.3	18.5	92	s.	1	0.4			10 n			3.17	80.5	thund'r st'm	L. Dunne.
Newport, Rhode Island	30.45	773.4	30.50	774.7	20.4	— 6.4	66	n	9	4.0		3 c	1 s			0	0	fair	W. McGillivray.
New York, New York	30.32	770.1	30.50	774.7	25	— 3.9	80	ne.	16	7.2		0	0 s			0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	30.27	768.8	30.30	769.6	41	5.0	92	ne.	5	2.2			10n;fg		ne.	0.26	6.6	light rain	Wm. Davis.
North Platte, Nebraska	27.38	695.4	30.50	774.7	—22.4	—30.2	66	w.	10	4.5		0	0			0.16	4.1	clear	E. F. Brady.
Olympia, Washington T'y	30.02	777.7	30.66	778.7	10.0	—12.2	70	n.	1	0.4		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.21	741.9	30.18	774.2	—16.2	—26.8		nw.	14	6.3		0	0			0.30	7.6	clear	A. Pollak.
Ooglaamie, Alaska	30.58	776.7	30.60	777.2	—22.3	—30.2		wnw.	8	3.6		0	0			0	0	clear	P. H. Ray.
Oswego, New York	30.07	763.8	30.42	772.7	19.5	— 6.9	76	se.	6	2.7		10 cs	0	w.		0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.56	750.8	30.14	765.5	32.5	0.3	88	nw.	19	8.5			10 n			0.01	0.3	light rain	L. M. Pindell.
Pensacola, Florida	30.05	763.3	30.08	764.0	63.0	17.2	100	sw.	1	0.4			fg.			0.29	7.4	dense fog	M. McGauran.
Philadelphia, Pa	30.30	771.1	30.47	773.9	29.5	— 1.4	78	ne.	8	3.6			10n;fg		ne.	0.02	0.5	sleeting	T. T. Townsend.
Pike's Peak, Colorado	17.06	433.3	29.76	755.9	—23	—30.6	100	sw.			7		10 s		sw.	Inap.	Inap.	cloudy	H. Hall.
Ploche, Nevada	23.71	602.2	29.91	759.7	3.2	—16.0	79	nw.	5	2.2		0	3 ks			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.31	744.5	30.16	766 1	34.0	1.1	83	e.	5	2.2			10 n			0.27	6.9	light rain	W. A. Reid.
Poplar River, Montana	28.39	721.1	30.74	780.8				nw.			1	0				0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.04	763 0	30.05	763.3	63.9	17.7	97	s.	6	2.7			fg.			0	0	dense fog	H. B. Boyer.
Port Huron, Michigan	29.43	747.5	30.16	766.1	20.6	— 6.3	91	e.	9	4.0			10 n			0.03	0.8	light snow	W. O. Bailey.
Portland, Maine	30.50	774.7	30.55	776.0	18.0	— 7.8	53	nw.	6	2.7		1 c	hz.			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.03	778.0	30.70	779 8	10.0	—12.2	80	e.	10	4.5		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					49	9.4	100	ne.			4		10 n			1.09	27.7	heavy rain	F. S. Coburn.
Prescott, Arizona	24.46	621.3	29.84	757.9	31	— 0.6	92	sw.	11	4.9			10 n		sw.	0.02	0.5	light snow	W. H. Clendenon.
Provincetown, Mass	30.49	774 4	30.52	775.2	28	— 2.2	77	ne.	8	3.6		2 cs	3 s	w.	ne.	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.14	765.5	30.15	765.8	69.5	20.8	93	se.	9	4.0			10 s			0	0	cloudy	W. J. Evans.
Red Bluff, California	29.90	759.4	30.28	769.1	28	— 2.2	43	n.	25	11.2		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.68	753.9	30.40	772.1	20	— 6.7	84	e.	8	3.6		10 k	0	w.		Inap.	Inap.	cloudy	E. W. McGann
Roseburg, Oregon	29.90	759 4	30.47	773.0	18	— 7.8	74	e.	6	2.7		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	30.04	763.0	30.12	765.0	32.0	0.0	88	nw.	19	8.5		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.55	750.6	30.19	766.8	28.2	— 2.1	94	nw.	19	8.5			10 s			0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.93	760.2	29.97	761.2	33	0.6	100	e.	17	7.6			10 n			0.19	4.8	light rain	A. P. Leavitt.
St. Paul, Minnesota	29.05	737.9	30.00	762.0	22.0	— 5.6	80	calm	0	0			10 n			0.02	0.5	light snow	P. F. Lyons.
St. Vincent, Minnesota	29.56	750.8	30.54	775.7	—21	—29.4	100	n.	22	9.8			10 s			0.05	1.3	cloudy	C. B Dilley.
Salt Lake City, Utah	25.51	647.9	30.08	764.0	2	—16.7	49	n.	2	0.9		0	0			Inap.	Inap.	clear	J. Craig.
San Antonio, Texas	29.22	742.2	29.95	760.7	57.0	13.9	100	n.	9	4.0			10 n			0.01	0.3	light rain	T. J. Kenan.
San Diego, California	29.88	758.9	29.95	760.7	50.3	10.2	73	sw.	8	3.6			10 s		sw.	0.01	0.3	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.39	746.5	30.11	764.8	29.3	— 1.5	88	se	3	1.3			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.40	773.7	30.49	774.4	28.0	— 2.2	77	ne.	24	10.7		10 k	0	nw.		0	0	cloudy	B. A. Blundon.
San Francisco, California	30.04	763.0	30.12	765.0	39	3.9	73	nw.	12	5.4		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	22 90	581.6	29.95	760.7	20	— 6.7	80	se.	5	2.2			10 n			Inap.	Inap.	light snow	H. U. Jones.
Savannah, Georgia	30.12	765.0	30.22	767.6	56.5	13.6	92	nw.	16	7.2			10 n		nw.	3.23	82.0	light rain	H. W. Ford.
Shaw, Fort, Montana	26.70	678.2	30.56	776.2	—33	—36.1	100	w.	1	0.4		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.78	756.4	30.03	762.7	40	7.8	100	ne.	5	2.2			10 s			0.03	0.8	threatening	E. N. Meekins.
Sill, Fort, Indian Territory	29.02	737.1	30.35	770.9	1.9	—16.7	69	n.	30	13.4			10 s		n.	0	0	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.08	611.6	29.94	760.5	24.0	— 4.4	88	calm	0	0		0	0			0	0	clear	N. D. Lane.
Sitka, Alaska	30.39	771.9	30.46	773.7	37.6	3.1	82	e.	4	1.8			10 n		e.	0.22	5.6	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.72	754.9	30.22	767.6	23.5	— 4.7	73	nw.	12	5.4			10 s			0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.14	765.5	30.18	766.6	45	7.2	100	n.	10	4.5			10 n		ne.	0.72	18.3	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.58	725.9	30.72	780.3	—20	—28.9	53	calm	0	0		0	0			0	0	clear	H. Clifford.
Springfield, Illinois	29.43	747.5	30.10	766.1	32	0.0	78	w.	11	4.9			10 s		w.	Inap.	Inap.	cloudy	T. B. Jennings.
Springfield, Missouri	28.76	730.5	30.28	769.1	9	—12.8	87	nw.	12	5.4			10 s			0	0	cloudy	J. H. Bryce.
Starkville, Miss.	29.60	751.8	30.10	764.5	47	8.3	93	ne.	4	1.8			fg.			0.31	7.9	dense fog	C. Dill.
Stevenson, Fort, Dakota	28.65	727.7	30.71	780 0	—35	—37.2	100	nw.	13	5.8		0	0			0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.01	686.0	30.15	765.8	15	— 9.4	83	nw.	10	4.5		3 c	0	nw.		0	0	clear	A. J. Warren.
Thatcher's Island, Mass	30.50	774.7	30.50	776.2	23.3	— 4.8	73	n.	11	4.9		5 k	0	w.		0	0	fair	G. Liebmann.
Thomas, Camp, Arizona	27.08	687.8	29.92	760.0	37	2.8	92	calm			0		10 ks			0	0	cloudy	J. T. Fitzgerald.
Toledo, Ohio	29.36	745.7	30.10	764.5	28	— 2.2	77	se.	9	4.0			10 s			0.01	0.3	threatening	A. Buell.
Tucson, Arizona	27.41	696.2	29.91	759.7	40	4.4	82	se.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.52	775.2	30.91	785.1	— 1	—18.3	83	s.	3	1.3		0	0			0	0	clear	J. Daly.
Verde, Fort, Arizona					35	1.7	72	sw.			1		10 s		sw.	Inap.	Inap.	cloudy	D. Brooks.
Vicksburg, Mississippi	29.80	756.9	30.07	763.8	48.5	9.2	95	ne.	3	1.3			10s;fg			0.17	4.3	cloudy	James Kenealy.
Visalia, California	29.66	753.4	30.04	763.0	30.7	— 0.7	94	calm	0	0			fg.			0	0	dense fog	O. D. Stewart
Washakie, Fort, Wyoming	24.41	620.0	30.20	767.1	-22.7	—30.4		calm	0	0		0	7 s			Inap.	Inap.	fair	T. M. Ambler.
Washington, D. C.	30.29	769 4	30.41	772.4	29.5	— 1.4	82	ne.	4	1.8			10 n		ne.	0.07	1.8	light rain	B. M. Purssell.
West Las Animas, Colorado	26.20	655.5	30.34	770.6	—20	—28.9	100	se.	4	1.8		0	0			Inap	Inap.	clear	F. H. Brandenburg.
Williamsport, Pa.	29.79	756.7	30.42	772 7	21	— 6.1	84	calm	0	0		10 cs	0			0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.16	766.1	30.22	767.6	45	7.2	100	nw.	9	4.0			10 n			0.70	17.8	light rain	Samuel A. Haney.
Winnemucca, Nevada	25.63	651.0	30.17	766.3	—11	—23.9	74	ne.	3	1.3		0	0			0	0	clear	J. Grover.
Yankton, Dakota	29.00	738.1	30.48	774.2	—18	—27.8	100	nw.	11	4.9			10 s			0.24	0.1	cloudy	J. H. Attfield.
Yuma, Arizona	29.70	754.4	29.85	758.2	45.0	7.6	72	n.	2	0.9		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			50.5	10.3	84	ne.	1	0.4		1 c	0	w.		0.12	3.0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.14	765.5	30.15	765 8	09	20.6	83	n.	1	0.4		0	0			0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.07	763.8	30.07	763 8	77	25.0	82	e.			2	4 c	3 s	e.		0.010	0.3		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.42	747.3	29.98	761.5	78	25.6	84	calm			0	2 c	1 s	calm	calm	0	0	clear	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					75.2	24.0	92	ene.			3	2 ck	0			0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.29	769.4	30.35	770.9	38	3.3	89	s.			4		9 n			0.03	0.8	cloudy	W. J. Fisher.
St. Thomas, W. I.																			
York Factory H. B. A.	30.00	762.0	30.07	763.8	—29.0	—33.9		sw.	12	5.4		0	0			0	0	clear	Forsyth & Wood

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Amethyst, Port Stanley, Falkland Island†	29.79	756.7	51.5	10.8	72	sw.			1		2	w.						d. clouds.
H. M. S. Audacious, Hong-Kong, China	30.18	766.6	56	13.3	74	calm			0		1	ne.						blue sky.
H. M. S. Boadicea, S. 17° 03′ W. 4° 30′	30.08	764.0				se.			3		2					2	ese.	d. clouds.
H. M. S. Champion, Singapore, Malay Peninsula	29.87	758.7	80	26.7	95	ne.			2		6	ne.				1	ne.	d. clouds.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.39	771.9				e.			1									d. clouds.
H. M. S. Comus, N. 6° 35′, W. 92° 08′	29.96	761.0	76	24.4	92	ene.			1–2		8							d. clouds.
H. M. S. Constance, S. 7° 52, W. 32° 06′	29.97	761.2	80	26.7		e.			2		1	ese.				1	ese.	blue sky.
H. M. S Curacoa, Yokohama, Japan	29.89	759.2	38.5	3.6	56	n.			1–2		2	n.						blue sky.
H. M. Dock-Yard, Bermuda, W. I.	30.29	769.4	65	18.3	94	ssw.			1		10	ssw.						raining.
H. M. S. Dryad, N. 16° 40′ E. 96° 10′	29.95	760.7	77	25.0		sse.			1		5	ne.						d. clouds.
H. M. S. Eclipse, N. 14° 33′ E. 73° 40′	29.79	756.7	83	28.3		calm			0		1							blue sky.
H. M. S. Euryalus, Trincomalee, Ceylon	29.83	757.7	79	26.1	90	nne.			2		2							blue sky.
H. M. S. Espeigle, S. 33° 51′, E. 151° 14′	30.03	762.7	72	22.2	85	ne.			3		0							blue sky.
H. M. Fawn, S. 20° 39′, E. 0° 36′	30.05	763.3	71	21.7	87	se.			2		7					1	se.	d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.17	756.3	41	5.0	91	nnw.			1		9							d. clouds.
H. M. S. Fox Hound, Sarawak, Borneo	29.88	758.9	74.5	23.6		calm			0		4	n.						d clouds.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.07	763.8	65	18.3	52	var.			1		1							blue sky.
H. M. S Heroine, S. 20° 20′, W. 34° 56′	30.01	762.2	81	27.2	85	var.			2–3		4					sm'h		showery
H. M. S. Himalaya, N. 29° 58′, E. 32° 54′	30.02	762.5	66	18.9	94	sw.			1–2		2							blue sky.
H. M. S. Iron Duke, N. 16° 16′, E. 41° 12′	29.88	758.9	79	26.1	82	e.			2		4	ese.				1	e.	d. clouds.
H. M. S. Kingfisher, Callao Bay, Peru	30.01	762.2	66	18.9		se.			1		10							foggy.
H. M. S. Lark, S. 34° 50′, E. 174° 49′	30.28	769.1	69.3	20.7	87	n.			3		8					sm'h		d. clouds.
H. M. S. Magpie, N. 34° 41′ E. 135° 12′	29.99	761.7	37.3	2.9	66	w.			1–2		6							misty.
H. M. S. Monarch, Port Said, Egypt	29.86	758.4	64	17.8	73	calm			0		3							d. clouds.
H. M. S. Mutine, N. 9° 06′, W. 127° 45′	29.93	760.2	76.5	24.7		e.			4		8					5	ne.	squally.
H. M. S. Rocket, Valdivia, Chili	30.09	764.3	55	12.8	?	ssw.			2		5							showery.
H. M. S. Superb, N. 36° 50′, E. 28° 19′*	29.96	761.0	59	15.0	64	ene.			2		8	ssw.						showery.
H. M. S. Swiftsure, Bay of Payta, Peru	30.04	763.0	68	20.0	84	nw.			1		3					1	s.	d. clouds.
H. M. S. Sylvia, Borja Bay, Patagonia	29.29	744.0	49	9.4	86	nw.			4–7		10							raining.
H. M. S. Tourmaline, Bombay, India	29.87	758.7				wnw.			1		1	nne.						blue sky.
H. M. Tyne, N. 36° 09′, W. 6° 27′	30.24	768.1	55	12.8	100	e.			6		1					6	ene.	squally.
H. M. S. Woodlark, Bushire, Persia	29.98	761.5	65.5	18.7	68	nw.			4–6		3	nw.				3	nw.	squally.
PORTUGUESE NAVAL.																		
Tamega, Macao, China	30.22	767.7	56.3	13.5	77	nne.			2		2			0	0			blue sky
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla*	30.01	762.2	64	17.8	88	s.	3	1.3			10		s.	1.13	28.7			foggy.
Navy Yard, Portsmouth, N. H*	30.53	775.4	10	—12.2	?	nw.	4	1.8			0			0	0			hazy.
Naval Hospital, Yokohama, Japan*	29.70	754.4	33	0.6	61	n.			1		0			0	0			clear.
Adams, Sitka, Alaska†	30.46	773.7	36	2.2	90	calm			0		10							light rain.
Alaska, Mare Island, Cal	30.07	763.8	35	1.7	80	calm			0		0			0	0			clear.
Alliance, N. 26° 21′, W. 80° 42′	30.13	765.3	77	25.0	90	e.			2		5			0	0	sm'h		fair.
Brooklyn, Keel Point, Patagonia*	29.57	751.1	53	11.7	93	nw.	14	6.3			8		s.	0.02	0.5	sm'h		fair.
Colorado, New York, N. Y	30.55	776.0	25	— 3.9	100	ne.	8	3.6			10		calm	0	0			overcast.
Enterprise, N. 3° 25′, W. 43° 12′*	30.31	769.9	66	18.9	73	sw.			4		8		sw.			sm'h		cloudy
Essex, Callao, Peru	29.98	761.5	66	18.9	94	sse.			1		10							foggy.
Franklin, Norfolk, Va	30.29	769.4	42	5.6	91	ne.	6	2.7			10			0.07	1.8			foggy.
Galena, Montevideo, Uruguay*	29.84	757.9	69	20.6	84	nnw.			2		8		nw.			sm'h		fair.
Hartford, Callao, Peru*	29.93	760.2	66	18.9	100	sse.			0–1		0					sm'h	s.	foggy.
Independence, Mare Island, Cal	30.13	765.3	34	1.1	90	calm			0		0			0	0			clear.
Iroquois, Callao, Peru	30.05	763.3	66	18.9	94	sse.			1		10							foggy.
Jamestown, N. 41° 47′, W. 69° 16′	30.48	774 2	39	3.9	71	ne.			4		8	ne.						fair.
Juniata, Gibralter, Mediterranean*	30.33	770.4	58	14.4	81	wsw.			4		8	e.		0	0			cloudy.
Kearsarge, Port of Spain, Trinidad, W. I	30.05	763.3	78	25.6	90	calm			0		2	ene.						fair.
Lackawanna, N. 18° 05′ W. 146° 20′*	30.10	764.5	73	22.8	85	e.			4		8	e.				mod	ese.	cloudy.
Lancaster, Genoa, Italy	30.29	769.4	50	10.0	50	n.			6		0					mod	n.	squally.
Michigan, Erie, Pa	30.25	768.3	35	1.7	70	w.			2		10		sw.					cloudy.
Minnesota, New York, N. Y	30.49	774.4	24	— 4.4	100	ne.	6	2.7			8		nw.					cloudy.
Monocacy, Nagasaki, Japan	30.21	767.3	41	5.0	91	nnw.			2		10		nnw.					cloudy.
New Hampshire, Newport, R. I	30.50	774.7	25	— 3.3	100	nne.			4		5					sm'h		clear.?
Nipsic, Lisbon, Portugal	30.33	770.4	54	12.2	68	ene.			3		0							clear.
Onward, Callao, Peru†	30.10	764.5	65	18.3	94	se.			1		10		n.					foggy.
Palos, Tientsin, China*	30.36	771.1	18	— 7.8	100	ese.			1		0							clear.
Pensacola, S. 1° 55′, W. 81° 12′*	29.90	759.4	76	24.4	86	s.			3		2		ssw.	0	0	light	s.	clear.
Portsmouth, Boston, Mass	30.50	774.7	15	— 9.4	?	nnw.			2		2		n.					fair.
Powhatan, Boston, Mass	30.51	774.9	18	— 7.8	84	wnw.			2		2							fair.
Quinnebaug, Genoa, Italy	30.35	770.9	49	9.4	77	nne.			6		0					short		clear
Ranger, N. 24° 47′, W. 114° 42′*	30.01	762.2	60	15.6	70	wnw.			3		10		nw.	0	0	long	nw.	cloudy.
Richmond, Mouth Canton River, China*	30.18	766 6	58	14.4	57	calm			0		10			0	0			cloudy.
Saratoga, New York, N. Y	30.51	774.9	24	— 4.4	75	ne.			3–4		8		ne.	0	0			cloudy.
St. Louis, League Island, Pa	30.49	774.4	27	— 2.8	88	ne.			2		10		sw.	0.06	1.5			hailing.
Tennessee, Basse-Terre, St. Kitts, W. I*	30.15	765.8	79	26.1	78	ene.	14	6.3			8		ene.	0.3	8.	mod.	ene.	cloudy.
Vandalia, Samana Bay, San Domingo, W. I*	30.19	766.8	74	23.3	90	ene.			2		8		e.					fair.
Wabash, Boston, Mass	30.54	775.7	16	— 8.9	87	nw.	6	2.7			2		nw.	0	0			fair.
Wachusetts, Mare Island, Cal	30.08	764.0	32	0.0	100	calm			0		0							clear.
Wyandotte, Washington, D. C	30.41	772.4	34	1.1	89	ne.			2		10		ne.	0.8	20.			cloudy.
Yantic, Boca del Toro, U. S. C	30.05	763.3	73	22.8	100	wsw.			2		8							cloudy.
MERCHANT MARINE.																		
S. S. Grecian, Havre, France*	30.33	770.4	53	11.7	93	ssw.			1		10		sw.	5 h'r	5 h'r			cloudy.
S. S. Nova Scotian, N. 53° 43′, W. 27° 33′	29.59	751.6	40	4.4		sw.			2		10		sse.			mod	wsw.	cloudy.
S. S. Scandinavian, N. 51° 35′, W. 34° 08′	29.34	745.2	38	3.3		ese.			7		10		sw.	sleet	sleet	high	ese.	rain & snow
S. S. British Crown, N. 43° 26′, W. 43° 16′†	29.27	743 4	43	6.1		wnw.			10		7		wnw.	hail	hail	h'vy	wnw.	hailing
S. S. British Prince, N. 47° 31′, W. 45° 33′†	29.08	738.6	32	0.0		wnw.			9		10		nw.	snow	snow	hv'y	nw.	snowing.
S. S. Indiana, N. 48° 54′, W. 32° 48′			45	7.2	92	s.			8		10		sw.	rain	rain	h'vy	s.	squally.
S. S. Lord Clive, Philadelphia, Pa	30.52	775.2				ne.			4		10		ne.	rain	rain			snowing.
S. S. Ohio, Philadelphia, Pa			27	— 2.8	88	nnw.			4		10							snow & hail
S. S. Pennsylvania, N. 41° 06′, W. 64° 24′	30.38	771.6	46	7.8	92	nw.			4		10		nw.	0	0	sm'h	e.	cloudy.
S. S. Jason, N. 49° 19′, W. 8° 09′			51.8	11.0		nne.			3		8 n					3	ne.	gloomy.
S. S. Stella, N. 42° 53′ W. 49° 22′	29.67	753.6	28	— 2.2		wnw.			6		8		wnw.	7 h'r	7 h'r	7	wnw.	squally.
S. S. Anchoria, N. 55° 24′, W. 14° 25′†	29.60	751.8				w.			6		2		w.	0	0	h'vy	w.	clear.
S. S. Bolivia, Glasgow, Scotland	29.98	761.5	45	7.2	84	se.			4		10			14 h'r	14 h'r			overcast.
S. S. Dorian, Valencia, Spain*	30.22	767.6				var.					2			0	0			clear.
S. S. Ailsa, N. 31° 13′ W. 74° 00′†	30.32	770 1	72	22.2	100	s.			5		8		sw.	6 h'r	6 h'r	mod.	s.	cloudy.
S. S. Ambrose, Amazon River, Brazil†	30.08	774 0	79	26.1		var.			9					12 h'r	12 h'r			
S. S. Auckland, S. 46° 07′, W. 42° 16′	29.95	760.7	54	12.2	80	nw.			2		6					h'vy	ne.	blue sky.
S. S. Caldew, S. 28° 13′, W. 48° 36′	29.76	755.9	79	26.1	91	ene.			8		10							overcast
S. S. City of Agra, S. 33° 40′, W. 32° 20′	30.04	763.0	71.6	22.0	75	wnw.			4		9							d. clouds.
S. S. Gordon Castle, N. 43° 55′, W. 8° 59′	30.24	768.1	66.5	19.2	87	sw.			1–2		3					high	nw.	d. clouds.
S. S. Scotia, Suez Roads, Egypt	29.92	760.0	67	19.4	64	ssw.			2		2							blue sky
S. S. Mexico, N. 23° 06′, W. 108° 04′†	29.99	761.7	70	21.1	66	calm			0		0							
S. S. Bothnia, N. 48° 28′, W. 34° 28′	29.17	740.9	48	8.9	92	wsw.			6–8		9		w.	half	half	r'gh	w.	squally.
S. S. Parthia, N 41° 40′, W. 59° 37′	30.44	773.2	35	1.7	89	nw.			6		9		wnw.	3 h'r	3 h'r	long	wnw.	rain & hail
S. S. Pavonia, N. 40° 54′, W. 62° 22	30.37	771.4	41	5.0	82	nnw.			6		6		nnw.	o	o	slt	nnw.	fair.
S. S. Rhiwindda, N. 45° 07′, W. 48° 55′*†	29.60	751.8	29	— 1.7		w.			7		7		wnw.	snow	sno w	r'gh	w.	stormy.
S. S. France, N. 47° 52′, W. 38° 15′ †	29.07	738.4	44.6	7.0		ssw.			9		8		sw.			h'vy	ssw.	snowing.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																		
S. S. Labradore, N. 49° 27′, W. 12° 23′			51.8	11.0		sw.			6		7		w.	rain	rain	h'vy	w.	
S. S. Perire, N. 49° 12′, W. 14° 00′	29.84	757.8				nw.			6		10		nw.	rain	rain	h'vy	nw.	rainy.
S. S. Ville de Marseilles, N. 25° 32′, W. 49° 20′*†	30.30	769 6	77	25.0	82	ne.			3		0			0	0	sm'h	ne.	clear.
S. S. Abyssinia, N. 42° 00′, W. 62° 39′	30.46	773.7	39	3.9		n.			4		6		n.	0	0	cross		cloudy.
S. S. Wisconsin, N. 40° 00′, W. 67° 30′			31	— 0.6		ne.			4		2		n	0	0	sm'h		clear.
S. S. Bohemia, Hamburg, Germany*†	30.45	773.4				sw.			3		9			4 h'r	4 h'r			foggy.
S. S. Frisia, N. 45° 25′ W. 38° 10′	28.97	735.8	34	1.1		sw.			6		9		ssw.	snow	snow	h'vy	sw.	cloudy.
S. S. Silesia, Hamburg, Germany†	30.39	771.9	38.0	3.3		wsw.			4		4		w.					foggy.
S. S. Vandalia, Hamburg, Germany	30.44	773.2	36.9	2.7		wsw.			3		10		sw.					foggy.
S. S. Wieland, N. 40° 35′, W. 69° 43′	30.52	774.9				ene.			2		10		ene.	0	0	mod.	ene.	cloudy.
S. S. Archimedes, Rio de Janeiro, Brazil	29.92	760.0				calm			0					0	0			clear.
S. S. Hevelius, N. 18° 30′, W. 25° —††	30.16	766.1	71	21.7		ene.			5		6?		ssw.	0	0	sm'h		cloudy.†
S. S. Ptolemy, N 0° 45′, W. 30° 01′	29.99	761.7	80	26.7	82	se.			1	ck	4 8	sse.	s.	0.86	21.8	con.	w.	foggy.
S. S. Sirius, N. 32° 30′, W. 70° 20′ *	30.24	768.1				ne.			6		10		ne.	8 h'r	8 h'r	mod.	ne.	rainy.
S. S. Bulgarian, N. 50° 37′, W. 27° 57′*	29.78	756.4				ssw.			6		8		var.	snow	snow	mod.	nw.	overcast.
S. S. Virginian, N. 50° 38′, W. 24° 28′ *	29.83	757.7	44	6.7		wsw.			6		— 2		w.	3 h'r	3 h'r	mod.	w.	fair.
S. S. Colorado, N. 26° 51′, W. 88° 17†	30.05	763.3	72	22.2		s.			4		1		s.	0	0	small	sse.	clear.
S. S. Rio Grande, Matanzas, Fla†	30.13	765.3	76	24.4		se.			1		6		se.	0	0	sm'h		foggy.
S. S. Archimede, Palermo, Sicily†	30.06	763.5	36	2.2	63	ne.			2		6		nne.	8 h'r	8 h'r			cloudy.
S. S. Alleghany, Norfolk, Va†	30.36	771.1	42	5.6		ne.			4		10			light	light			
S. S. Brooklyn, N. 51° 06′, W. 21° 21′			43	6.1		sw.			3				w.	0	0	long	w.	fair.
S. S. Chalmette, New York, N. Y†	30.49	774.4	35	1.7		ene.			5		10			0	0			overcast.
S. S. New York, N 34° 30′, W 76° 10′†	30.19	766.8	50	10.0		n.			3		10		nw.	10 h'r	10 h'r	mod.	e.	cloudy.
S. S. Denmark, N. 48° 10′, W. 25° 35′ †	29.89	759.2	47	8.3		s.			4		2		sw.	0	0	mod.	nw.	clear.
S. S. Egypt, Queenstown, Ireland *†	29.87	758.7				sw.			6		10		wsw.	6 h'r	6 h'r			cloudy.
S. S. Erin, Liverpool, Eng			43	6.1		sse.			6		8		sse.	0	0			
S. S. Helvetia, Liverpool, Eng	30.19	766.8	43	6.1		n.			1		5		nw.	0	0			fine.
S. S. Holland, N. 47° 34′, W. 33 ° 47′	28.96	735.6	45	7.2		s.			9		8		sw.	hail	hail	h'vy	sw.	raining.
S. S. The Queen, N. 45° 54′, W. 38° 08′ *†	29.00	736 6	45	7.2		w.			7		8		w.	3 h'r	3 h'r	h'vy	w.	squally.
S. S. Santiago, N. 21° 36′, W. 74° 15′	30.20	767.1	76	24.4	95	e.			4		3		ene.	0	0	sm'h		fine.
S. S. City of Merida, Vera Cruz, Mexico †	29.91	759.7	73.4	23.0		se.			2		0			0	0	mod.	ne.	fine.
S. S. City of Washington, Havana, Cuba, W.I†	30.21	767.3	78	25.6		e. to s.			2		2		ene.	0	0	sm'h		fine.
S. S. Alpin, N. 34° 50′, W. 75° 45′	30.19	766.8	73	22.8		e.			4								wnw.	rainy.
S. S. America, N. 47° 35′, W. 35° 28′ *	28.93	734.8	47.5	8.6	85	wsw.			8–9		7		wsw.	hail	hail	h'vy	w.	squally.
S. S. Braunschweig, Buenos Ayres, Argentine Rep	29.92	760.0	67.5	19.7	82	n.			4		2		n.	4 h'r	4 h'r	light		clear.
S. S. Donau, N. 46° 21′, W 36° 34′						sw.			6–7		8		wsw.	11 h'r	11 h'r	h'vy	var.	cloudy.
S. S. Hohenzollern, N. 43° 45′, W. 10° 00′	30.29	769.4				ssw.			3		8		ssw.			high	nw.	clear.†
S. S. Main, N. 44° 04′, W. 47° 27′	29.55	750.6	32	0.0		wnw.			8		10		nw.	12 h'r	12 h'r	cross	nw.	halling.
S. S. Salier, S. 50° 30′, W. 20° 53′	29.89	759.2	47	8.3		w.			5		5		w.	5 h'r	5 h'r	h'vy	w.	fair.
S. S. Strassburg, N. 22° 07′, W. 22° 23′	30.09	764.3	86.0	30.0	47	nne.			3		8		nne.	0	0	sm'h	nne.	cloudy.
S. S. Arabic, N. 37° 34′, W 125° 15 *†	30.25	768.3	46	7.8	62	nw.			6		5		nw.	0	0	h'vy	nnw.	squally.
S. S. Belgic, N. 34° 52′, E. 150° 17′ *†	29.35	745.5	54	12.2	61	wnw.			6		5		w.	2 h'r	2 h'r	h'vy	sw.	fair.
S. S. Coptic, N. 41° 57′, E. 179° 59′	29.30	741.2	41.0	5.0	91	se.			6		10		se.	4 h'r	4 h'r	mod.	var.	raining.
S. S. Gaelic, N. 30° 14′, E 128° 03′	30.13	765.3	50	10.0	100	nnw.			6		6?		nw.	3 h'r	3 h'r		nnw.	cloudy*
S. S. Oceanic, San Francisco, Cal †	30.21	767.3	40	4.4	56	ene.			5									clear.
S. S. City of Augusta, Savannah, Ga †	30.17	766.3				sse.			4		10			rain	rain			rainy.
S. S. Willamette, Seattle, Wash. Ter†	30.63	778.0	12	—11.1	100	e.			1		4?		e.	0	0			cloudy?
S. S. Columbia, N. 45° 02′, W. 124° 05′†	30.51	774.9	21	—6.1	70	nne.			5		0					light	nnw.	clear.
S. S. Oregon, San Francisco, Cal†	30.07	763.8	39	3.9	82	nne.			4		0							clear.
S. S. Ancon, San Pedro Bay, Cal †	29.85	758.2	48	8.9	85	calm			0		5		n.					fair.
S. S. City of Chester, Humboldt Bar, Cal*†	30.22	767.6	40	4.4	82	nw.			7		0					long	sw.	clear.
S. S. Dakota, Seattle, Wash. Ter			14	—10.0	100	n.			4		5?		n.	snow	snow	sm'h		clear?
S. S. G. W. Elder, San Francisco, Cal †	30.12	765.0	39	3.9	73	nw.			4		0			0	0			clear.
S. S. Queen of the Pacific, N. 37° 55′, W. 122° 36′†	30.12	765.0				n.			2		0						n.	
S. S. State of California, Portland, Oregon			16	—8.9	100	calm			0		0			0	0			clear.
S. S. Victoria, San Francisco, Cal*†	30.10	764.5	39	3.9		nnw.			3		2		nnw.					fair.
S. S. Australia, N. 32° 27′, W. 135° 31′ *†	30.20	767.1	59	15.0	65	s.			2		10			0	0	sm'h		hazy.
S. S. City of New York, N. 30° 32′, W 143° 33′†	30.21	767.3	72	22.2	70	se.			5		10		se.	3 h'r	3 h'r	mod.	se	cloudy.
S. S. City of Pekin, N. 30° 04′, W. 160° 52′ †	29.76	755.9	62	16.7	72	wsw.			6		10		wsw.			r'gh	wsw.	cloudy.
S. S. City of Rio de Janeiro, N. 22° 55′, W. 110° 30′			64	17.8	62	nnw.			2		4		nw.	0	0	light	nnw.	fine.
S. S. City of Sydney, Sydney, N. S. W†	30.19	766.8	66	18.9	79	sw.			4		8		ssw.	¼ h'r	¼ h'r	sm'h		cloudy.
S. S. City of Tokei, N. 26° 46′, E. 122° 44′†	30.32	770.1	54	12.2	74	ne.			2		5?		n.	0	0	h'vy	ne.	clear.†
S. S. Colima, N. 32° 53′ W. 117° 43′†	29.94	760.5	53	11.7	80	w.			6		10		wnw.	0	0	r'gh	wnw.	gloomy.
S. S. Colon, Aspinwall, Panama†	29.94	760.5	80	26.7		nne.			3		1		ne.	0	0	sm'h	nnw.	clear.
S. S. Grenada, N. 7° 30′, W. 82° 36′†	29.91	759.7	82	27.8	83	e.			2		8		e.	1 h'r	1 h'r	sm'h	s.	clear.
S. S. San José, N. 16° 02′ W. 98° 30′*†	29.98	761.5				wnw.			2		2 k		nnw.	0	0	mod.	sse.	
S. S. Zealandia, Sydney, N. S. W*	30.00	762.0	74	23.3	90	n.			2		1		s.					fine.
S. S. Muriel, Dominica, W. I*	30.14	765.5	80	26.7		e.			4		0			0	0	sm'h		clear
S. S. Caracas, La Guayra, Venezuela †	30.12	765.0	78	25.6	82	ne.			1		2		ene.	0	0	mod.	nne.	fine.
S. S. Claudius, Colon, U. S. C.†	30.09	764.3	81.2	27.3	83	n.			2		6		n.	0	0	long	n.	fair.
S. S. Belgenland, N. 48° 58′, W. 29° 23′ †	29.57	751.1	46	7.8	84	sse.			8		9		w.	2 h'r	2 h'r	h'vy	var.	squally.
S. S. Nederland, N. 48° 35′ W. 39° 35′†	29.02	737.1	42	5.6	91	sw.			6		10		sw.	rain	rain	h'vy	sw.	squally.
S. S. Pennland, N. 40° 52′, W. 66° 16′	30.33	770.4	32	0.0	90	sw.			5		8		sw.	0	0	sm'h		cloudy.
S. S. Rhynland, Jersey City, N. J †	30.47	773.9	27	—2.8	88	ene.			5		4		ne.					hazy.
S. S. Waesland, Antwerp, Belgium	30.40	772.1	44	6.7		sw.			4		10		sw.	hv'y	h'vy			foggy.
S. S. Leerdam, N. 50° 13′, W. 23° 56′*	29.83	757.7	47.6	8.7	74	w.			6		4		w.	4 h'r	4 h'r	long	w.	fair.
S. S. Maas, Rotterdam, Holland	30.34	770.6	41.9	5.5		w.			3		9		s.	1 h'r	1 h'r			rainy.
S. S. W. A. Scholten, N. 40° 50′, W. 67° 35′			36.0	2.2	70	ene.			4		4		ene.	0	0	sm'h	ne.	
S. S. State of Florida, New York, N. Y	30.40	772.1	30	—1.1		se.			4		8			0	0			overcast.
S. S. Piantyn, N. 50° 05′, W. 4° 01′									4		3		wsw.	2½ h'r	2½ h'r	sm'h	sw.	hazy.
S. S. Adriatic, N. 50° 33′ W. 15° 50′†	29.99	761.7	45	7.2		w.			4		10		w.	5 h'r	5 h'r	mod.	w.	raining.
S. S. Baltic, N. 51° 13′, W. 21° 33′*	29.79	756.7	43	6.1	67	w.			6		4		w.	8 h'r	8 h'r	r'gh	w.	d. clouds.
S. S. Lepanto, N. 47° 22′, W. 25° 38′*	29.99	761.7	42	5.6		ssw.			6		5		sw.	0	0	slt	e.	fair.
S. S. Marengo, N. 50° 52′, W. 27° 00′*	29.70	754.4				s.			9		8		s.	6 h'r	6 h'r	h'vy	s.	squally.
S. S. Otranto, N. 51° 43′, W. 32° 23′†	29.52	749.8	44	6.7		se.			6		10		se.	snow	snow	sm'h		light rain.
S. S. Romano, off Fire Island, N. Y			28	—2.2		ene.			3		9		nne.	snow	snow	sm'h		cloudy.
S. S. Salerno, New York, N. Y	30.50	774.7	26	—3.3		ne.			4		10		ne.	3 h'r	3 h'r			cloudy.
S. S. Catherine Whiting, Shinnecock, N. Y†	30.47	773.9				ne.			6		8		ne.	0	0	light	ene.	
S. S. Norman, N. 42° 23′, W. 71° 05′						nw.			2				nw.	0	0			clear.
S. S. Saxon, N. 39° 35′, W. 74° 05′†	30.35	770.9	41	5.0		e.			3		10		ese.					rain & snow
MISCELLANEOUS.																		raining.
Schr. Abbie H. Gheen, Spring Wood Mills, S. C†	30.23	767.8	45	7.2		calm			0									fair.
Bk. Adelaide, S 23° 08′, W. 41° 32′*†	30.03	762.7	77	25.0		nne.			4		5		nne.	2 h'r	2 h'r	cross	var.	
Bk. Aleira, N. 33° 26′, W 70° 20′	30.32	770.1				e.			4		10		var.	12 h'r	12 h'r	mod.	var.	
Bk. Alpha, Demerara, British Guiana, S. A*†	29.98	761.5	80	20.7		ene.			4		5			1 h'r	1 h'r			fair.
Schr. Anna A. Holton, Tampico Bar, Mexico†	29.99	761.7	74	23.3		wsw.			3		2		sw.	0	0	sm'h		clear.
Bk. Anna Thormann, S. 17° 27′, W. 6° 59′	30.10	764.5	73.9	23.2	74	ese.			4		10 k		ese.	0	0	mod.	se.	cloudy.
S. S. Antonio Lopez, Barcelona, Spain	30.30	769.6	54	12.2	67	calm			0		3			0	0			clear.
Bg. Arthur, S. 23° 03′, W. 36° 24′*†	30.12	765.0				nne.			4		2		nne.	0	0	mod.	var.	
Schr. A. R. Lewis, N. 29° 50′, W. 65° 25′			72	22.2		ssw.			1		2		e.	0	0	long	ne.	clear.
Bk. B. F. Watson, Hong Kong, China†	30.27	768.8	66	18.9		ne.			4		3		ne.	0	0			d. clouds.
Bg. Belle of the Bay, Galveston, Texas †	29.93	760.0				ese.			2		0?							drizzling.†
S. S. Benledi, off Navasink, N. J *	30.38	771.6	48	8.9	70	ne.			4–5				w.	2 h'r	2 h'r	mod.	nne.	heavy snow
Bkt. Bonny Doon, N. 29° 50′, W. 22° 30′*†	29.92	760.0				sw.			3		2		sw.	driz	driz	long	w.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec.	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Bk. Bremen, N. 30° 56′, W. 25° 30′*	29.97	761.2				w.			6		4		w.	rain	rain	mod	w.	fair.
Bk. Champion, Philadelphia, Pa			40	4.4		n.			3		2		sSw.	0	0			
Bk. Commerce, N. 38° 25′, W. 16° 11′†	30.13	765.3	59	15.0		se.			3		2		se.	0	0	long	nw.	fine.
S. S. D. J. Foley, N. 9° 24′, W. 79° 54′*†	29.94	760.5	81	27.2	87	ene.			2		2		e.	0	0	mod.	ne.	clear.
S. E. B. Sutton, N. 36° 15′, W. 46° 00′†	30.11	764.8	63	17.2	97	w.			6		7		w.	0	0	r'gh	sw.	misty.
Bk. E. D. Bigelow N. 41° 16′, W. 25° 12′*†	29.85	758.2				ne.			3		8		ne.	0	0	short	ne.	cloudy.
Schr. Edith R. Seward, Wilmington, N. C†	30.15	765.8	44	6.7		calm			0				n.	10 h'r	10 h'r			rainy.
Bk. Edmund Phinney, S. 21° 53′, W. 35° 45′ †	30.10	764.5				ene			3		2			0	0	mod.	ene.	clear.
S. E. J. Spicer, N. 51° 07′, W. 8° 40′	30.05	763.3	55	12.8	100	sw.			6		10		sw.	8 h'r	8 h'r	mod.	wsw.	cloudy.
Bk. E. L. Pettingill, S. 46° 53′, W. 109° 14′ *†	30.20	767.1	62	16.7		nnw.			7		8		nnw.	0	0	mod.	wnw.	
Bk. Essex, Majambo, Madagascar*†	29.78	756.4	78	25.6		var.								sh'rs	sh'rs		nw.	squally.
Schr. F. E. McDonald, Jacksonville, Florida†	30.11	764.8				calm			6		fg.			0	0			
U.S. F. C. S. S. Fish Hawk, Washington, D. C †	30.35	770.9	32	0.0		nne.			2		10		calm					cloudy.
S. S. Foscolia, West Hartlepool, Eng						s.			2		0			0	0			hazy.
Bk. Freya, Matanzas, Cuba, W. I						calm			0					0	0			hazy.
S. Geo. Setson, S. 14° —′, W. 36° —′ *†	30.00	762.0	80	26.7	87	se.			2		7		se.	0	0	slt	sse.	cloudy.
Bg. Gipsey Queen, N. 25° 24′ W. 66° 28′			76	24.4		e.			6		8		e.	0	0	short	se.	fair.
S. Grecian, N. 36° 05′, W. 52° 30′†	30.12	765.0	63	17.2	78	nw.			6		6		nw.	1 h'r	1 h'r	mod	var.	fair.
Bk. Grey Eagle, S. 21° 03′, W. 39° 30′*†	29.90	759.4				ne.			3		5			0	0			fine.
Bk. Gronsvaer, Auckland, N. Z	30.24	768.1	71.0	21.7		se.			4		5?		se.	0	0			clear.?
Bk. Hattie G. McFarland, Demerara, Brit. Guiana†*	30.10	764.5	78	25.6		e.			6		8		e.	3 h'r	3 h'r			showery
Schr Hattie Weston, St. Pierre, W I*†.	30.17	766.3	78	25.6		ene.			2		10		ene.	3 h'r	3 h'r	sm'h	nw.	raining.
S. Hedwig, N. 51° 29′, E. 1° 59′	30.34	770.6	46.8	8.2		s.			4		8		s.	rain	rain	1	s.	foggy.
Bk. Heinrich & Tonio, N. 35° 43′, W. 24° 05′			61	16.1		ssw.			3		5?		sw.	7 h'r	7 h'r	mod.	w.	cloudy ?
Schr. Isabel Alberto, New York, N. Y †	30.50	774.7				ene.			3		10		e.	0	0			cloudy.
Schr. James Slater, N. 29° 21′, W. 53° 51′*†	30.35	770.9	72	22.2		wsw.			2		0			0	0	light	ene.	
Bk. Johanne, N. 21° 25′, W. 28° 22′ *†	30.07	763.8	70	21.1		n.			2		2		var.	1 h'r	1 h'r	mod.	ne.	fine.
Schr. John L. Thomas, Blanquilla, W. I *†	30.14	765.5				ene.			2		1		e.	1 h'r	1 h'r			clear.
Bkt. Josephine, S. 29° 24′, W. 23° 39′†	30.16	766.1	81	27.2	55	nnw.			3		0			0	0	sm'h		clear.
S. S. J. W. Wilson, Sabine Light, La*†	29.91	759.7	62	16.7		ne.			3		10			3 h'r	3 h'r			overcast.
Light House Tender Laurel, Tampa Bay, Fla†	30.14	765.5	67	19.4		s.			1		10			0	0			foggy.
Bg. Lilian, N. 8° 15′, W. 58° 50′†	30.11	764.8	78	25.6		ne.			4		9		var.	½ h'r	½ h'r	r'gh	var.	squally.
Bk. Louise Adelaide, N. 24° 20′, W. 88° 15′						sse.			3		0			0	0	short	se.	fine.
S. S. Malabar, N. 36° 04′, W. 20° 47′*†	29.90	759.4				se.			3				s.	0	0	str'g	nw.	cloudy.
Bg. Mary A. Troop, N. 40° 44′, W. 47° 10′						nw.			9		5		nw.	24 h'r	24 h'r	h'vy	wnw.	threatening.
Bk. Matilda C. Smith, N. 38° 05′, W. 61° 06′						n.			5		5		n.	0	0	r'gh	nw.	fine.
Schr. Minnie A. Bonsall, Mayport, Fla †	30.22	767.6	68	20.0		calm			0		fg.							foggy.
S. M. P. Grace, S. 28° 51′, W. 23° 32′ *	30.11	764.8	81	27.2		n.			1		2		nne.	0	0	sm'h	ne.	
Bg. Myrtle, Barbadoes, W. I *†	29.95	760.7				ene.			4		1		ene.	4 h'r	4 h'r			fair.
Bkt. Norena, Matanzas, Cuba, W. I *†	30.21	767.3				se.			3		1		se.	0	0	sm'h		fine.
Bg. O. C. Clary, N. 29° 30′, W. 75° 12′ *†	30.15	765.8	73	22.8	95	s.			2		4		ssw.			sm'h	s.	fair.
Schr. Ocean Traveler, N. 31° 20′ W. 65° 56′†	30.30	769.6				sw.			3		3					sm'h		clear.
Bk. Ottawa, Alicante Harbor, Spain*	30.31	769.9	56	13.3		calm			0		0			0	0			clear.
S. Paramita, San Francisco, Cal†	30.21	767.3	36	2.2		n.			5					0	0			clear.
Schr. Pearl Nelson, Barbadoes, W. I*†	30.10	764.5							6		2			0	0			
S. S. Peconic, N. 42° 06′, W. 46° 32′*†	29.40	746.7	42	5.6		w.			9				w.	4 h'r	4 h'r	h'vy	var.	hailing.
S. S. Raleigh, Matanzas, Cuba, W. I *	30.10	764.5	78	25.6		calm			0		0			0	0			fine.
Bk. Reindeer, Martinique, W. I*	30.13	765.3				ene.								0	0			
S. Rudolph, N. 42° 50′ W. 21° 41′			52.2	11.2		ene.			3		10		var.	5 h'r	5 h'r	cross	var.	cloudy.
Schr. S. B. Hubbard, Jacksonville, Fla*†	30.25	768.3	65	18.3		calm			0		fg.			6 h'r	6 h'r			dense fog.
Bk. Scud, Bocas, Trinidad, W. I. *†	30.10	764.5	81	27.2		e.			2		1			0	0			
Bk. Southern Belle, N. 23° 13′, W. 48° 40′*†	30.20	767.1	78	25.6		e.			3					0	0	sm'h		clear.
S Sovereign of the Seas, S. 6° 09′, W. 119° 58′*†	30.03	762.7	75	23.9	90	ese.			2		7		ese.	2 h'r	2 h'r	r'gh	se.	fair.
Bk. Sunbeam, Lisbon, Portugal *†	30.25	768.3	54	12.2	74	nne.			6		0			0	0			clear.
S. S. Sunbeam, N. 44° 45′, W. 40° 14′	29.17	739.4	49	9.4	71	wsw.			10		10		w.	6 h'r	6 h'r	7–8	var.	showery.
S. Titan, N. 16° 33′, W. 34° 52′*†	30.15	765.8	74	23.3	90	e.			5		5		e.	1 h'r	1 h'r	mod	e.	fair.
Bk. Wandering Jew, Montevideo, Urnguay †	29.90	759.4	74	23.3		n			3		7		n.	0	0			fair.
Bk. Winifred, N. 31° 38′, W. 51° 20′ *†	30.30	769.6				var.							wnw.	0	0		wnw.	fair.
Schr. Wm. Wiler, N. 28° 58′, W. 66° 01′†	30.35	770.9				s.			1		5		sse	0	0	mod.	se.	fine.
Bk. Xenia, N. 18° 53′, W. 34° 10′ *†	30.20	767.1	74	23.3		ne.			6		3		ne.	1 h'r	1 h'r	mod	ne.	fair.

International Chart I. January 19, 1883. Isobars and Isotherms.



By Order of the Secretary of War.
W. B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 20, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours	.....	.....	30.33	770.3	59.0	15.0	83	e.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Malaterre.
Algiers	.....	.....	30.33	770.3	55.4	13.0	70	calm	.....	.....	0	.....	10	.....	.....	0.260	6.6	covered.....	Thève.
La Calle	.....	.....	30.20	767.1	56.5	13.6	82	sw.	.....	.....	3	.....	4	.....	.....	0.335	8.5	cloudy	Fonfrède.
Tunis	.....	.....	30.17	766.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.32	770.1	53.2	11.8	58	nne.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Pérès.
Tebessa	.....	.....	30.12	765.0	45.6	7.2	77	n.	.....	.....	1	.....	4	.....	.....	inap.	inap.	cloudy..	Dognon.
Gertville	.....	.....	.....	.....	43.5	6.4	89	nw.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair....	Lonchamp.
Laghouat	.....	.....	30.30	769.5	46.4	8.0	81	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Abraham.
Biskra	.....	.....	30.23	767.9	63.7	17.6	32	nw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy.....	Malau.
Australian.																			
Melbourne, Victoria	29.84	757.9	29.93	760.2	62.1	16.7	76	sse.	6	2.7	.....	.....	10	.....	.....	0.02	0.5	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	30.00	762.0	30.60	777.1	28.0	— 2.2	88	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.55	750.5	30.35	771.0	34.9	1.6	66	sw.	1.8	0.8	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.56	750.7	30.50	774.6	28.0	— 2.2	87	calm	.....	.....	0	.....	10	.....	.....	0	0	foggy.....	Julius Mikolik.
Gratz	29.19	741.5	30.54	775.6	25.9	— 3.4	71	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.98	736.1	30.51	775.0	28.8	— 1.8	74	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	29.00	736.6	30.45	773.3	25.3	— 3.7	91	ese.	.....	.....	1	.....	10	.....	.....	0	0	gloomy.....	The Staff.
Lemberg	29.34	745.1	30.38	771.7	32.7	0.4	68	w.	.....	.....	1	.....	1	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.93	683.9	30.38	771.6	42.1	5.6	55	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.26	768.5	30.37	771.5	47.8	8.8	25	ene.	.....	.....	3	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	30.04	762.9	30.50	774.8	21.9	— 5.6	100	sw.	.....	.....	1	.....	10	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	30.20	767.0	30.50	774.7	25.5	— 3.6	91	s.	.....	.....	1	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.30	769.7	30.40	772.2	45.3	7.4	17	se.	.....	.....	3	.....	0	.....	.....	0	0	.....	Royal Academy.
Vienna	29.72	754.8	30.49	774.5	24.3	— 4.3	93	calm	.....	.....	0	.....	7	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.81	757.2	29.91	759.7	45.0	7.2	86	w.	31	13.9	.....	.....	1	.....	.....	0	0	squally.....	W. Boswell
Armagh, Observatory	29.95	760 7	30.20	767.1	41.4	5.2	76	ssw.	9	4.0	.....	.....	0	.....	.....	.....	.....	blue sky.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.22	767.6	44.8	7.1	71	wsw.	11	4.9	.....	.....	1	.....	.....	.....	.....	blue sky.....	John Hartnup.
Bolton, Sharples	29.67	753 6	30.22	767.6	41.0	5.0	83	sw.	.....	.....	.....	.....	8	.....	.....	.....	.....	misty.....	Thomas Mackereth.
Bradford, Yorkshire	29.80	756.9	30.20	767.1	43.5	6.3	76	w.	.....	.....	1	.....	6	.....	.....	0.01	0.3	d. clouds.....	McLandsborough & Preston.
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	80.0	26.7	69	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds.....	Corpl. J. Surgenor, A. H C.
Cardington	.....	.....	.....	.....	49.0	9.4	67	nw.	.....	.....	0.6	.....	1	.....	.....	.....	.....	blue sky.....	John McLaren.
Chatham, School M. E	30.14	765.5	30.27	768.8	48.9	9.4	93	calm	.....	.....	0	.....	10	.....	.....	blank	blank	misty.....	Corpl. G. A. Pickles.
Falmouth, Observatory	30.02	762.5	30.25	768.3	52.3	11.3	89	s.	.....	.....	1	.....	9	.....	.....	.....	.....	d. clouds.....	The Staff.
Fort Napier, Natal	27.54	699.5	29.76	755.9	72.2	22.3	75	e	.....	.....	1	.....	9	.....	.....	.....	.....	overcast.....	Corpl. F. Milner, A. H. C.
Galway	30.01	762 2	30.05	763.3	40	4.4	91	s	.....	.....	2	.....	2	.....	.....	0.29	7.4	blue sky.....	Wm. Ryan.
Gibraltar, Mediterranean	30.20	767.1	30.20	768.6	50.0	13.3	93	.....	.....	.....	.....	.....	7	.....	.....	.....	.....	gloomy.....	Sgt. J. Norris, A. H C.
Glasgow, Observatory	29.90	759.4	30.10	764.5	43.8	6.6	69	wsw.	.....	.....	4	.....	2 k	.....	.....	blank	blank	blue sky.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.10	764.5	30.28	769.1	45.7	7.6	93	ne.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	The Staff.
Guernsey	30.00	762 0	30.31	769.9	50.5	10.3	85	s.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky.....	A. Collenette, F. M. S
Kew, Observatory	30.24	768.1	30.28	769.1	47.2	8.4	89	wnw.	3	1.3	.....	.....	9	.....	.....	.....	.....	d. clouds.....	The Staff.
Leicester, Museum	29.99	761 7	30.25	768.3	48.2	9.0	62	w.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky.....	J. C. Smith.
Malta, Mediterranean	30.03	762 7	30.10	764.5	54.0	12.0	86	ne.	.....	.....	3	.....	0	.....	.....	0.21	5.3	d. clouds.....	Corpl. Keene, A. H. C
Nassau, Bahamas	30.19	766.8	30.24	768.1	75.0	23.9	88	se.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe
Oscott, St. Mary's College	29.70	754.4	30.24	768.1	42.4	5.8	83	w.	.....	.....	3	.....	2	.....	.....	.....	.....	misty.....	Rev. Jas. W. Browne
Oxford, Radcliffe Obs'y	30.04	763.0	30.26	768.6	48.9	9.4	72	calm	.....	.....	0	.....	1	.....	.....	.....	.....	misty.....	The Staff.
Plymouth	30.17	766.3	30.25	768.3	51.3	10.7	97	s.	.....	.....	1	.....	10	.....	.....	.....	.....	misty.....	John Merrifield.
Sandwick Manse, Orkneys	29.70	754 4	29.80	756.9	45.1	7.3	79	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	d. clouds.....	Rev. C. Clouston, L L D.
Scutari Cemetery, Turkey	30.18	766.6	30.25	768.3	39.0	3.9	89	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	raining.....	W. H. Lyne.
Sheffield	29.94	760.5	30.23	767.8	46.4	8.0	67	w.	.....	.....	2	.....	1	.....	.....	0	0	blue sky.....	W. F. Cooper.
Sillioth Rectory	30.14	765.5	30.17	766.3	45.0	7.2	79	w.	.....	.....	3	.....	2	.....	.....	0	0	d. clouds.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.22	767.6	43.5	6.4	79	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	d. clouds.....	Rev. S. J. Perry.
Stratfield Turgiss	30.04	763.0	30.26	768.6	47.7	8.7	96	w.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	30.22	767.6	30.28	769.1	51	10.6	93	sw.	.....	.....	2	.....	8	.....	.....	.....	.....	gloomy.....	W. Newcombe.
Valencia, Observatory	30.07	763.8	30.09	764 3	47.5	8.6	89	ese.	24	10.7	.....	.....	10	.....	.....	.....	.....	misty.....	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	2	—16.7	.....	nw.	5	2.2	.....	3 ck	0	.....	.....	0	0	d. clouds.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.47	773.9	30.52	775.2	0	—17.8	100	w.	1	0.4	.....	.....	10 8	.....	nw.	0	0	hazy.....	H. J. Cundall, C. E
Chatham, N. B*	30.50	774 7	30.58	776.7	—18	—27.8	100	calm	0	0	.....	2 c	0	calm	.....	0	0	fair.....	G. A. Blair.
Cornwall	30.11	764.8	30.32	770.1	12.5	—10.8	100	e.	.....	.....	1	.....	10 8	.....	.....	inap.	inap.	overcast.....	Jas. Smith, M. A.
Dalhouse	30.50	774.7	30.55	776.0	—10.0	—23.3	.....	calm	.....	.....	0	0	0	.....	.....	0	0	blue sky.....	H. A. Johnson.
Father Point, Quebec*	30.54	775 7	30.56	776.2	—13	—25.0	74	sw.	4	1.8	.....	0	2 8	.....	calm	0	0	clear.....	J. McWilliams.
Fort Garry, Manitoba*	29.28	743.7	30.31	769.9	—39	—39.4	100	n.	10	4.5	.....	0	0	.....	.....	0.08	2.0	clear.....	James Stewart.
Fredericton	30.52	775.2	30.60	777.2	—13.9	—25.5	100	calm	0	0	.....	0	0 8	.....	.....	0	0	clearing.....	Prof. Harrison, L. L. D.
Grunton	29.01	736.8	30.18	766.6	23.3	— 4.8	96	e.	2	0.9	.....	.....	10	.....	.....	0	0	dense fog....	Jas. Grant.
Halifax, N. S*	.....	.....	.....	.....	8	—13.3	96	n.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	A Allison.
Hamilton	29.72	754.9	30.13	765.3	26.7	— 2.9	82	e.	.....	.....	2	10 cs	0	e.	.....	0	0	overcast.....	Geo. Dickson, B. A.
Kingston, Ontario*	29.95	760 7	30.32	770.1	19	— 7.2	96	ne.	2	0.9	.....	.....	10 8	.....	.....	0.09	2.3	cloudy.....	A. P. Knight, M. A
Montreal, Quebec*	30.14	765.5	30.37	771.4	10	—12.2	96	calm	0	0	.....	.....	10 n	.....	.....	0.01	0.3	light rain....	C. H McLeod, C. E.
Ottawa	30.06	763.5	30.33	770.4	12.1	—11.1	100	calm	.....	.....	0	.....	10 8	.....	.....	0	0	overcast.....	A. McGill, M. A.
Parry Sound, Ontario*	29.45	748.0	30.19	766.8	23	— 5.0	88	s.	12	5.4	.....	.....	10 8	.....	sw.	0.06	1.5	cloudy	Rev. R. Moseley.
Peterboro	29.40	748.3	30.28	769.1	16.6	— 8.6	100	calm	.....	.....	0	.....	10 n	.....	.....	0.05	1.3	overcast	J. Dixon, B. A.
Port Dover, Ontario	29.40	746.7	30.13	765.3	31	— 0.6	100	se.	5	2.2	.....	.....	10 n	.....	.....	0.13	3.3	threatening.	H. Morgan.
Port Stanley, Ontario	29.44	747.8	30.12	765.0	29	— 1.7	96	e.	8	3.6	.....	.....	10 n	.....	e.	0.04	1.0	cloudy.....	M. Payne.
Quebec, Quebec*	30.12	765.0	30.47	773 9	8	—13.3	100	ne.	.....	.....	5	.....	10 n	.....	.....	0.05	1.3	light snow...	Capt. Ashe, R. N
Rockliffe, Ontario*	29.74	755.4	30.24	768.1	12	—11.1	87	e.	6	2.7	.....	.....	10 n	.....	.....	0.01	0 3	threatening	W. H. McIntyre.
Saugeen, Ontario*	29.39	746.5	30.16	766.1	20	— 6.7	100	sw.	8	3.6	.....	.....	10 8	.....	.....	0	0	cloudy.....	
St. Andrews, N. B	30.47	773.9	30.53	775.4	9	—12.8	89	n.	3	1.3	.....	.....	10 n	.....	.....	0	0	cloudy.....	
St. John, N. B	30.38	771.6	30.50	776.2	4.0	—15.6	100	ne.	.....	.....	.....	7 ek	0	.....	.....	0	0	d. clouds.....	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.08	764.0	12.9	—10.6	.....	n.	.....	.....	7	.....	.....	.....	.....	0	0	.....	The Commandant.
Stratford	28.78	731.0	30.14	765.5	23.4	— 4.8	96	calm	0	0	.....	.....	10	.....	.....	0.05	1.3	foggy.....	C. J. Macgregor, M. A.
Sydney, C. B*	30.34	770.6	30.41	772.4	0	—17.8	91	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	T. C. Hall, C. E.
Toronto, Ontario*	29.81	757.2	30.21	767.3	27	— 2.8	92	s.	7	3.1	.....	.....	10 n	.....	.....	0.40	10.2	cloudy.....	Magnetic Observatory.
Windsor	30.40	772.1	30.51	774.9	8.0	—13.3	89	calm	0	0	.....	0	3 n	.....	.....	0	0	fair.....	Prof. W. H. Butler.
Woodstock	29.95	737.9	30.17	766.3	25.7	— 3.5	97	e.	6	2.7	.....	.....	10 8	.....	.....	0.20	5.1	foggy.....	Prof. Wolverton, M. A.
Yarmouth, N. S*	30.44	773.2	30.51	774.9	15	— 9.4	83	e.	2	0.9	.....	8 ek	0	w.	.....	0	0	fair.....	Lt. F. E. Wilmot, R. A.
Cape Colony.																			
Cape St. Francis Lt. House	29.94	760.5	29.97	761.2	68.0	20.0	83	ene.	5.3	2.4	.....	.....	10 ks	.....	.....	0.080	2.0	dull.....	John Duthie.
Springbok Fontein	27.87	707.9	.....	.....	73	22.8	49	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.32	617.6	.....	.....	27.1	— 2.7	.....	ese.	.....	.....	1	.....	9	.....	.....	.....	.....	.....	
Tchang-kia-tchouang	30.20	767.0	30.31	769.8	19.4	— 7.0	72	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	Mission, S. J.
Zi-Ka-Wei, near Shanghai	30.37	771.5	30.40	772.1	29.7	— 1.3	96	e.	4.5	2.0	.....	0	0	.....	.....	0	0	clear	M. Marc Dechevrens, S.J
Danish.																			
Copenhagen	29.86	758.4	29.91	759.6	40.6	4.8	76	wsw.	22	10	.....	.....	8	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	29.96	761.0	29.98	761.5	38.3	3.5	85	w.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.86	758.4	29.90	759.5	2.1	—16.6	75	nne.	.....	.....	5	.....	1	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	29.43	747.5	29.45	748.0	— 0.4	—18.0	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	30.14	765.5	30.19	766.7	—18.2	—27.9	.....	s.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.54	750.2	29.58	751.3	27.3	— 2.6	92	e.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.81	757.1	29.88	758.0	41.0	5.0	72	calm	0	0	.....	.....	3	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	29.73	755.2	29.82	757.5	38.3	3.5	87	wsw.	.....	.....	6	.....	0	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	30.00	761.9	30.04	763.1	—17.0	—27.2	.....	sw.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	29.65	753 1	30.33	770.3	45.3	7.4	97	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.79	756.6	30.34	770.6	41.7	5.4	97	s.	.....	.....	1	.....	fg	n.	n.	0	0	foggy	M. Nicot, Director.
Arras, Engineer School	30.09	764.2	30.35	771.0	44.1	6.7	97	.....	.....	.....	3	.....	10	.....	.....	0	0	covered	M. Fénéon, Command't.
Avignon, Normal School	30.32	770.1	30.40	772.1	43.9	6.6	71	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.81	757.1	30.39	772.0	36.7	2.6	89	sse.	.....	.....	1	0	5 kn	.....	s.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	30.09	764.3	30.37	771.3	41.7	5.4	91	sse.	.....	.....	1	.....	10	.....	.....	0.001	0.1	foggy	M. Frère Eugène Marie.
Besançon, Normal School	29.45	747.9	30.40	772.2	35.2	1.8	85	ne.	.....	.....	1	.....	n	.....	nne.	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	30.04	763.0	30.31	769.8	47.5	8.6	77	se.	.....	.....	1	.....	8	.....	.....	0.008	0.2	al. covered	M. Rayet, Director.
Bourges, Normal School	29.78	756 3	30.35	770.9	38.3	3.5	83	ne.	.....	.....	1	c	o	ne.	.....	0	0	.....	M. Malet, Director.
Brest, Naval Observatory	30.06	763.6	30.31	769.8	50.4	10.2	92	ssw.	.....	.....	2	.....	10	.....	ssw.	0.031	0.8	.....	M. de Kermarec, Dir.
Caen, Normal School	30.21	767.3	30.29	769.3	46.2	7.9	94	e.	.....	.....	1	.....	2	.....	e.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.00	762.1	30.34	770.5	39.2	4.0	98	se.	.....	.....	2	.....	10	e.	se.	0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.84	758 0	30.36	771.2	34.2	1.2	81	se.	.....	.....	1	.....	10	.....	se.	0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28 97	735.7	30.35	770.8	50.0	10.0	55	n.	.....	.....	1	.....	0	.....	.....	0	0	light haze	M. Allnard, Director.
Cluny, Normal School	29.52	749.9	30.45	773.3	37.4	3	86	sw.	.....	.....	1	.....	.....	.....	sw.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.51	749.6	30.42	772.7	34.2	1.2	96	se.	.....	.....	1	.....	10 n	se.	se.	0	0	light fog	Dr. Coulet, Director.
Gap, Normal School	27.83	706.8	30.45	773.3	44.1	6.7	77	.....	.....	.....	.....	.....	0	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, du Rhone	29.20	741.7	30.34	770.6	52.7	11.5	54	n.	.....	.....	1	.....	1	.....	sw.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.61	752.2	30.42	772.6	42.4	5.8	67	e.	.....	.....	1	2 c	0	.....	.....	0	0	slightly cl'dy	M. Ablard, Director.
Guéret	28.77	730.8	30.38	771.7	50.0	10	56	n.	.....	.....	1	.....	n	.....	.....	0	0	.....	M. Delorme, Dir.
Lamballe, Normal School	30.02	762.4	30.29	769.4	48.2	9	86	se.	.....	.....	1	.....	10	.....	se.	0	0	covered	M. Ollivrault, Director.
Lescar, Normal School	29.73	755 1	30.30	769.6	55.4	13.0	55	e.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.24	768.2	30.35	770.8	49.3	9.6	79	se.	.....	.....	1	.....	8	w.	sw.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.32	744.7	30.43	773.0	33.4	0.8	85	se.	.....	.....	1	.....	fg	.....	.....	0	0	dense fog	M. André, Director.
Mans, Normal School	30.06	763.4	30.38	771.7	36.9	2.7	95	w.	.....	.....	1	.....	fg	.....	.....	0	0	foggy	M. Piboën, Director.
Marseille, Observatory	30.07	763.8	30.34	770 7	57.7	14.3	64	wsw.	.....	.....	0.1	.....	4	.....	nne.	0	0	.....	M. Stephan, Director.
Montlouis	25.03	635.8	29.87	758.8	39.6	4.2	42	sw.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	M. Caré for Dr. Finas.
Montpellier, Normal School	30.24	768.0	30.37	771.4	51.8	11	70	w.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.53	750.1	30.36	771.1	33.1	0.6	93	ssw.	.....	.....	1	.....	fg	.....	.....	0	0	foggy	M. Hasse, Director.
Nantes, Observatory	30.21	767 4	30.38	771.6	41.5	5.3	93	ese.	.....	.....	0–1	.....	10	.....	.....	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	30.27	768.8	30.38	771.7	48.4	9.1	84	ne.	3.8	1.7	.....	.....	9	.....	se	0	0	.....	Dr. Finas, Director.
Pic-du-Midi, Summit	21.39	543.4	.....	.....	32.9	0.5	.....	ene.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Vaussenat.
Privas, Normal School	29.30	744.2	30.43	772.9	36.3	2.4	71	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.38	644.6	.....	.....	38.5	3.6	47	wsw.	.....	.....	2	2 c	0	.....	.....	0	0	.....	M. Allnard, Director.
Rochefort, Naval Obs'y	30.26	768.5	30.29	769.3	49.6	9.8	76	ese.	.....	.....	2	.....	0	.....	.....	0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.10	764.6	30.33	770.3	41.0	5	100	s.	.....	.....	1	.....	hz	.....	.....	0	0	hazy	M. Brotier, Director.
Rodez, Normal School	28.16	715 3	30.38	771.6	41.5	5.3	36	.....	.....	.....	.....	.....	0	.....	.....	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.32	770.2	30.37	771.4	40.6	4.8	87	s.	.....	.....	1	.....	10	se.	.....	0	0	covered	M. Mouillot.
Saint Lô	.....	.....	.....	.....	49.6	9.8	71	sw.	.....	.....	1	.....	5	.....	sw.	0	0	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	30.21	767.2	30.37	771.4	35.1	1.7	96	ssw.	.....	.....	1	.....	10	.....	.....	0.004	0.1	.....	M. Renou, Director.
Toulouse, Observatory	29.64	752.9	30.37	771.5	50.0	10.0	72	se.	.....	.....	2	.....	1	w.	.....	0	0	clear	M. Baillaud, Director.
Tours	30.18	766.5	30.35	771.0	42.1	5.6	78	e.	.....	.....	1	.....	1	.....	sw.	0	0	hazy	M. de Tastes.
Versailles, Observatory	29.85	758.1	30.34	770.6	36.0	2.2	96	sw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	30.17	766.3	30.32	770.1	50.0	10.0	62	ne.	5.8	2.6	.....	0	0	.....	.....	0	0	clear	M. Cartier, Director.
German.																			
Ansbach	28.99	734 1	30.44	773.2	30.9	— 0.6	89	s.	.....	.....	2	.....	9	s.	.....	0	0	.....	Prof. Jnedt.
Bamberg	29.52	749.8	30.37	771.5	33.8	1.0	80	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Prof. Dr Hoh.
Berlin	30.08	764.0	30.23	767.8	36.5	2.5	95	sw.	.....	.....	2	.....	10	.....	.....	0.004	0.1	raining	Dr. Lensch.
Breslau	29.75	755.7	30.29	769.3	40.5	4.7	38	wsw.	.....	.....	2	.....	10	.....	.....	0	0	light fog	Royal University Obs'y.
Carlsruhe	29.91	759.6	30.37	771.5	33.1	0.6	92	s.	.....	.....	1	.....	10	.....	.....	0	0	foggy	Albert Senz.
Cassel	29.55	750.5	30.26	768 6	34.9	1.6	85	s.	.....	.....	6	.....	8	sw.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	30.02	762.6	30.41	772.5	35.2	1.8	69	ssw.	.....	.....	1	.....	10	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28 93	734.7	30.44	773 2	33.8	1.0	57	w.	.....	.....	1	.....	10	.....	.....	0	0	hazy	Wilhelm, Chief Tel.
Hamburg	30.07	763.7	30.16	766.0	39.7	4.3	99	wsw.	.....	.....	5	.....	10	.....	.....	0.024	0.6	hazy	E. Preller.
Kiel	30.06	763.6	30.08	764.0	40.5	4.7	90	w.	.....	.....	6	.....	0	.....	.....	0.047	1.2	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.87	758.7	30.31	769.9	36.3	2.4	72	ssw.	.....	.....	3	.....	10	sw.	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	30.05	763 3	30.25	768.3	40.8	4.9	84	wsw.	.....	.....	2	0	7 ks	.....	wnw.	0	c	.....	Weather Observatory.
Memel	30.01	762.2	30.06	763 4	32.0	0	100	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	rain & snow	Issermann.
Munich	28.52	724.4	30.41	772.3	28.2	— 2.1	89	calm	.....	.....	0	.....	10	.....	.....	0	0	light fog	Central Station.
Neufahrwasser	30.07	763 7	30.08	764 1	37.8	3.2	80	sw.	.....	.....	2	.....	10	wsw.	.....	0.012	0.3	.....	A. Lothes.
Neustadt, Palatinate	29.85	758.1	30.38	771.7	33.1	0.6	96	s.	.....	.....	1	.....	10	.....	.....	0	0	dense fog	Dicknether.
Stuttgart	29.41	746 9	30.35	770.8	34.2	1.2	78	n.	.....	.....	1	.....	10	.....	.....	0	0	foggy	Prof. Dr. Schoder.
Wustrow	30.05	763.3	30.08	764.0	37.9	3.3	98	sw.	.....	.....	5	.....	10	.....	.....	0	0	.....	Profs. Brandes & Reimer
Greek.																			
Athens	29.79	756.7	30.19	766.9	43.3	6.3	.....	ne.	.....	.....	5.0	0	8 k	.....	.....	0.031	0.8	.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.95	760.6	30.00	761.9	75.7	24.3	53	wsw.	18.0	8.0	.....	.....	4	.....	w.	0	0	d. clouds	
Deesa	29.43	747 4	29.90	759.6	81.4	27.4	26	wnw.	8.0	3.6	.....	.....	2	sse.	.....	0	0	d. clouds	
Bombay	29.84	757.9	29.88	758.9	80.5	26.9	59	wnw.	10.0	4.5	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.00	711.3	29.86	758.4	79.8	26.6	23	e.	8.0	3.6	.....	.....	6	w.	w.	0	0	d. clouds	
Belgaum	27.33	694.2	29.88	759.0	73.2	22.9	33	ese.	8.0	3.6	.....	.....	4	.....	se.	0	0	d. clouds	
Lahore	29.17	740 9	29.94	760.4	66.6	19.2	46	se.	4.0	1.8	.....	.....	10	.....	.....	0	0	d. clouds	
Roorkee	29.08	738 6	30.02	762.4	62.2	16.8	59	calm	1.0	0.4	.....	.....	6	w.	.....	0	0	.....	
Agra	29.41	747 0	30.00	761.9	65.3	18.5	45	e.	2.0	0.9	.....	.....	8	.....	e.	0	0	d. clouds	
Nagpur	28.89	733.8	29.94	760.6	77.0	25.0	32	s.	4.0	1.8	.....	.....	7	.....	sw.	0	0	d. clouds	
Jubbulpore	28.58	725 9	29.95	760.8	75.1	23.9	39	ne	2.0	0.9	.....	.....	2	.....	sw.	0	0	d. clouds	
Lucknow	29.63	752 6	30.02	762.5	69.3	20.7	38	calm	0	0	.....	.....	8	e.	.....	0	0	d. clouds	
Allahabad	29.67	753 7	30.00	762.0	63.3	17.4	70	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.83	757.6	30.02	762.5	66.8	19.3	52	sse.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.92	709 1	29.99	761.7	64.7	18.2	37	calm	2.4	1.1	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.89	759 2	29.98	761.4	73.6	23.1	50	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Allpore	29.97	761 3	30.00	761.9	65.7	18.7	57	n.	0.5	0.2	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.88	758.9	30.00	762.1	67.9	19.9	71	ne.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.91	759 7	30.00	762 1	66.6	19.2	74	w.	2.8	1.2	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.70	754.5	30.06	763 4	60.7	15.9	85	ne.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Jeypore	28 49	723 6	29.96	761.0	70.7	21.5	58	se.	4.8	2.2	.....	.....	7	.....	se.	0	0	d. clouds	
Bellary	28.42	721.9	.....	.....	78.0	25.9	46	e.	6	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.64	752.8	.....	.....	80.8	27.1	56	e.	1	0.4	.....	.....	6	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.																			
Udine	30.01	762.3	30.43	773.0	45.9	7.7	22	ne.	1.8	0.8			0			0	0		Prof. Giovanni Clodig.
Milan	29.97	761.1	30.50	774.8	31.5	— 0.3	96	w.	3.8	1.7			10	se.		0.020	0.5		Prof. Schiaparelli.
Padua	30.33	770.4	30.45	773.3	42.6	5.9	43	nnw.	6.3	2.8			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.57	751.0	30.51	775.0	33.1	0.6	88	nw.	0	0			0			0	0		Prof. F. F. Denza.
Genoa	30.18	766.6	30.37	771.5	51.1	10.6	25	n.	9.4	4.2			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.50	723.9	30.49	774.4	37.4	3.0	50	w.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	30.32	770.2	30.37	771.5	41.0	5.0	90	nw.	23.7	10.6			2			0	0		Prof. Luigi Guidi.
Florence	30.11	764.9	30.37	771.5	46.4	8.0	30	ne.			0		0			0	0		Prof. Costantino Pittei.
Leghorn	30.21	767.2	30.29	769.4	48.0	8.9	26	ne.	8.1	3.6			0			0	0		Prof. P. Monte.
Rome	30.09	764.2	30.26	768.7	50.0	10.0	24	nne.					0			0	0		Prof. P. Tachini.
Lecce	29.96	761.0	30.22	767.5	48.4	9.1	51	nne.	11.9	5.3			3	ne.		0	0		Prof. C. de Giorgi.
Cosenza	29.30	744.1	30.19	766.9	48.2	9.0	73	nnw.	4.3	1.9			3	nw.		0	0		Prof. D. Conti.
Cagliari	29.99	761.7	30.19	766.7	51.6	10.9	56	nnw.			2		1	e.		0	0		Prof. A. Pacinotti.
Palermo	29.92	760.0	30.17	766.4	50.9	10.5	71	w.	0	0			9	ne.		0.331	8.4		Prof. G. Caccatore.
Syracuse	30.06	763.6	30.11	764.7	53.1	11.7	64	ne.	29.8	13.3			9	ne.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.71	754.7	30.26	768.6	48.2	9.0	48	ne.	9.8	4.4			1	e.		0	0		Prof. F. Brioschi.
Stelvio	22.36	567.9			26.4	— 4.1	30	se.			2		3			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.43	569.6			31.6	— 0.2	24	se.			2		0			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.02	762.4	30.05	763.2	29.5	— 1.4	75	w.			2		9 ck;n		nw.	0.331	8.4	snowing	Hattori.
Awomori	29.94	760.5	29.98	761.4	28.5	— 1.9	83	wnw.	14.0	6.3			10 s			0.142	3.6	overcast	K. Ogawa.
Hakodate	29.94	760 4	29.95	760.7	27.0	— 2.8	95	nw.	18.0	8.0		0	5		n.	0	0	fair	
Hamamatsu	30.13	765 3	30.16	766.0	29.0	— 1.7	43	w.			4	0	0			0	0	clear	
Kagoshima	30.28	769 2	30.30	769.5	35.2	1.8	64	n.			4	0	0			0	0	clear	G. Miyanohaza.
Kioto	30.07	763.9	30.20	768.0	29.4	— 1.4	71	w.					10ck;s		nw.	inap	inap.	cloudy	M. Tojima.
Kochi	30.26	768.6	30.28	769.1	36.8	2.7	59	ne.	9.7	4.4		0	0			0	0	clear	K. Kusunose.
Misaaka	30.25	768.4	30.28	769.2	31.1	— 0.5	81	calm			0	0	0			0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.12	765.0	30.34	770.5	32.7	0.4	81	calm	0	0		0	0			0	0	clear	S. Takehayashi.
Niigata	30.10	764.6	30.14	765.5	31.9	— 0.1	72	w.	14.1	6.3		0	6 ck;s		wnw.	0.080	2.0	fair	M. Morita.
Nobiru	29.95	760.7	29.96	761.1	28.5	— 1.9	89	nw.	18.9	8.4		0	0			0	0	clear	H. Midzushima.
Numazu	30.07	763.7	30.10	764.6	27.3	— 2.6	60	calm			0	0	0			0	0	clear	R. Kaneda.
Sakai	30.30	769.5	30.31	769 8	33.0	0.6	79	w.			2		10 s		w.	0.004	0.1	cloudy	K. Yamawchi.
Sapporo					24.5	— 4.2	94	nw.	18.8	8.4		0	8		n.	0.015	0.4	snowing	
Tokei Obs'y, Yeddo	30.01	762.3	30.09	764 4	27.2	— 2.7	59	nw.	10.7	4.7		0	0			0	0	clear	The Staff.
Wakayama	30.23	767.9	30.29	769.3	32.7	0.4	60	n.	5.9	2.6		10 ck	0	n.		0	0	cloudy	Y. Kuwamuea.
Osaka	30.27	768.8	30.28	769.3	30.9	— 0.6	61	nw.	7.9	3.5		5 ck	5 s	nnw.	nnw.	0	0	cloudy	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.66	753.4	29.85	758.2	81.7	27.6	66	e.	23.0	10.3		0	4 k;n		ese.	0.13	3.3	fair	Oliver & Figon.
MEXICAN.																			
Altata					54.5	12.5	73	n.										clear	H. Diaz Pena.
Guanajuato	23.69	601.6	29.91	759.6	51.6	10.9	91	se.	inap.	inap.		1 c	0			0	0	light fog	Prof. Vicente Fernandez.
Leon	24.35	618.5	30.14	765.5	49.8	9.9	92	nnw.			1	5 c	0			0	0	½ cloudy	Prof. M. Leal.
Mazatlan	29.80	757.0	30.07	763.7	66.5	19.2	66	nw.	1.6	0.8		0	9 n		sw.	0	0	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	586.9	30.27	768.9	46.9	8.3	64	calm	0	0		1 c	0			0	0	very fine	The Staff.
Morelia	24.08	611.6	29.97	761.2	46.8	8.2	72	s.			3	0	0			0	0	clear	M. Tena, M. D.
Pabellon	24.94	608.2	30.04	763.0	50.7	10.4	85	calm	0	0			0			0	0		
Puebla, Catholic Institute	23.46	595.5	30.40	772.3	43.5	6.4	71	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
Zacatecas	22.49	571.2	30.19	766.9	47.2	9.0	86	sw.	14.1	6.3			10 km		sw.	0	0	covered	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.29	769.3	30.29	769.3	45.1	7.3		sw.			4					0	0		
Groningen	30.14	765.5	30.19	766.9	43.2	6.2		wsw.			2					0.067	1.7		
Hellevoetsluis	30.28	769.0	30.28	769.0	43.0	6.1	93	sw.			3					0	0		
Utrecht	30.23	767.9	30.28	769.1	44.1	6.7	97	sw.			2		hz.			0.016	0.4	hazy	H. van der Brink
Sub-series.																			
Batavia, Java	29.84	757.9			78.4	25.8	83	n.	0	0			9			0.12	3.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.29	743.9	29.35	745.5	38.1	3.4	87	sse.	20	9			10			0.228	5.8	raining	
Bronc	29.36	745 8	29.40	746.8	34 5	1.4	74	calm	0	0			3			0.327	8.3		
Christiania	29.33	745.0	29.48	748.8	36.1	2.3	84	sw.	11	5			2			0.094	2.4		
Gjesvier	29.32	744.7	29.34	745.3	35.1	1.7		sw.			2		10						
Lodingen	29.37	746.0	29.42	747.2	32.5	0.3	89	calm			0		10			0.110	2.8		
PORTUGUESE.																			
Angra, Azores	29.63	752.7	29.79	756.7	55.9	13.3	69	wnw.	23.0	10.3			5			0.250	6.5		Dr. J. A. Sampaio.
Campo Major	29.21	742.7	30.27	768.8	50.2	10.1	64	ene.	8.1	3.6			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	29.95	760.8	30.04	763.0	66.0	18.9	72	ese.	3.8	1.7			5			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.89	759 3	30.20	768.7	49.1	9.5	69	ene.	10.5	4.7			0			0	0		The Staff.
Ponta Delgada, Azores	29.57	751.1	29.64	752.9	67.2	16.2	89	ssw.	25.5	11.4			3			0.370	9.4		
Saint Paul de Loando	29.07	753.5	29.80	758.5	83.1	28.4	73	w.	1.3	0.6			9			0	0		
Serra da Estrella	25.43	646.0	30.30	769.7	38.1	3.4	43	sse.	19.2	8.6			0			0	0		
RUSSIAN.																			
Akmolinski	29.31	744.4	30.62	777.7	—31.9	—35.5	77	ssw.	11	5		0	0						Major K. Lasarew.
Archangel	29.42	747.3	29.44	747.8	30.6	— 0.8	92	sw.	9	4			10			0.055	1.4		Capt. Sselliwerstow.
Ashurada	30.01	777.0	30.52	775 2	28.6	— 1.9	72	ene.	9	4		ck	4 s			0	0		
Astrakhan	30.47	773 9	30.39	771.8	14.9	— 9.5	56	wsw.	2	1		0	0			0	0		Capt. Wisganow.
Baku	30.53	775.5	30.48	774.3	32.4	0.2	98	ssw.	9	4		0	1 ks			0	0		
Barnaul	30.19	766.7	30.78	781.9	—21.6	—29.8	80	calm	0	0			5			0	0		Meteorological Obs'y.
Bielosersk	29.22	742.3	29.79	756.7	21.2	— 6.0	96	ssw.	4	2			10 n			0.043	1.1	snowing	
Dorpat	29.65	753.2	29.91	759.6	31.5	— 0.3	100	wsw.	9	4			10 n			0.075	1.9		Observatory.
Ekaterinburg	28.90	734.1	29.96	761.0	2.3	—16.5	87	wsw.	4	2			10			0.059	1.5	snowing	Meteorological Obs'y.
Elisawetgrad	29.96	761.0	30.45	773 4	19.0	— 7.2	58	calm	0	0		0	8 k			0	0		
Irkutsk	28.79	731 2	30.03	778.1	0.0	—17.3	90	nnw.			4		8			0	0		
Kasan	29.60	753.3	29.95	760.6	19.6	— 6.9	83	wsw.	4	2			10			0.039	1.0		Observatory.
Kem	29.44	747.8	29.49	749.1	20.8	— 1.2	92	w.	4	2			10			0	0	heavy clouds	
Kertch	30.35	770.8	30.37	771.3	18.1	— 7.7	78	calm	0	0			0			0	0		Lagorio & Sastyrez.
Kief	29.03	752.0	30.31	769.9	23.7	— 4.6	79	w.	7	3			10ks;n			0	0		Observatory.
Koslov	29.50	750.7	30.13	765.4	12.0	—11.1	78	wsw.	18	8		0	7 s			0	0		
Libau	29.92	759.9	29.94	760.5	32.9	0.5	96	s.	18	8			10			0.035	0 9		E. Quass.
Lugan	30.16	766 1	30.37	771.3	0.5	—12.5	66	wsw.	4	2			0			0	0		Meteorological Obs'y.
Moscow	29.45	747.9	29.90	761.0	17.2	— 8.2	86	calm	0	0			10 s					light snow	
Nikolaiev	30.40	772.2	30.48	774.1	15.8	— 9.0	81	calm	0	0		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.80	756.8	29.88	759.0	—13.0	—25.0	55	calm	0	0			0			0	0		Iwanow.
Pekin, China	30.18	766.0	30.32	770.2	10.6	— 6.9	72	calm	0	0		0	0			0	0		Physicle Observatory.
Petrozavodsk	29.39	746.5	29.90	751.7	27.7	— 2.4	92	w.	10	7			10			0.071	1.8	light clouds	Dr. Bergmann.
Pinsk	29.78	756.4	30.30	760.7	31.8	— 0.1	85	wsw.	13	6			10 s			0.004	0.1		
Poti	30.22	767 7	30.24	768.2	38.8	3.8	46	e.	4	2		0	0			0	0		
St. Petersburg	29.70	750.0	29.78	756.4	20.5	— 1.4	96	wnw.	16	7			10 n			0.020	0.5		Central Physical Obs'y.
Samarkand	27.95	710.0	30.74	780.8	3.9	—15.6	52	calm	0	0		0	0						
Sevastopol	30.08	764.0	30.24	768.2	37.4	3.0	53	w.	7	3		0	0			0	0		
Semipalatinsk	29.98	761.6	30.73	780.5	— 6.5	—21.4	85	e.	13	6			10			inap.	inap.		Major Lasarew.
Starol Bykhov	29.71	754.0	30.19	766.8	33.1	0.6	82	ssw.	9	4			10			0.091	2.3		
Tiflis	29.60	730 7	30.58	776 6	12.9	—10.6	67	calm	0	0		0	0			0	0		Physical Observatory.
Tomsk	30.33	770.4	30.66	778.8	—24.3	—31.3	73	s.	7	3			10					light clouds	
Vlatka	29.10	739.0	29.70	755.9	19.8	— 6.8		wsw.	2	1			10			inap.	inap.		
Warsaw	29.83	757.6	30.28	769.0	33.8	1.0	81	sw.	9	4		0	8 s			0	0		Astronomical Obs'y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From	Inch.	Mill.		
Russian.—Continued.																			
Wilna	29.71	754.7	30.15	765.9	—32.4	0.2	87	sw.	7	3			10			0.004	0.1	heavy clouds	Berg, Assistant.
Yeniseisk	30.37	771.4	30.71	780.1	—21.8	—29.9	80	w.	4	2			10			0	0		M. O. Marks.
Scottish.																			
Monach Lt			30.05	763.3	47	8.3	92	wnw.			6		10			0.6	15.	overcast	J. Youngclause.
North Unst								nw.			8		10			blank	blank		Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.26	768.6	30.36	771.2	50.5	10.3	62	s.	1.3	0.6		0	0			0	0	misty	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.27	768.8	30.33	770.3	58.3	14.6	58	se.	1.8	0.8		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.32	693.8	30.39	771.9	41.9	5.5	88	n.	1.1	0.5		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.08	713.1	30.38	771.6	45.7	7.6	62	ne.	0.7	0.3		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.21	767.4	30.35	771.0	55.0	12.8	75	ese.	1.3	0.6		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.44	747.8	30.32	770.0	36.5	2.5	84	sw.	5.8	2.6		1 s	0			0	0	clear	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.30	744.1	30.21	767.3	52.9	11.6	82	calm	0	0			0			0	0	clear	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.97	761.3	30.03	762.7	72.2	22.3	77	se.	4.9	2.2		1 c	1 k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.14	765.6	30.24	768.1	58.6	14.8	68	e.	18.3	8.2		0	8		e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I.	30.09	764.2	30.18	766.5	76.6	24.8	86	e.	14.3	6.4		5 k	4 k	e.	e.	0.059	1.5	cloudy	Manuel Maese.
Swedish.																			
Haparanda	29.52	749.7	29.56	750.7	5.7	—14.6	100	se.			2		10			0.146	3.7		
Umea	29.49	749.0	29.54	759 3	16.2	— 8.8	94	nnw.			2		10			0	0		
Hernosand	29.39	746.4	29.44	747.7	31.6	— 0.2	85	calm			0		10			0	0		
Stockholm	29.34	745.1	29.51	749.6	34.2	1.2	96	sw.			4		10			0	0		
Wisby	29.67	753.5	29.72	755.0	36.3	2.4	96	wsw.			6		10			0.177	4.5	raining	
Sub-series.																			
Upsala	29.37	745.9	29.45	748.1	33.4	0.8	94	ssw.	21.7	9.7			10			0.146	3.7	snowing	S. G. Fineman.
Swiss.																			
Geneva	28.97	735.9	30.46	773.6	36.5	2.5	83	ese.			1		10			0	0	misty	The Observatory.
Turkish.																			
Constantinople			30.14	765.6	38.1	3.4	83	ne.	22	10.0			10		ne.	0	0		The Observatory.
Valona			30.20	767.1	51.4	10.8		ne.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.85	758.1	59.2	15.1	77	ne.			1		8 n		sw.	0.48	12.2		Prof. C. V. A. van Dyck.
Samokov, Bulgaria	27.00	685.8			26	— 3.3	74	calm			0	0	0			0	0.	clear	Fred L. Kingsbury.
United States.																			
Albany, New York	30.33	770.4	30.42	772.7	27	— 2.8	77	sw.	4	1.8			10 s			0.26	6.6	cloudy	J. O. Barnes.
Alpena, Michigan	29.42	747.3	30.13	765.3	14.3	— 9.8	80	w.	8	3.6			10 s			0.12	3.0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.02	635.5	30.14	765.5	— 2	—18.9	48	ne.	22	9.8		0	0			0.10	2.5	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	27.05	687.1	30.09	764.3	3	—16.1	76	sw.	28	12.5			10 s		sw.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.90	734.0	30.13	765.3	44.0	6.7	100	ne.	7	3.1			10 n			2.68	68.1	light rain	H. C. Smith.
Atlantic City, New Jersey	30.33	770.4	30.34	770.6	35	1.7	89	n.	10	4.5			10 n; fg			0.36	9.1	light rain	Jas. M. Watson.
Augusta, Georgia	30.01	762.2	30.21	767.3	48	8.9	93	n.	1	0.4			10 n			0.42	10.7	light rain	John Heady.
Baltimore, Maryland	30.32	770.1	30.36	771.1	35	1.7	79	n.	4	1.8			10 s; fg			0.22	5.6	cloudy	Geo W Felger.
Barnegat, New Jersey	30.32	770.1	30.34	770.6	37.0	2.8	100	e.	17	7.6			10 n			0.29	7.4	light rain	G. A. Hill.
Behring Id., Behring Sea	29.01	736.8	29.03	737.3	26.6	— 3.0		n.	19	8.5			10 n			Inap.	Inap.	cloudy	Leonard Steineger.
Bennett, Fort, Dakota	28.66	728.0	30.40	772.1	—37	—38.3	100	cal m	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.17	690.1	30.15	765.8	— 5	—20.6	65	n.	30	13.4			10 n		n.	Inap.	Inap.	light snow	S. Wheaton.
Billings, Montana	26.80	680.7			—20	—28.9		sw.	32	14.3			10 s			0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.25	717.5	30.24	768.1	—34	—36.7	100	w.	4	1.8		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.38	771.6	30.41	772.4	34	1.1	88	ne.	13	5.8			10 s		e.	0.05	1.3	cloudy	J. T. Elker.
Boise City, Idaho	27.66	702.6	30.59	777.0	5	—15.0	91	sw.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.29	769.4	30.46	773.7	29.0	— 1.7	94	nw.	3	1.3			fg.			0.21	5.3	dense fog	O. B. Cole.
Brownsville, Texas	29.96	761.0	30.00	762.0	34.7	1.5	100	n.	11	4.9			10 n		n.	0.02	0.5	light rain	M. McCarty.
Buffalo, New York	29.41	747.0	30.21	767.3	30.5	— 0.8	94	ne.	4	1.8			10 s			0.08	2.0	cloudy	W. Finn.
Buford, Fort, Dakota	28.17	715.5	30.37	771.4	—38	—38.9	100	calm	0	0		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	30.07	763.8	30.38	771.6	29.0	— 1.7	77	sw.	9	4.0			10 s		w.	0.03	0.8	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.57	751.1	29.99	761 7	16.0	— 8.9	91	ne.	14	6.3			10 s		ne.	0.17	4.3	threatening	W. H. Ray.
Cape Henry, Virginia	30.24	768.1	30.26	768.6	38	3.3	100	n.	7	3.1			fg.			0.20	5.1	dense fog	A. K. Alderson.
Cape May, New Jersey	30.30	769.6	30.33	770.4	36.0	2.2	100	n.	10	4.5			fg.			0.46	11.7	dense fog	W. E. Smith.
Cape Mendocino, California	29.60	751.8	30.30	769.6	36.5	2.5	56	n.	18	8.0		0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.14	705.5	30.16	766.1	62	16.7	93	se.	6	2.7		0	2 s			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.16	740 7	30.04	763.0	—3.0	—19.4	66	ne.	22	9.8			10 n		ne.	Inap.	Inap.	sleeting	L. A. Welsh.
Charleston, S. Carolina	30.14	765.5	30.20	767.1	49	9.4	93	e.	6	2.7			10 s; fg			0.16	4.1	threatening	J. H. Smith.
Charlotte, N. Carolina	29.34	745.2	30.23	767.8	38.0	3.3	100	ne.	3	1.3			10 n		ne.	0.42	10.7	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.18	741.2	30.04	763.0	52.0	11.1	93	se.	11	4.9			10 n		s.	0.96	24.4	light rain	B. L. Goulding.
Cheyenne, Wyoming	23 72	602.5	29.96	761.0	—22.0	—30.0		nw.	1	0.4		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.39	746.5	30.14	765.5	0.0	—17.8	68	nw.	5	2.2			10 s			0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.24	768.1	30.26	768.6	36	2.2	100	ne.	9	4.0			fg.			0.26	6.6	dense fog	C. F. Dickens.
Cincinnati, Ohio	29.32	744.7	30.01	762.2	37	2.8	89	e.	3	1.3			10 n			0.22	5.6	light rain	R. B. Watkins.
Cleveland, Ohio	29.35	745.5	30.13	765.3	33.7	0.9	81	se.	5	2.2			10 s			Inap.	Inap.	cloudy	J. B. Newlin.
Coleman City, Texas	28.29	718.6	30.17	766.3	3	—16.1	76	n.	28	12.5			10 s		n.	0.01	0.3	cloudy	L. Dorman.
Columbus, Ohio	29.13	739.9	30.03	762.7	36	2.2	79	e.	4	1.8			10 n			0.28	7.1	heavy rain	D. Cuthbertson.
Doncho, Fort, Texas	28.14	714.7	30.16	766.1	5.0	—15.0	54	n.	4	1.8			10 s			0.01	0.3	cloudy	J. McGlone.
Davenport, Iowa	29.50	749.3	30.21	767.3	1	—17.2	72	n.	12	5.4			10 s			Inap.	Inap.	cloudy	W. B. Lamar.
Davis, Fort, Texas	25.00	635.0	29.98	761.5	25	— 3.9	67	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.70	729.0	30.50	774.7	— 5	—20.6	83	sw.	1	0.4			10 s			0	0	cloudy	D. Moore.
Deadwood, Dakota	24.99	634.7	29.93	760 2	—20	—28.9	100	sw.	7	3.1			10 n			0.01	0.3	light snow	F. Willson.
Delaware Breakwater, Del	30.29	769.4	30.31	769.9	34	1.1	100	ne.	21	9.4			fg.			0.24	6.1	dense fog	T. S. Townsend.
Denison, Texas	29.34	745.2	30.18	766.6	2.0	—16.7	100	n.	14	6.3			10 s			0.03	0.8	cloudy	J. W. Byram.
Denver, Colorado	24.54	623 3	30.06	763.5	—16.0	—26.7	52	calm	0	0		0	0			0.04	1.0	clear	F. M. Neal.
Des Moines, Iowa	29.35	745.5	30.32	770.1	—11	—23.9	50	n.	6	2.7			10 n		n.	0.15	3.8	light snow	F. W. Conrad.
Detroit, Michigan	29.40	746.7	30.16	766.1	26.4	— 3.1	88	n.	4	1.8			10 s			Inap	Inap.	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.50	698.5	30.25	768.3	—14	—25.6	100	nw.	15	6.7			10 ks		w.	0.03	0.8	cloudy	V. P. Temple.
Dubuque, Iowa	29.45	748.0	30.22	767.6	— 6	—21.1	56	nw.	4	1.8			10 s			0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.41	747.0	30.22	767.6	—22	—30.0	100	w.	6	2.7			10 s		w.	0.15	3.8	cloudy	N. B. Conger.
Eagle Pass, Texas	29.28	743.7	30.12	765.0	23.0	— 5.0	73	n.	10	4.5		0	1 s		n.	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.43	645.9	30.39	771.9	—34	—36.7	100	sw.	1	0.4		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.48	774.2	30.55	776.0	13.0	—10.6	80	n.	9	4.0			10 s		n.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.27	692.6	30.20	767.1	—12	—24.4	54	n.			6		10 s		n.	Inap.	Inap.	cloudy	W. J. Cundall.
El Paso, Texas	26.13	663 7	30.01	762.2	31.7	— 0.2	81	nw.	16	7.2		0	7 s		nw.	0.01	0.3	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.40	746.7	30.17	766.3	36	2.2	79	s.	3	1.3			10 s			0.04	1.0	cloudy	Peter Wood.
Escanaba, Michigan	29.38	746.2	30.10	764.5	6.5	—14.2	89	sw.	2	0.9			10 s			0.06	1.5	cloudy	George Heathcote.
Fredericksburg, Texas	28 26	717.8	30.08	764.0	11	—11.7	80	n.	10	4.5			10 s			0.01	0.3	cloudy	Frank Halwegler.
Galveston, Texas	29.93	760.2	29.98	761.5	30	— 1.1	78	n.	31	13.9			fg.			0.34	8.6	dense fog	E. O'C. Machnerney.
Grand Haven, Michigan	29.40	746.7	30.10	764.5	19.0	— 7.2	84	calm	0	0			10 s			0.01	0.3	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.18	639.6	30.08	764.0	12	—11.1	83	nw.	16	7.2		0	0			0.03	0.8	clear	Robert C. Lord.
Hatteras, North Carolina	30.27	768.8	30.29	769.4	43	6.1	100	n.	10	4.5			fg.			3.01	76.5	dense fog	R. M. Crawford.
Helena, Montana	25.79	655.1	30.22	767.6	— 9	—22.8	100	nw.	3	1.3			10 n		calm	0.03	0.8	light snow	N. C. Smith.
Henrietta, Texas																			J. P. Sherry.
Huron, Dakota	28 87	733.3	30.41	772.4	—24	—31.1		nw.	2	0.9		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.07	738.4	29.91	759.7	24	— 4.4	88	ne.	5	2.2			10 s			Inap.	Inap.	cloudy	J. F. Jirdinston.
Indianola, Texas	30.00	762 0	30.03	762.7	21.7	— 5.7	76	n.	25	11.2			10 s			0.09	2.3	cloudy	I. A. Reed.
Jacksboro, Texas	29.01	736.8	30.25	768 3	0	—17.8	39	n.	15	6.7			10 s			Inap.	Inap.	cloudy	D. J. Carr.
Jacksonville, Florida	30.13	765 3	30.18	766.6	60	15.6	100	calm	0	0			fg.			0	0	dense fog	J. W. Smith.
Keogh, Fort, Montana	27.42	696.5	30.11	764.4	—29	—33.9	100	calm	0	0		9 c	0	w.		0	0	cloudy	A. Schneider.
Keokuk, Iowa	29.47	748.5	30.17	766.3	— 6.0	—21.1	61	n.	10	4.5			10 n		n.	Inap.	Inap.	light snow	F. Z. Gosewisch.

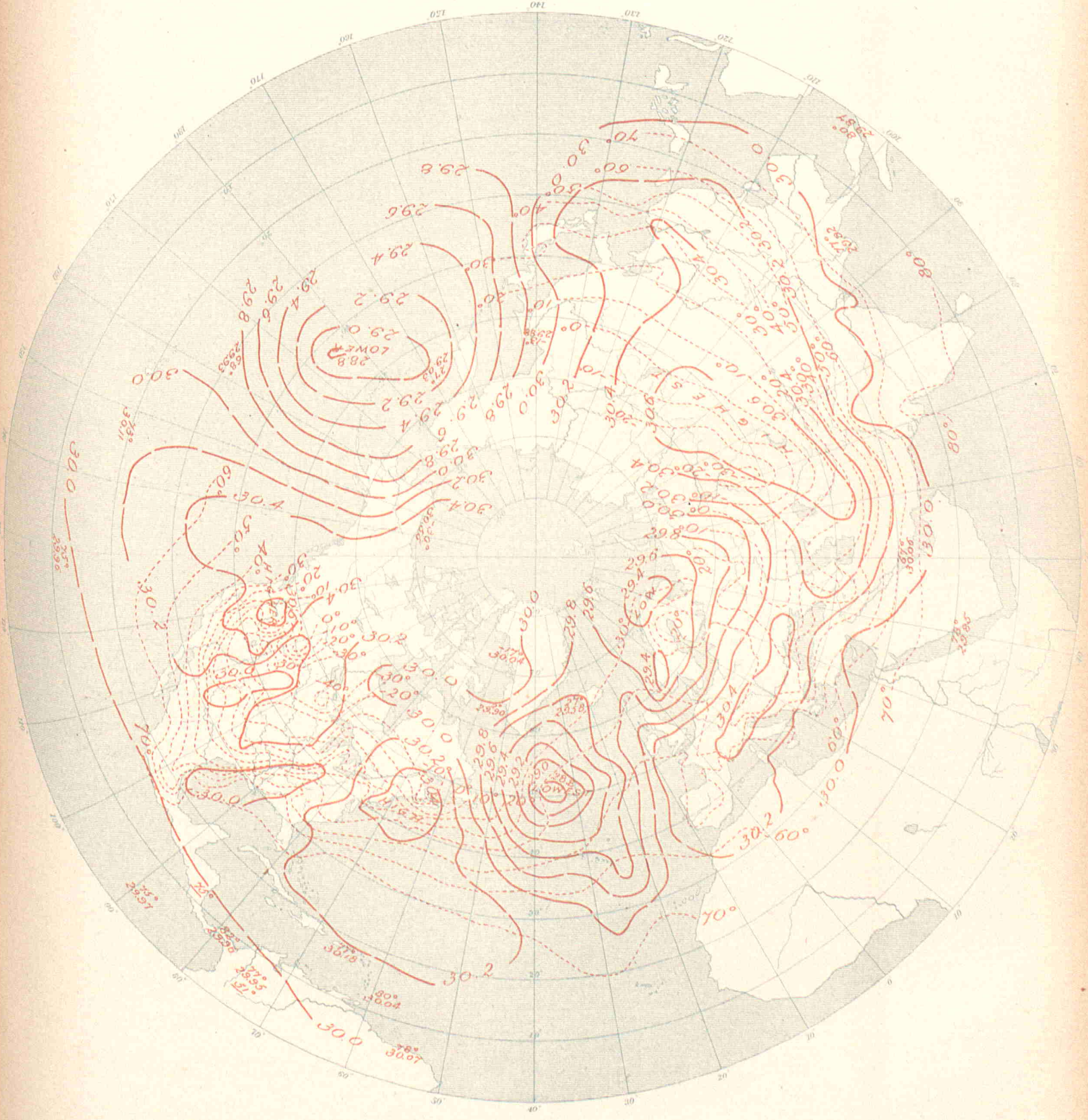
STATIONS	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative immidity.	Wind.			Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	Observers
								Direction.	Velocity.	Force.	Upper.	Lower.	Upper.	Lower.				
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.	
UNITED STATES.—Cont'd.																		
Key West, Florida	30.12	765.0	30.14	765.5	74.0	23.3	90	se.	7	3.1	.....	0	3 k	.....	se.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.26	768.6	30.28	769.1	38	3.3	100	n.	8	3.6	.....	.....	fg.	.....	.....	0.19	4.8	dense fog	H. Mc P. Baldwin.
Knoxville, Tennessee	28.96	735.6	30.04	763.0	48.4	9.1	100	ne.	6	2.7	.....	.....	10 n	.....	.....	0.83	21.1	light rain	J. A. Cody.
La Crosse, Wisconsin	29.38	746.2	30.22	767.6	—15	—26.1	100	n.	8	3.6	.....	.....	10 n	.....	.....	0.01	0.3	light snow	S. C. Emery.
Leavenworth, Kansas	29.35	745.5	30.31	769.9	—10	—23.3	72	nw.	16	7.2	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	A. W. Browne.
Lewiston, Idaho	29.82	757.4	30.69	779.5	0.0	—17.8	83	se.	1	0.4	.....	.....	10 n	.....	.....	0.05	1.3	light snow	W. Bell.
Little Rock, Arkansas	29.69	754.1	30.02	762.5	27	— 2.8	88	nw.	10	4.5	.....	.....	10 n	.....	.....	0.10	2.5	sleeting	W. U. Simons.
Los Angeles, California	29.84	757.9	30.24	768.1	35	1.7	44	ne.	9	4.0	.....	0	0	.....	.....	Inap.	Inap.	clear	T. S. Collins.
Louisville, Kentucky	29.38	746 2	29.98	761.5	36	2.2	100	n.	6	2.7	.....	.....	10 n	.....	.....	0.46	11.7	heavy rain	L. M Dey.
Lynchburg, Virginia	29.56	750.8	30.28	769.1	37	2.8	89	ne.	2	0.9	.....	.....	10 n	.....	ne.	0.05	1.3	light rain	Louis Duane.
Mackinaw City, Michigan	29.39	746.5	30.09	764.3	22.0	— 5.6	73	s.	8	3.6	.....	.....	10 s	.....	sw.	0.59	15.0	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.26	768.6	30.27	768.8	41.0	5.0	100	ne.	8	3.6	.....	.....	fg.	.....	.....	1.07	27.2	dense fog	William Daly.
Madison, Wisconsin	29.09	738.9	30.18	766.6	—11	—23.9	75	nw.	10	4.5	.....	.....	10 s	.....	nw.	0.01	0.3	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.31	642.9	29.86	758.4	2	—16.7	48	nw.	30	13.4	.....	.....	10 n	.....	nw.	0.03	0.8	light snow	F. Burke.
McKavett, Fort, Texas	27.79	705.9	30.18	766.6	8	—13.3	80	n.	12	5.4	.....	.....	10 s	.....	.....	Inap.	Inap.	cloudy	J. E. Thatcher.
Marquette, Michigan	29.27	743 4	30.05	763.3	8	—13.3	55	w.	6	2.7	.....	7 c	0	w.	.....	0.06	1.5	fair	J. Gilligan.
Memphis, Tennessee	29.59	751.6	29.95	760.7	34	1.1	100	n.	4	1.8	.....	.....	10 s	.....	.....	0.32	8.1	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.33	745.0	30.13	765.3	— 4	—20.0	100	nw.	4	1.8	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	W. Line.
Missoula, Fort, Montana	27.03	686.5	30.49	774 4	—20	—28.9	100	n.	1	0.4	.....	0	7 s	.....	w.	0	0	fair	J. H. Young.
Mobile, Alabama	29.96	761.0	30.00	762.0	63	17.2	97	s.	6	2.7	.....	.....	10s; fg	.....	s.	0.28	7.1	cloudy	C. A. Read.
Montgomery, Alabama	29.76	755.9	30.00	762.0	65.5	18.6	92	se.	6	2.7	.....	.....	10 n	.....	sw.	0.50	12.7	light rain	J. B. McLaughlin
Moorhead, Minnesota	29.23	742.4	30.34	770.6	—40	—40.0	100	sw.	6	2.7	.....	0	0	.....	.....	0.06	1.5	clear	H. Bessant.
Morgantown, W. Virginia	29.03	737.3	30.09	764.3	44.0	6.7	86	s.	8	3.6	.....	.....	10 n	.....	.....	0.17	4.3	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.81	604.8	30.44	773.2	10.0	—12.2	100	nw.	28	12.5	.....	.....	fg.	.....	nw.	0.14	3.6	dense fog	S. W. Beall.
Nashville, Tennessee	29.30	744.2	29.91	759.7	44.0	6.7	96	nw.	1	0.4	.....	.....	10 ks	.....	n.	0.29	7.4	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.30	769.6	30.42	772.7	25	— 3.9	88	ne.	8	3.6	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	J. H. Sherman.
New London, Connecticut	30.40	772.1	30.45	773.4	30	— 1.1	88	n.	4	1.8	.....	.....	10 s	.....	.....	0.10	2.5	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.90	759.4	29.96	761.0	71.0	21.7	87	s.	14	6.3	.....	.....	10 s	.....	s.	0.59	15.0	cloudy	L. Dunne.
Newport, Rhode Island	30.40	772.1	30.45	773.4	30.5	— 0.8	86	ne.	2	0.9	.....	.....	10s; fg	.....	.....	0.21	5.3	cloudy	W. McGillivray.
New York, New York	30.22	767.6	30.41	772.4	31	— 0.6	100	ne.	8	3.6	.....	.....	10n; fg	.....	.....	0.15	3.8	sleeting	J. B. Merrill.
Norfolk, Virginia	30.26	768.6	30.29	769 4	39	3.9	100	ne.	2	0.9	.....	.....	fg.	.....	.....	0.04	1.0	dense fog	Wm. Davis.
North Platte, Nebraska	27.16	689.9	30.28	769.1	—17.9	—27.7	76	n.	8	3.6	.....	0	0	.....	.....	0.06	1.5	clear	E. F. Brady.
Olympia, Washington T'y.	30.50	774.7	30.54	775.7	20.0	— 6.7	84	sw.	7	3.1	.....	.....	10 n	.....	.....	Inap.	Inap.	light snow	J. Dascomb.
Omaha, Nebraska	29.11	739.4	30.38	771.6	—16.3	—26.8	.....	n.	10	4.5	.....	.....	10 n	.....	.....	0.12	3.0	light snow	A. Pollak.
Ooglaamie, Alaska	30.53	775.4	30.55	776.0	—29.8	—34.3	100	nne.	13	5.8	.....	0	0	.....	.....	0	0	clear	P. H. Ray.
Oswego, New York	29.95	760.7	30.30	769.6	30.5	— 0.8	72	s.	4	1.8	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	J. G. Linsley.
Palestine, Texas	29.56	750.8	30.14	765.5	11.5	—11.4	80	nw.	6	2.7	.....	.....	10 n	.....	.....	1.10	27.9	sleeting	L. M. Pindell.
Pensacola, Florida	30.01	762.2	30.04	763.0	66.0	18.9	100	s.	2	0.9	.....	.....	fg.	.....	.....	0.51	13.0	dense fog	M. McGauran.
Philadelphia, Pa	30.30	769.6	30.40	772.1	33.5	0.8	100	ne.	8	3.6	.....	.....	10n; fg	.....	ne.	0.18	4.6	light rain	T. T. Townsend.
Pike's Peak, Colorado	16.92	429.8	29.62	752.3	—34	—36.7	100	sw.	.....	.....	7	0	1 s	.....	.....	0	0	clear	H. Hall.
Pioche, Nevada	24.04	610.6	30.24	768.1	—16	—26.7	73	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.26	743.2	30.11	764.8	38.5	3.6	96	ne.	4	1.8	.....	.....	10 n	.....	.....	0.05	1.3	light snow	W. A. Reid.
Poplar River, Montana	27.99	710.9	30.34	770.6	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	29.99	761 7	30.00	762.0	64.5	18.1	95	s.	11	4.9	.....	.....	10s; fg	.....	s.	1.05	26.7	cloudy	H. B. Boyer.
Port Huron, Michigan	29.42	747.3	30.15	765.8	19.0	— 7.2	91	sw.	2	0.9	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	W. O. Bailey.
Portland, Maine	30.42	772.7	30.47	773.9	25	— 3.9	80	n.	8	3.6	.....	.....	10 s	.....	n.	0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.51	774.9	30.58	776.7	15.0	— 9.4	76	e.	3	1.3	.....	.....	10 s	.....	e.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	44	6.7	100	ne.	.....	.....	1	.....	10s; fg	.....	.....	1.71	43.4	cloudy	F. S. Coburn.
Prescott, Arizona	24.74	628.4	30.12	765.0	— 7	—21.7	67	n.	4	1.8	.....	0	0	.....	.....	0.08	2.0	clear	W. H. Clendenon.
Provincetown, Mass	30.40	772.1	30.43	772.9	34	1.1	78	se.	5	2.2	.....	.....	10 s	.....	w.	0.10	2.5	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.15	765.8	30.16	766.1	70	21.1	92	se.	10	4 5	.....	5 c	1 s	.....	.....	Inap.	Inap.	fair	W. J. Evans.
Red Bluff, California	30.04	763.0	30.40	772.1	26	— 3.3	64	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	29.56	750.8	30.27	768.8	31	— 0.6	94	e.	9	4.0	.....	.....	10s; fg	.....	.....	0.06	1.5	cloudy	E. W. McGann
Roseburg, Oregon	29.95	760.7	30.52	775.2	14	—10.0	80	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	30.31	769 9	30.39	771.9	27.0	— 2.8	64	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.45	748.0	30.09	764.3	0.7	—17.4	79	nw.	12	5.4	.....	.....	10 n	.....	.....	0.02	0.5	light snow	J. H. Weber.
St. Michael, Fort, Alaska	29.72	754.9	29.76	755.9	35	1.7	100	se.	7	3.1	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.32	744.7	30.27	768.8	—17.0	—27.2	100	w.	2.0	0.9	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.26	743.2	30.24	768.1	—40	—40.0	100	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	O. B Dilley.
Salt Lake City, Utah	25.89	657.6	30.46	773.7	—15	—26.1	47	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.35	745.5	30.08	764.0	21.0	— 6.1	84	n.	8	3.6	.....	.....	10 s	.....	n.	0.01	0.3	cloudy	T. J. Kenan.
San Diego, California	30.17	766.3	30.24	768.1	36.5	2.5	57	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.39	746.5	30.11	764.8	36	2.2	79	se.	6	2.7	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.30	771.1	30.39	771.9	32.0	0.0	88	ne.	15	6.7	.....	.....	10 n	.....	ne.	0.43	10.9	light rain	B. A. Blundon.
San Francisco, California	30.29	769.4	30.36	771.1	37	2.8	49	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	22.86	579.1	29.85	758.2	7	—13.9	83	s.	4	1.8	.....	0	3 s	.....	s.	0.20	5.1	clear	H. U. Jones.
Savannah, Georgia	30.10	764.5	30.20	767.1	51	10.6	90	e.	8	3.6	.....	.....	fg	.....	.....	0.44	11.2	dense fog	H. W. Ford.
Shaw, Fort, Montana	26.29	667.8	30.15	765.8	— 3	—19.4	68	sw.	30	13.4	.....	2 cs	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.77	756.1	30.02	762 5	25	— 3.9	100	nw.	13	5.8	.....	.....	10 s	.....	nw.	0.82	20.8	threatening	E. N. Meekins.
Sill, Fort, Indian Territory	28.92	734.6	30.25	768.3	— 2.5	—19.2	37	.....	22	9.8	.....	.....	10 s	.....	n.	0.01	0.3	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.07	611.4	29.93	760.2	12.5	—10.8	82	nw.	5	2.2	.....	0	0	.....	.....	0.04	16.3	clear	N. D. Lane.
Sitka, Alaska	30.35	770.9	30.42	772.7	37.6	3.1	89	e.	4	1.8	.....	.....	10 s	.....	e.	0.17	4.3	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.62	752.3	30.12	765.0	10.0	—12.2	80	w.	8	3.6	.....	.....	10 n	.....	.....	0.01	0.3	light snow	J. B. Campbell.
Smithville, North Carolina	30.21	767.3	30.25	768.3	45	7.2	100	ne.	8	3.6	.....	.....	10s; fg	.....	.....	0.46	11.7	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.44	722 4	30.58	776.7	— 5	—20.6	71	ne.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	H. Clifford.
Springfield, Illinois	29.37	746.0	30.10	764.5	3	—16.1	72	n	11	4.9	.....	.....	10 n	.....	.....	Inap.	Inap.	light snow	T. B. Jennings.
Springfield, Missouri	28.56	725.4	30.08	764.0	— 1	—18.3	83	nw.	16	7.2	.....	.....	10 n	.....	.....	0.10	2.5	light snow	J. H. Bryce.
Starkville, Miss.	29.41	747.0	29.91	759.7	49	9.4	100	calm	0	0	.....	.....	10 n	.....	.....	1.36	34.5	light rain	O. Dill.
Stevenson, Fort, Dakota	28.18	715 8	30.24	768.1	—35	—37.2	100	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	26.94	684.3	30.08	764.0	12	—11.1	73	n.	8	3.6	.....	2 ck	0	nw.	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass	30.41	772.4	30.47	773 9	31.0	— 0.6	88	e.	4	1.8	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.24	691.9	30.07	763.8	25	— 3.9	64	nw.	.....	.....	2	0	0	.....	.....	c.18	4.6	clear	J. T. Fitzgerald.
Toledo, Ohio	29.37	746.0	30.11	764.8	29	— 1.7	77	ne.	7	3.1	.....	.....	10 n	.....	.....	Inap.	Inap.	light snow	A. Buell.
Tucson, Arizona	27.70	703.6	30.20	767.1	24	— 4.4	53	nw.	12	5.4	.....	0	0	.....	.....	0.18	4.6	clear	J. L. Whiteside.
Umatilla, Oregon	30.31	769.9	30.70	779.8	8	—13.3	76	s.	3	1.3	.....	2 c	3 s	.....	.....	0	0	fair	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	8.4	—13.1	58	n.	.....	.....	4	0	c	.....	.....	0.03	0.8	clear	D. Brooks.
Vicksburg, Mississippi	29.66	753.4	29.94	760.5	48.0	8.9	93	calm	0	0	.....	.....	10n; fg	.....	.....	0.30	7.6	light rain	James Kenealy.
Visalia, California	29.99	761.7	30.38	771.6	26.2	— 3.2	95	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.28	616.7	30.06	763.5	—34.0	—36.7	.....	w.	1	0.4	.....	0	0	.....	.....	0.01	0.3	clear	T. M. Ambler.
Washington, D. C.	30.25	768.3	30.37	771.4	32.3	0.2	100	ne.	4	1.8	.....	.....	10s; fg	.....	ne.	0.23	5.8	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.04	661.4	30.18	766.6	—21	—29.4	100	w.	0	2.7	.....	0	2 s	.....	.....	Inap.	Inap.	clear	F. H. Brandenburg.
Williamsport, Pa	29.70	754.4	30.33	770.4	30.5	— 0.8	88	e.	3	1.3	.....	.....	10 s	.....	.....	0.25	6.3	threatening	B. F. Hough.
Wilmington, N. Carolina	30.18	766.6	30.24	768.1	45	7.2	100	e.	4	1.8	.....	.....	fg.	.....	.....	0.58	14.7	dense fog	Samuel A. Haney.
Winnemucca, Nevada	25.90	657.8	30.44	773.2	—15	—26.1	69	ne.	0	2.7	.....	0	4 s	.....	nw.	0	0	fair	J. Grover.
Yankton, Dakota	28.97	735.6	30.38	771.6	—10	—20.7	100	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Attfield.
Yuma, Arizona	30.26	768.6	30.41	772.4	27.0	— 2.8	46	n.	22	9.8	.....	0	0	.....	.....	Inap.	Inap.	clear	W. S. Delano.
Sub-series.																		
Bogota, U. S. Columbia	22.03	559.6	.....	.....	51.0	10.6	81	calm	0	0	.....	2 ck	5ks; s	w.	nw.	0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.12	765.0	30.13	765 3	70	21.1	87	calm	0	0	.....	0	0	.....	.....	0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	78	25.6	83	e.	.....	.....	3	5 ck	7 ks	e.	.....	0.030	0.8	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Colombia	29.39	746.5	29.95	760.7	77	25.0	89	calm	.....	.....	0	0	1 ks	.....	calm	0	0	clear	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75.1	23.9	92	e.	.....	.....	2	0	5 ks	.....	e.	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.20	0.6	.....	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Walloe.
York Factory, B. A.	29.85	758.2	29 92	760.0	—28.0	—33.3	.....	s.	16	7.2	.....	3 k	3 s	s.	s.	0	0	threatening	Forrest ne & Wood

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
British Naval.																	
H. M. S. Amethyst, Port Stanley, Falkland Island†	29.61	752.1	49.2	9.6	70	sw.			2	2	s.						d. clouds.
H. M. S. Audacious, Hong-Kong, China	30.15	765.8	58	14.4	81	calm			0	1	ne.						blue sky.
H. M. S. Boadicea, St Helena Island, Africa	30.07	763.8				ese.			3	2							d. clouds.
H. M. S. Champion, Singapore, Malay peninsula	29.87	758.7	80	26.7	95	ne.			2	3	ne.				1	ne	d. clouds.
H. M. S. Cleopatra, N. 31° 15′ E. 121° 29′	30.38	771.6	34	1.1	84	calm			0	0							blue sky.
H. M. S. Comus, N. 4° 31′, W. 89° 40′	29.97	761.2	75	23.9	95	se.			1	8	se.						d. clouds.
H. M. S. Constance, S. 10° 10′ W. 32° 20′	30.03	762.7	84	28.9		ene.			3	3					1	e.	d. clouds.
H. M. S. Curacoa, Yokohama, Japan			34.5	1.4	52	nnw.			2-3	0							blue sky.
H. M. S. Crocodile N. 26° 10′ E. 35° 00′	29.91	759.7	70	21.1	79	nw.			1	2					sm'h		blue sky.
H. M. Dock Yard, Bermuda, W. I.	30.21	767.3	67	19.4	94	sw.			1-2	8	sw.						d. clouds.
H. M. S. Dryad, N. 16° 40′, E. 96° 10′	29.92	760.0	77	25.0		sse.			1	4	ne.						d. clouds.
H. M. S. Eclipse, N. 16° 59′, E. 72° 41′	29.81	757.2	81	27.2		wnw.			1-2	1					1	sw.	blue sky.
H. M. S. Espeigle, S. 34° 18′ E. 151° 18′	29.93	760.2	76	24.4	85	n.			4	8	w.				3	nne.	d. clouds.
H. M. S. Fawn, S. 19° 48′, W. 0° 40′	30.04	763.0	75	23.9	88	se.			1	8	nw.				1	se.	d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.30	769.6	39	3.9	81	calm			0	2							blue sky.
H. M. S. Fox Hound, Sarawak, Borneo	29.89	759.2	74.5	23.6		calm			0	3	s.						d. clouds.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.97	761.2	63	17.2	61	var.			1	0							blue sky.
H. M. S. Heroine, S. 21° 31′ W. 35° 45′	30.06	763.5	80	26.7	85	nne.			2	4					sm'h		d. clouds.
H. M. S. Himalaya, N. 29° 58′, E. 32° 54′			66	18.9	90	ssw.			2-6	2							blue sky.
H. M. S. Iron Duke, N. 18° 35′, E. 39° 50′	29.85	758.2	78	25.6	82	ese.			1	3							d. clouds.
H. M. S. Kingfisher, Callao Bay, Peru	29.96	761.0	68	20.0		se.			1	10							foggy.
H. M. S. Lark, S. 34° 50′, E. 174° 49′	30.29	769.4	70.3	21.3	87	wsw.			2	8					sm'h		d. clouds.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.30	769.6	34.5	1.4	90	nw.			1	9							d. clouds.
H. M. S. Monarch, Port Said, Egypt	29.92	760.0	65	18.3	73	nnw.			3	5							d. clouds.
H. M. S. Mutine, N. 10° 37′, W. 130° 27′	29.96	761.0	74.5	23.6		nne.			6	9					4	nne.	d. clouds.
H. M. S. Rocket, Valdivia, Chili	30.26	768.6	55	12.8	?	calm			0	3							d. clouds.
H. M. S. Serapis, Bombay, India	29.86	758.4	80	26.7	58	w.			2	1							d. clouds.
H. M. S. Superb N. 36° 50′, E. 28° 19′	29.96	761.0	61	16.1	66	calm			0	5	nnw.						d. clouds.
H. M. S. Swiftsure, Bay of Payta, Peru	30.00	762.0	67	19.4	94	sse.			1	10					1	s.	overcast
H. M. S. Sylvia, Borja Bay, Patagonia	29.27	743.4	49.7	9.8	86	wnw.			5-7	10							misty.
H. M. S. Tourmaline, Bombay, India	29.87	758.7				wnw.			1	0							blue sky.
H. M. S. Woodlark, Bushire, Persia	29.96	761.0	66.5	19.2	64	w.			1-2	6	nw.						misty.
Portuguese Naval.																	
Tamega, Macao, China	30.23	767.9	62.6	17.0	80	ssw.			2	0			0	0			blue sky.
United States Naval.																	
Navy Yard, Pensacola, Fla*	30.05	763.3	66	18.9	94	se.	2	0.9		10		se.	0.7	18.			foggy.
Navy Yard, Portsmouth, N. H*	30.44	773.2	24	— 4.4	?	n.	2	0.9		10		n.	0	0			cloudy.
Naval Hospital, Yokohama, Japan*	29.92	760.0	30	— 1.1	41	nw.			1	0			0	0			clear.
Adams, Sitka, Alaska†	30.43	772.9	37	2 8	90	ene.			2	10							drizzling.
Alaska, Mare Island, Cal	30.30	769.6	34	1.1	52	se.			2	2		se.	0	0			fair.
Alliance, N. 18° 46′, W. 80° 39′	30.11	764.8	79	26.1	86	ene.			4	5			0	0	sm'h		fair.
Brooklyn, Keel Point, Patagonia*	29.53	750.0	56	13.3	87	nnw.	7	3.1		10		se.	0	0	sm'h		cloudy.
Colorado, New York, N. Y.	30.48	774.2	32	0.0	100	ne.	4	1.8		10							raining.
Enterprise, N. 30° 26′, W. 40° 35′*	30.18	766.6	68	20.0	84	n.			4	5		n.			sm'h		fair.
Essex, Callao, Peru	29.91	750.7	68	20.0	84	s.			1	10							overcast.
Franklin, Norfolk, Va	30.26	768.6	39	3.9	90	ne.	2	0.9		10			0.03	0.8			foggy.
Galena, Montevideo, Uruguay*	29.86	758.4	67	19.4	90	ssw.			6	5		ssw.			r'gh	ssw.	squally.
Hartford, Callao, Peru*	29.88	758.9	68	20.0	94	sse.			1	10		se.			sm'h	s.	cloudy.
Independence, Mare Island, Cal	30.35	770.9	31	— 0.6	?	e.			5	0			0	0			clear.
Iroquois, Callao, Peru	29.95	760.7	68	20.0	94	calm			0	0							foggy.
Jamestown, N. 40° 23′, W. 68° 05′	30.33	770.4	43	6.1	83	ene.			5	10					sm'h		cloudy.
Juniata, Gibraltar, Mediterranean*	30.28	769.1	57	13.9	100	ssw.			3	8		e.	sli't	sli't			cloudy.
Kearsarge, N. 11° 43′, W. 63° 18′	30.03	762.7	78	25.6	95	ene.			3	8		ene.			sm'h		cloudy.
Lackawanna, N. 18° 53′, W. 148° 15′*	30.11	764.8	73	22.8	81	e.			5	8		e.			mod.	e.	cloudy.
Lancaster, Villefranche, France			57	13.9	57	s.			5	0							clear
Michigan, Erie, Pennsylvania	30.34	770.6	42	5.6	100	s.			5	10		ne.					cloudy.
Minnesota, New York, N. Y.	30.43	772.9	30	— 1.1	100	ne.	1	0.4		10							foggy.
Monocacy, Nagasaki, Japan	30.30	769.6	39	3.9	90	ene.			2	0							misty.
New Hampshire, Newport, R. I.	30.37	771.4	34	1.1	100	n.			2	10		calm			sm'h		cloudy.
Nipsic, Lisbon, Portugal.	30.25	768.3	57	13.9	62	e.			3	0							clear.
Onward. Callao, Peru*†	30.07	763.8	66	18.9	94	sse.			2	10		n.					cloudy.
Palos, Tientsin, China*	30.25	768.3	21	— 6.1	100	calm			0	0							clear.
Pensacola, S. 4° 47′ W. 81° 17′*	29.84	757.9	73	22.8	81	s.			3	8		s.	0	0	sm'h		fair.
Portsmouth, Boston, Mass.	30.46	773 7	26	— 3.3	?	nnw.			1	10							cloudy.
Powhatan, Boston, Mass	30.44	773.2	25	— 3.9	88	nw.			1	10							cloudy.
Quinnebaug, Genoa, Italy	30.42	772 7	52	11.1	86	nne.			4	2		calm					clear.
Ranger, N. 25° 38′, W. 113° 18′ *	30.08	764.0	58	14.4	70	n.			5	10		n.	0	0	sm'h	n.	cloudy.
Richmond, Mouth Canton River, China*	30.12	765.0	62	16.7	61	calm			0	0			0	0			hazy.
Saratoga, New York, N. Y	30.41	772.4	29	— 1.7	89	ne.			3	10		ne.	0	0			overcast.
St. Louis, League Island, Pa	30.39	771.9	31	— 0.6	100	ne.			3	10			0.17	4.3			drizzling.
Tennessee, Basse-Terre, St. Kitts, W. I*	30.15	765.8	82	27.8	78	ene.	14	6.3		2			0.2	5.			fair.
Vandalia, Samana Bay, San Domingo, W. I*	30.17	766.3	77	25.0	77	ne.			2	8		e.					fair.
Wabash, Boston, Mass	30.45	773.4	25	— 3.9	88	n.	2	0.9		10		n.	0	0			cloudy.
Wachusetts, Mare Island, Cal	30.27	768.8	37	2.8	90	nw.			3	0							clear.
Wyandotte, Washington, D. C	30.19	766.8	34	1.1	?	ne.			1	10		ne.	1.1	28.			raining.
Yantic, N. 11° 47′ W. 82° 57′	30.07	763.8	77	25.0	95	ene.			4	2					mod	n.	fair.
Merchant Marine.																	
S. S. Grecian, Harve, France*	30.30	769.6	51	10.6	93	e.			1	10		e.	0	0			cloudy.
S. S. Nova Scotian, N. 54° 54′ W. 20° 01′	29.60	751.8	47	8.3		sse.			4	10		s.			mod.	sse.	drizzling.
S. S. Scandinavian, N. 50° 03′, W. 38° 25	28.73	729.7	42	5.6		nw.			7	10		nw.	sh'rs	sh'rs	high	nnw.	showery.
S. S. British Crown, N. 42° 30′, W. 44° 47′†	29.71	754.6	34	1.1		wnw.			9	8		wnw.	3 h'r	3 h'r	h'vy	wnw.	squally.
S. S. British Prince, N. 47° 18, W. 38° 34′†	29.24	742.7	38	3.3		wnw.			7	5		wnw.	snow	snow	h'vy	wnw.	squally.
S. S. Indiana, N. 48° 31′, W. 35° 20′			43	6.1	92	w.			8	10		w.	rain	rain	h'vy	w.	squally.
S. S. Lord Clive, Philadelphia, Pa	30.41	772.4				se.			2	10			rain	rain			rainy.
S. S. Lord Gough, Liverpool, Eng	30.13	765.3	50	10.0		ssw.			3	2?		ssw.	o	o			cloudy.?
S. S. Ohio, N. 39° 44′, W. 71° 33′			43	6.1	92	ene.			5	10					mod.	ene.	cloudy.
S. S. Pennsylvania, N. 39° 38′ W. 70° 40′†	30.30	769.6	51	10.6	100	ne.			3	10		e.	o	o	sm'h	e.	cloudy.
S. S. Stella, N. 41° 16′ W. 50° 27′	30.01	762.2	39	3.9		nnw.			6	7		nnw.	o	o	6	nw.	squally.
S. S. Anchoria, N. 54° 29′, W. 14° 18′?†	29.66	753.4				s.			6	1		s.	o	o	h'vy	sw.	cloudy.
S. S. Bolivia, N. 55° 23′ W. 5° 07′	30.23	767.8	46	7.8	77	wsw.			4	8			12 h'r	12 h'r	r'gh		cloudy.
S. S. Dorian, N 37° 00′, W. 1° 33′*	30.20	767.1				e.			5	4		e.	o	o			fine.
S. S. Ailsa, N. 27° 40′, W. 73° 51′	30.30	769.6	74	23.3	90	s.			4	5		se.	2 h'r	2 h'r	mod.	e.	fair.
S. S. Antilla, Kingston, Jamaica, W. I†	30.23	767.8				ne.			1	1		ne.					fine.
S. S. Ambrose, Manaos, Brazil†	30.02	762.5	80	26.7					9				3 h'r	3 h'r			cloudy.
S. S. Auckland, S. 44° 49′, W. 38° 53′	29.79	756.7	55	12.8	93	nnw.			5	7							blue sky.
S. S. Caldew, S. 29° 05′, E. 45° 52′	29.54	750.3	75.8	24.3	100	nnw.			9	10							overcast.
S. S. City of Agra, S. 32° 32′, W. 30° 51′	30.11	764.8	73	22.8	81	ssw.			2	2							d. clouds.
S. S. Gordon Castle, N. 47° 08′, W. 6° 10′	30.26	768.6	55.5	13.1	87	wsw.			1-2	10					high	nw.	overcast.
S. S. Scotia, N. 27° 14′ E. 34° 19′	29.92	760.0	73	22.8	39	nw.			4	1							blue sky.
S. S. Mexico, N. 23° 16′ E. 110° 31′ †	30.08	764.0	64	17.8	78	n.			4	3		n.			mod.	w.	
S. S. Bothnia, N. 47° 35′, W. 36° 53′	29.00	736.6	45	7.2	92	wnw.			8	8		w.	snow	snow	r'gh	w.	squally.
S. S. Marathon, Boston, Mass	30.45	773.4	26	— 3.3		nne.			2	10		ne.	snow	snow			cloudy.
S. S. Parthia, N. 41° 10′, W. 65° 47′	30.56	776.2	39	3.9	91	nne.			3	7		wnw.	1 h'r	1 h'r	sm'h	n	drizzling.
S. S. Pavonia, N. 41° 28′, W. 55° 30′	30.21	767.3	40	4.4	91	nnw.			6	7		nnw.	o	o	mod.	nnw.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																		
S. S. Rhinwidda, N. 46° 02′, W. 43° 20′	.....	.....	29	—1.7	.....	wnw.	.....	.....	9	.....	8	.....	wnw.	.....	.....	r'gh	.....	stormy.
S. S. France, N. 47° 17′, W. 40° 38′ †	29.19	741.4	.....	.....	.....	wnw.	.....	.....	8	cs	0	wnw.	.....	.....	.....	h'vy	w.	covered.
S. S. Labrador, English Channel *†	30.32	770.1	50	10.0	.....	sw.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Perire, N. 49° 54′, W. 5° 35′	30.21	767.3	51.8	11	.....	sw.	.....	.....	2	.....	10	.....	sw.	rain	rain	sm'h	.....	misty.
S. S. Ville de Marseilles, N. 23° 21′, W. 53° 45′ *†	30.25	768.3	73	22.8	.....	ne.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	ne.	clear.
S. S. Abyssinia, N. 43° 17′, W. 55° 20′	30.26	768.6	34	1.1	79	ne.	.....	.....	5	.....	7	.....	nw.	.....	.....	cross	nw.	sleeting.
S. S. Bohemia, Hamburg, Germany *†	30.10	764.5	.....	.....	.....	wsw.	.....	.....	7	.....	10	.....	.....	0	0	.....	.....	squally.
S. S. Frisia, N. 47° 35′, W. 38° 05′	29.09	738.9	40	4.4	.....	w.	.....	.....	9	.....	9	.....	w.	rain	rain	h'vy	w.	cloudy.
S. S. Rugia, New York, N. Y.	30.39	771.9	30	—1.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S. S. Silesia, Hamburg, Germany †	30.19	766.8	41.2	5.1	.....	wsw.	.....	.....	4	.....	4?	.....	w.	0	0	.....	.....	cloudy.
S. S. Vandalia, Hamburg, Germany	.....	.....	37.0	2.8	.....	wnw.	.....	.....	3	.....	8	.....	nw.	.....	.....	.....	.....	cloudy.
S. S. Wieland, N. 41° 50′, W. 63° 42′	30.50	774.7	.....	.....	.....	ene.	.....	.....	3	.....	2	.....	ene.	0	0	sm'h	ene.	fine.
S. S. Archimedes, Rio de Janeiro	29.87	758.7	.....	.....	.....	calm	.....	.....	0	.....	4	.....	e.	2 h'r	2 h'r	.....	.....	fine.
S. S. Hevellius, N. 14° —′, W. 25° 30′ †	30.14	765.5	74	23.3	.....	ne.	.....	.....	6	.....	7?	.....	e.	0	0	sm'h	.....	clear.?
S. S. Ptolemy, S. 2° 37′, W. 30° 54′	30.02	762.5	81.2	27.3	79	sse.	.....	.....	3	c	4 k	se.	.....	0	0	.....	se.	foggy.
S. S. Sirius, N. 37° 50′, W. 72° 20′ *	30.16	766.1	.....	.....	.....	ene.	.....	.....	5	.....	10	.....	ne.	6 h'r	6 h'r	short	n.	overcast.
S. S. Bulgarian, N. 51° 22′, W. 21° 11′ *	29.40	746.7	.....	.....	.....	sse.	.....	.....	.....	.....	10	.....	s.	rain	rain	high	s.	.....
S. S. Virginian, N. 50° 00′, W. 29° 30′ *	29.09	738.9	48	8.9	.....	ssw.	.....	.....	7	.....	6	.....	sw.	1 h'r	1 h'r	h'vy	w.	squally.
S. S. Colorado, N. 29° 36′, W. 93° 09′ †	29.88	758.9	61	16.1	.....	se.	.....	.....	4	.....	10	.....	se.	.....	.....	small	sse.	cloudy.
S. S. Rio Grande, Matanzas, Fla †	30.15	765.8	75	23.9	.....	ese.	.....	.....	1	.....	6	.....	se.	0	0	.....	.....	foggy.
S. S. Archimede, Palermo, Sicily †	30.11	764.8	54	12.2	74	nne.	.....	.....	3	.....	4	.....	nne.	3 h'r	3 h'r	.....	.....	fair.
S. S. Alleghany, N. 38° 46′, W. 75° —′ †	30.34	770.6	42	5.6	.....	ne.	.....	.....	4	.....	10	.....	.....	h'vy	h'vy	.....	e.	stormy.
S. S. Brooklyn, N 51° 27′ W. 14° 29′	.....	.....	52	11.1	.....	sse.	.....	.....	4	.....	.....	.....	s.	0	0	short	s.	overcast.
S. S. Chalmette, New York, N. Y †	30.34	770.6	34	1.1	.....	nne.	.....	.....	4	.....	10	.....	.....	snow	snow	.....	.....	foggy.
S. S. New York, N. 31° 42′ W. 80° 32′ †	30.19	766.8	66	18.9	.....	calm	.....	.....	0	.....	7	.....	ssw.	0	0	mod.	e.	cloudy.
S. S. Denmark, N. 48° 53′, W. 19° 23′ †	29.68	753.9	56	13.3	.....	sse.	.....	.....	7	.....	10	.....	sse.	sh'rs	sh'rs	mod.	se.	hazy.
S. S. Egypt, N. 51° 21′, W 13° 47′ *†	29.95	760.7	.....	.....	.....	sse.	.....	.....	5	.....	10	.....	sse.	3 h'r	3 h'r	long	sw.	cloudy.
S. S. Erin, Liverpool, Eng *†	30.35	770.9	43	6.1	.....	sse.	.....	.....	7	.....	10	.....	s.	0	0	.....	.....	.....
S. S. Helvetia, Liverpool, Eng	30.29	769.4	43	6.1	.....	w.	.....	.....	5	.....	10	.....	w.	4 h'r	4 h'r	.....	.....	overcast.
S. S. Holland, N. 47° 15′, W. 35° 15′	29.02	737.1	43	6.1	.....	wsw.	.....	.....	8	.....	8	.....	wsw.	hail	hail	h'vy	wsw.	hailing.
S. S. The Queen, N. 47° 20′, W. 32° 20′ *†	29.11	739.4	44	6.7	.....	wsw.	.....	.....	6	.....	5	.....	w.	rain	rain	long	w.	squally.
S. S. Santiago, N. 26° 30′ W. 74° 10′	30.22	767.6	75	23.9	90	ese.	.....	.....	3	.....	3	.....	e.	0	0	sm'h	.....	fine.
S. S. City of Merida, N. 18° 42′, W 93° 00′ †	29.93	760.2	77.0	25.0	.....	ese.	.....	.....	3	.....	2	.....	e.	0	0	mod	e.	fine.
S. S. City of Washington, Havana, Cuba, W.I †	30.23	767.8	78	25.6	.....	e.	.....	.....	4	.....	2	.....	e.	0	0	sm'h	.....	fine.
S. S. Alpin, N. 27° 00′, W. 74° 10′	30.12	765.0	68	20.0	.....	e.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	wsw.	rain & fog.
S. S. America, N. 46° 59′, W. 37° 05′ *	29.14	740.1	45.0	7.2	92	nw.	.....	.....	6–7	.....	8	.....	wnw.	hail	hail	hv'y	wnw.	squally.
S. S. Braunschweig, Buenos, Ayres, Argentine Rep	29.89	759.2	85.0	29.4	79	n.	.....	.....	5	.....	2	.....	n.	0	0	light	.....	clear.
S. S. Donau, N. 48° 09′, W. 29° 46′	29.23	742.4	.....	.....	.....	sw.	.....	.....	6	.....	8	.....	wsw.	rain	rain	h'vy	sw.	squally.
S. S. Hohenstaufen, S. 11° 56′, W. 36° 50′	29.99	761.7	86.0	30.0	.....	calm	.....	.....	0	.....	3	.....	e.	0	0	sm'h	.....	squally.
S. S. Hohenzollern, N. 40° 30′, W. 12° 50′	30.26	768.6	.....	.....	.....	sw.	.....	.....	2	.....	2	.....	sw.	.....	.....	.....	.....	fair.
S. S. Main, N. 43° 21′, W. 51° 18′	30.07	763.8	27	—2.8	.....	nw.	.....	.....	6	.....	9	.....	nnw.	snow	snow	cross	nw.	fair.
S. S. Salier, N. 50° 50′, W. 27° 47′	29.00	736.6	48	8.9	.....	sw.	.....	.....	6	.....	5	.....	sw.	rain	rain	h'vy	sw.	fair.
S. S. Strassburg, N. 25° 24′, W. 20° 46′	30.11	764.8	74.0	23.3	59	n.	.....	.....	3	.....	3	.....	n.	0	0	sm'h	nne.	fair.
S. S. Arabic, N. 37° 29′, W. 131° 19′ *†	30.50	774.7	53	11.7	93	nw.	.....	.....	3	.....	2	.....	wnw.	0	0	mod.	nw.	fine.
S. S. Belgic, N. 34° 51′, E. 147° 49′ *†	29.58	751.3	52	11.1	60	nw.	.....	.....	0	.....	8	.....	nw.	0	0	h'vy	w.	cloudy.
S. S. Coptic, N. 42° 21′, W. 174° 32′	28 79	731 3	48.5	9.2	89	var.	.....	.....	2	.....	10	.....	se.	8 h'r	8 h'r	mod.	con.	raining.
S. S. Gaelic, N. 28° 00′, E. 123° 47′	30.29	769.4	53	11.7	93	n.	.....	.....	4	.....	5	.....	nne.	0	0	.....	n.	clear.
S. S. Oceanic, San Francisco, Cal †	30.39	771.9	47	8.3	62	s.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. City of Augusta, Savannah, Ga †	30.17	766.3	.....	.....	.....	sse.	.....	.....	0	.....	10	.....	.....	0	0	.....	.....	foggy.
S. S. Willamette, Seattle, Wash. Ter †	30.58	776.7	21	—6.1	100	se.	.....	.....	2	.....	8	.....	se.	0	0	.....	.....	cloudy.
S. S. Oregon, San Francisco, Calf	30.27	768.8	36	2.2	90	ene.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Ancon, N. 34° 40′, W. 120° 43′ †	30.13	765.3	38	3.3	54	ne.	.....	.....	4	.....	0	.....	.....	.....	.....	r'gh	nw.	clear.
S. S. City of Chester, Eureka, Cal * †	30.34	770.6	36	2.2	40	nw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Dakota, Port Townsend, Wash Ter	.....	.....	18	— 7.8	84	e.	.....	.....	4	.....	10	.....	e.	snow	snow	sm'h	.....	cloudy.
S. S. G. W. Elder, San Francisco, Cal †	30.29	769.4	36	2.2	40	e.	.....	.....	1	.....	.....	.....	.....	0	0	.....	.....	clear.
S. S. Queen of the Pacific, San Francisco, Cal †	30.23	767.8	.....	.....	.....	se.	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. State of California, Astoria, Oregon	.....	.....	30	— 1.1	89	nnw	.....	.....	3	.....	10	.....	nnw.	.....	.....	.....	.....	snowing.
S. S. Victoria, San Francisco, Cal * †	30.33	770.4	34	1.1	.....	sse.	.....	.....	3	.....	5	.....	ssw.	.....	.....	.....	.....	fair.
S. S. Australia, N. 30° 27′, W. 141° 14′	.....	.....	65	18.3	78	s.	.....	.....	4	.....	10	.....	ssw.	1 h'r	1 h'r	long	nw.	misty.
S. S. City of New York, N 32° 45′, W. 138° 10′ †	30.41	772.4	62	16.7	72	e.	.....	.....	4	.....	8	.....	e.	1 h'r	1 h'r	mod	w.	cloudy.
S. S. City of Pekin, N. 29° 49′ W. 164° 06′ †	29.93	760.2	68	20.0	95	sw.	.....	.....	6	.....	10	.....	sw.	.....	.....	r'gh	sw.	cloudy.
S. S. City of Rio de Janeiro N. 23° 09′, W. 106° 30′	.....	.....	70	21.1	70	e.	.....	.....	2	.....	9	.....	w.	0	0	light	nw.	cloudy.
S. S. City of Sydney, Sydney, N. S. W †	30.05	763.3	79	26.1	70	sw.	.....	.....	5	.....	2	.....	sw.	0	0	sm'h	.....	fair.
S. S. City of Tokei, N. 29° 09′, E. 126° 51′ †	30.32	770.1	54	12.2	55	nne.	.....	.....	3	.....	5?	.....	nw.	0	0	small	ne.	clear?
S. S. Colima, N. 34° 39′ W. 120° 50′ †	30.19	766.8	43	6.1	75	nw.	.....	.....	5–6	.....	0	.....	.....	0	0	r'gh	nw.	clear.
S. S. Colon, Aspinwall, Panama †	29.96	761.0	82	27.8	.....	nne.	.....	.....	2	.....	3	.....	ne.	0	0	sm'h	.....	fair.
S. S. Grenada, N. 8° 36′, W. 79° 30′ †	29.89	759.2	78	25.6	82	nnw.	.....	.....	5	.....	0	.....	.....	0	0	sm'h	nnw.	clear.
S. S. San José, Acapulco, Mexico * †	29.98	761.5	.....	.....	.....	nw.	.....	.....	2	.....	2 k	.....	wnw.	0	0	mod.	ssw.	.....
S. S. Zealandia, Sydney, N. S. W	29.86	758.4	78	25.6	91	calm	.....	.....	0	.....	0	.....	s.	.....	.....	.....	.....	fine.
S. S. Muriel, St. Kitts, W. I *	30.14	765.5	79	26.1	.....	ene.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Caracas, Puerto Cabello, Venezuela †	30.12	765.0	76	24.4	88	sw.	.....	.....	1	.....	2	.....	.....	0	0	mod.	n.	fine.
S. S. Claudius, Colon, U. S. C †	30.04	763.0	80.0	26.7	87	n.	.....	.....	1	.....	4	.....	n.	0	0	long	n.	fair.
S. S. Belgenland, N. 48° 29′, W. 33° 30′ †	28.97	735.8	45	7.2	68	wsw.	.....	.....	9	.....	8	.....	w.	2½ h'r	2½ h'r	h'vy	var.	squally.
S. S. Nederland, N. 50° 04′ W. 33° 48′ †	28.75	730.2	52	11.1	93	ssw.	.....	.....	9	.....	10	.....	ssw.	8 h'r	8 h'r	h'vy	sw.	overcast.
S. S. Rhyniand, Jersey City, N. J †	30.45	773.4	40	4.4	82	ne.	.....	.....	3	.....	10	.....	.....	.....	.....	con.	s.	dense fog.
S. S. Waesland, Antwerp, Belgium	30.31	769.9	47	8.3	.....	ssw.	.....	.....	4	.....	10	.....	sw.	shr's	shr's	.....	.....	cloudy.
S. S. Leerdam, N. 50° 12′, W. 27° 31′ *	29.13	739.9	49	9.4	85	sw.	.....	.....	6	.....	5	.....	ssw.	6 h'r	6 h'r	r'gh	ssw.	squally.
S. S. Maas, Rotterdam, Holland	30.36	771.1	41	5.0	.....	w.	.....	.....	3	.....	8	.....	s.	8 h'r	8 h'r	.....	.....	rainy.
S. S. W. A. Scholten, N. 42° 03′, W. 62° 34′	.....	.....	34.8	1.6	79	nne.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	.....
S. S. State of Florida, New York, N. Y	30.23	767.8	41	5.0	.....	e.	.....	.....	3	.....	10	.....	calm	0	0	.....	.....	overcast.
S. S. Plantyn, N. 51° 00′, E. 2° 03′	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	2	.....	wsw.	0	0	sm'h	sw.	hazy.
S. S. Baltic, N. 50° 27′, W. 28° 31′ *	28.97	735.8	41	5.0	?	ssw.	.....	.....	6	.....	4	.....	ssw.	0	0	r'gh	w.	d. clouds.
S. S. Lepanto, N. 47° 53′, W. 20° 50′ *	29.60	751.8	52	11.1	.....	s.	.....	.....	8	.....	9	.....	sw.	8 h'r	8 h'r	h'vy	s;sw	cloudy.
S. S. Marengo, N. 50° 10′, W. 28° 45′ *	28.95	735.3	.....	.....	.....	sw.	.....	.....	9	.....	8	.....	sw.	5 h'r	5 h'r	high	sw.	squally.
S. S. Otranto, N 51° 46′ W. 37° 06′ †	28.61	726.7	44	6.7	.....	wsw.	.....	.....	4	.....	8	.....	w.	.....	.....	cross	w.	cloudy.
S. S. Romano, New York, N. Y	.....	.....	32	0.0	.....	w.	.....	.....	2	.....	2	.....	w.	0	0	.....	.....	fine.
S. S. Salerno, New York, N. Y	30.35	770.9	52	11.1	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	.....
S. S. Catherine Whiting, Providence, R. I †	30.49	774.4	.....	.....	.....	ne.	.....	.....	1	.....	.....	.....	ne.	0	0	.....	.....	rain & fog.
S. S. Norman, N. 42° 23′, W. 71° 05′ †	30.49	774.4	.....	.....	.....	ne.	.....	.....	5	.....	.....	.....	ne.	0	0	.....	.....	cloudy.
MISCELLANEOUS																		
Bg. Abbie Clifford, Havana, Cuba, W. I †	30.16	766.1	70	21.1	.....	.....	.....	.....	.....	.....	.....	.....	fg.	.....	.....	.....	.....	.....
Schr. Abbie H. Gheen, Spring Wood Mills, S. C †	30.24	708.1	55	12.8	.....	e.	.....	.....	3	.....	.....	.....	.....	0	0	.....	.....	foggy.
Bk. Adelaide, off Rio de Janeiro, Brazil * †	30.00	762 0	79	26.1	.....	nw.	.....	.....	2	.....	4	.....	n.	0	0	mod.	sw.	dense haze.
Bg. Aletra, N. 31° 50′, W. 68° 52′	30.24	768.1	.....	.....	.....	wsw.	.....	.....	4	.....	8?	.....	wsw.	0	0	mod.	var.	clear.?
Schr. Alpha, Demerara, British Guiana * †	29.98	761.5	80	26.7	.....	ene.	.....	.....	4	.....	4	.....	.....	1 h'r	1 h'r	.....	.....	fair.
Bk. Anna A. Holton, Tampico, Mexico †	29.98	761.5	76	24.4	.....	ne.	.....	.....	6	.....	10	.....	ne.	0	0	sm'h	.....	cloudy.
S. S. Anna Thormann, S. 16° 15′, W. 8° 16′	30.10	764.5	75.7	24.3	67	se.	.....	.....	4	.....	9 k	.....	se.	0	0	mod.	se.	cloudy.
Bg. Antonio Lopez, Barcelona, Spain	30.33	770.4	54	12.2	67	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	hazy.
Bg. Arthur, S. 23° 36′, W. 38° 12′ * †	30.16	766.1	.....	.....	.....	nne.	.....	.....	4	.....	2	.....	var.	0	0	mod	var.	.....
Schr. Annie R Lewis, N. 29° 28′, W 63° 30′	.....	.....	72	22.2	.....	sw.	.....	.....	5	.....	8	.....	ssw.	0	0	mod	var.	fair.
Bk. B. F. Watson, Hong Kong, China †	30.29	769.4	62	16.7	.....	ne.	.....	.....	2	.....	2	.....	cne.	0	0	.....	.....	clear.
Bg. Belle of the Bay, Galveston, Texas †	29.95	760.7	.....	.....	.....	nnw.	.....	.....	5	.....	0?	.....	.....	.....	.....	.....	.....	raining.?
Bkt. Bonny Boon, N. 28° 45′, W. 23° 25′ * †	29.99	761.0	.....	.....	.....	w.	.....	.....	2	.....	5	.....	w.	0	0	high	n.	cloudy.
Bk. Bremen, N. 29° 15′, W. 26° 55′ *	30.05	763.3	.....	.....	.....	w.	.....	.....	5	.....	4	.....	w.	0	0	mod.	var.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Bk. Champion, Philadelphia, Pa			48	8.9		n.			3		10		ne.	24 h'r	24 h'r			drizzling.
Bk. Commerce, N. 39° 12° W. 13° 39′ †	30.08	764.0	57	13.9		se.			5		5		se.	o	o	cross	var.	fair.
S. S. D. J. Foley, Colon, Panama*†	29.92	760.0	81	27.2	87	n.			2		2		w.	o	o	sm'h	nnw.	clear.
S. E. B. Sutton, N. 34° 30′, W. 42° 00′ †	30.16	766.1	61	16.1	77	wnw.			6		6		wnw.	o	o	r'gh	var.	fair.
Bk. E. D. Bigelow, N. 41° 30′, W. 26° 30′*†	29.35	745.5				w.			7		8		var.	o	o	cross	nw.	threatening.
Schr. Edith R. Seward, New River Inlet, N. C†	30.21	767.3	48	8.9		ne.			1					6 h'r	6 h'r			foggy
Bk. Edmund Phinney, S. 23° 45′, W. 36° 36′ †	30.11	764.8				nne.			3		5		nne.	o	o	mod.	nne.	fair.
S. E. J. Spicer, N. 51° 05′. W 9° 30′	30.20	767.1	54	12.2	100	sw.			5		10		sw.	8 h'r	8 h'r	mod.	wsw.	raining.
Bk. E. L. Pettingill, S. 48° 04′, W. 104° 13′*†	30.10	764.5	60	15.6		wnw.			7		8		wnw.	12 h'r	12 h'r	cross	var.	drizzling.
Bk. Essex, Majambo, Madagascar*†	29.80	756.9	88	31.1		ne.			2					o	o			fine.
Schr. F. E. McDonald, Jacksonville, Fla †	30.13	765.3				calm			0					o	o			
U. S. F. C. S. S. Fish Hawk, Washington, D. C†	30.35	770.9	39	3.9	82	ne.			1		10		calm					drizzling.
S. S. Foscolia, Hartlepool, Eng						sw.			3		5		sw.	o	o			dull.
Bk. Freya, Matanzas, Cuba, W. I						sw.			1					o	o			hazy.
S. George Stetson, S. 16° —′, W. 360 —′ *†	29.98	761.5	78	25.6	91	sse.			5		5?		se.	o	o	chop	ssw.	cloudy?
Bg. Gipsey Queen, N. 23° 52′, W. 65° 47′	30.15	765.8	78	25.6		e.			6		2		e.	o	o	short	e.	fair.
S. Grecian, N. 34° 55′, W. 49° 10′†	30.20	767.1	59	15.0	70	nnw.			5		6		nw.	o	o	mod.	nw.	fair.
Bk. Grey Eagle, S. 21° 19′, W. 38° 15′	30.00	762.0				ne.			3		0			o	o			fine.
Bk. Gronsvaer, Auckland, N. Z	30.23	767.9	72.2	22.3		ne.			3		3		nw.	o	o			fair.
Bk Hattie G. McFarland, Demerara, Brit. Guiana*†	30.14	765.5	78	25.6		e.			6		7		e.	2 h'r	2 h'r			
Schr. Hattie Weston, St. Pierre, Martinique, W. I*†	30.18	766.6	77	25.0		ese.			2		5		ese.	4 h'r	4 h'r	sm'h	w.	fair.
S. Hedwig, N. 53° 35′, E. 4° 49′	30.18	766.6	45.9	7.7		w.			5		2		w.	rain	rain	3	ssw.	fine.
Bk. Heinrich & Tonio, N. 35° 09′, W. 34° 13′			62.5	16.9		sw.			4		8		w.	3 h'r	3 h'r	light	nw.	cloudy.
Schr. Isabel Alberto, New York, N. Y†	30.42	772.7				ene.			3		10			rain	rain			foggy.
Schr. James Slater, N. 28° 20′, W. 52° 58*†	30.29	769.4	73	22.8		w.			2		2		nw.	o	o	light	ne.	
Bk. Johanne, N. 20° 19′, W. 31° 46′ *†	30.05	763.3	70	21.1		ene.			4		5		var.	o	o	sm'h	ne.	fine.
Schr. John L. Thomas, N. 11° 08′, W. 64° 05′*†	30.14	765.5				ene.			3		2		e.	½ h'r	½ h'r	short	ne.	clear.
Bkt. Josephine, S. 30° 12′, W. 22° 32′†	30.17	766.3	82	27.8	59	n.			3		0			o	o	sm'h		clear.
S. S. J. W. Wilson, Sabine Light, La*†	29.84	757.9	46	7.8		nw.			6		10			20 h'r	20 h'r			foggy.
Light House Tender Laurel, Tampa Bay, Fla †	30.15	765.8	67	19.4		s.			1–2		10			o	o			foggy.
Bg. Lilian, N. 10° 50′, W. 60° 00′ †	30.13	765.3	81	27.2		ne.			6		2		ne.	1 h'r	1 h'r	r'gh	ene.	clear.
Bk. Louise Adelaide, N. 25° 30′, W. 85° 40′						se.			3		4		se.	o	o	short	sse.	fine.
S. S. Malabar, N. 36° 37′, W. 25° 21′ *†	29.60	751.8				sw.			9					8 h'r	8 h'r	str'g	sw.	raining.
Bk. Mary A. Troop, N. 40° 20′, W. 41° 30′						wnw.			10		8		wnw.	hail	hail	h'vy	nnw.	
Bk. Matilda C Smith, N. 37° 34′. W. 59° 03′*†	30.36	771.1				ene.			4		5		ne.	o	o	mod.	ne.	fine.
Schr. Minnie A. Bonsall, Mayport, Fla †	30.22	767.6	67	19.4		se.			1		fg.							foggy.
S. M. P. Grace, S. 28° 28′, W. 24° 15′ *†	30.12	765.0	82	27.8		n.			1		1		n.	o	o	long	wsw.	
Bg. Myrtle, Barbadoes, W. I *†	29.90	759.4				ene.			6		1		ene.	4 h'r	4 h'r			fair.
Bkt. Norena, Matanzas, W. I*†	30.25	768.3				sse.			1		0			o	o	sm'h		fine.
Bg. O. C. Clary, N. 30° 38′, W. 75° 21′ *†	30.15	765.8	74	23.3	95	ssw.			1		1		ssw			sm'h	ssw.	clear.
Schr. Ocean Traveler, N. 29° 40′, W. 64° 00′ †	30.29	769.4				sw.			4		4					sm'h		fair.
Bk. Ottawa, Alicante Harbor, Spain*	30.32	770.1	58	14.4		calm			0		0			o	o			clear.
S. Paramita, San Francisco, Cal†	30.25	768.3	36	2.2		nne.			2					o	o			clear.
Schr. Pearl Nelson, Barbadoes, W. I*†	30.06	763.5							8		1			o	o			
S. S. Peconic, N. 41° 49′, W. 41° 10′*†	29.40	746.7	44	6.7		wnw.			8				wnw.	hail	hail	h'vy	wnw.	clear.
S. S. Raleigh, Matanzas, Cuba, W. I*†	30.09	764.3	75	23.9		calm			0		8			o	o			
Bk. Reindeer, Martinique, W. I *	30.13	765.3				ene.								o	o			squally.
S. Rudolph, N. 42° 52′, W. 24° 35′			53.5	11.9		wnw.			5		9		nw.	8 h'r	8 h'r	cross	var.	rainy.
Bk. Saga, N. 38° 02′, W. 76° 11′			47	8.3		sw.			2					rain	rain			dense fog.
Schr. S. B. Hubbard, Jacksonville, Fla *†	30.21	767.3	67	19.4		calm			0		fg			o	o			dense fog.
Bk. Southern Belle, N. 23° 04′, W. 51° 25′*†	30.20	767.1	78	25.6		ene.			3					o	o	mod.	n.	clear.
S. Sovereinn of the Seas, S. 7° 56′, W. 120° 39′ *†	30.06	763.5	75	23.9	90	ese.			3		9		ese.	o	o	chop	se.	cloudy.
Bk. Sunbeam, Lisbon, Portugal*†	30.20	767.1	57	13.9	81	ne.			2		0			o	o			clear.
S. S. Sunbeam, N. 46° 06′, W. 36° 03′	29.20	741.7	41	5.0	82	wnw.			7		8		wnw.	7 h'r	7 h'r	7	w.	showery.
S. Titan, N. 14° 07′, W. 32° 33′ *†	30.10	764.5	75	23.9	72	e.			5		4		e.	¼ h'r	¼ h'r	mod	e.	fair
Bk. Wandering Jew, Montevideo, Uruguay †	29.90	759.4	72	22.2		se.			7		4		se.	2 h'r	2 h'r			fair.
Bk. Winifred, N. 31° 12′, W. 48° 25′*†	30.25	768.3				var.							ne.	o	o		n.	fair.
Schr. Wm. Wiler, N. 28° 30′, W. 65° 15′†	30.26	768.6				sw.			1		5			o	o	mod.	se.	fine.
Bk. Xenia, N. 16° 20′ W. 31° 42′*†	30.13	765.3	75	23.9		ne.			6		7		ne.	2 h'r	2 h'r	mod.	ne.	cloudy.

International Chart I. January 20, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 21. 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mil.	Inch.	Mil.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mil.		
Algerian.																			
Nemours	.....	.....	30.30	769.5	59.7	15.4	75	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.28	769.2	53.6	12.0	65	e.	.....	.....	1	.....	0	.....	.....	0.150	3.8	clear	Thève.
La Calle	.....	.....	30.22	767.5	59.7	15.4	64	wsw.	.....	.....	2	.....	3	.....	.....	0.098	2.5	pretty fair	Fonfrède.
Tunis	.....	.....	30.20	767.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.30	769.5	61.5	16.4	18	nw	.....	.....	1	.....	2	.....	.....	0	0	fair	Pérès.
Tebessa	.....	.....	30.17	766.4	40.4	4.8	90	nw.	.....	.....	1	.....	4	.....	.....	0.276	7.0	cloudy	Dognon.
Geriville	.....	.....	.....	.....	39.2	4.0	73	n.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Lonchamp.
Laghouat	.....	.....	30.30	769.6	48.2	9.0	73	nw.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Abraham.
Biskra	.....	.....	30.22	767.7	60.8	16.0	36	nw.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Malau.
Australian.																			
Melbourne, Victoria	29.98	761.5	30.07	763.8	63.2	17.0	71	ssw.	11	4.9	.....	.....	2	.....	.....	0	0	very fair	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.68	753.8	30.27	768.9	23.0	— 5.0	82	s.	.....	.....	1	.....	3	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.19	741.5	29.99	761.8	33.1	0.6	89	sw.	3.1	6.9	.....	.....	10	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.14	740.2	30.08	764.0	24.1	— 4.4	91	s.	.....	.....	3	.....	10	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.91	734.4	30.23	767.9	31.6	— 0.2	63	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.64	727.4	30.15	765.9	28.6	— 1.9	66	w.	.....	.....	3	.....	6	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.94	735.0	30.36	771.2	30.4	— 0.9	90	nw.	.....	.....	2	.....	10	.....	.....	0	0	gloomy	The Staff.
Lemberg	28.80	731.6	29.84	757.8	30.6	— 0.8	86	w.	.....	.....	4	.....	10	.....	.....	0.142	3.6	.....	Dr. T. Stanecki.
Neu Schmecks	26.49	672.8	29.99	761.7	30.6	— 0.8	.....	ne.	.....	.....	6	.....	6	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.06	763.6	30.18	766.5	46.4	8.0	55	nnw.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.62	752.3	30.09	764.3	22.3	— 5.4	90	w.	.....	.....	2	.....	10	.....	.....	0.020	0.5	.....	Joseph Midlinszay, S. J.
Szegedin	29.88	758.9	30.18	766.6	22.3	— 5.4	85	s.	.....	.....	3	.....	6	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.11	764.9	30.21	767.4	44.4	6.9	45	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Royal Academy.
Vienna	29 48	748.7	30.22	767.6	39.2	4.0	58	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.28	769.1	30.38	771.6	40.3	4.6	87	s.	7	3.1	.....	.....	2	.....	.....	0	0	misty	W. Boswell
Armagh, Observatory	30.03	762.7	30.27	768.8	47.8	8.8	85	sse.	11	4.9	.....	.....	.....	.....	.....	.....	.....	.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.35	770.9	41.2	5.1	96	ese.	13	5.8	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.81	757.2	30.36	771.1	41.9	5.5	94	wnw.	.....	.....	.....	.....	10	.....	.....	.....	.....	raining	Thomas Mackereth.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	McLandsborough & Preston.
Bridgetown, Barbadoes	30.03	762 7	30.06	763.5	80.0	26.7	74	ne.	.....	.....	3	.....	6	.....	.....	0	0	.....	.....
Cardington	.....	.....	.....	.....	44.6	7.0	98	se.	.....	.....	0.2	.....	10	.....	.....	.....	.....	gloomy	Corpl. J. Surgenor, A. H C.
Chatham, School M. E	30.26	768.6	30.40	772.1	45.3	7.4	95	calm	.....	.....	0	.....	10	.....	.....	.....	.....	foggy	John McLaren.
Falmouth, Observatory	30.08	764.0	30.31	769 9	47.6	8.7	77	se.	.....	.....	3	.....	7	.....	.....	blank	blank	misty	Corpl. G. A. Pickles.
Fort Napier, Natal	27.46	697.5	29.08	753.9	81.0	27.2	70	e.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Galway	30.10	764.5	30.14	765.5	49	9.4	50	s.	.....	.....	3	.....	2	.....	.....	0	0	blue sky	Corpl. F. Milner, A. H. C.
Gibraltar, Mediterranean	30.13	765.3	30.18	766.6	56.5	13.6	93	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	gloomy	Wm. Ryan.
Glasgow, Observatory	30.10	764.5	30.30	769.6	39.1	3.9	78	ene.	.....	.....	3	.....	fg.	.....	.....	.....	.....	foggy	Sgt. J. Norris, A. H C.
Greenwich, Royal Obs'y	30.22	767.6	30.40	772.1	46.6	8.1	92	ese.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	Harry Urquhart, Asst.
Guernsey	30.06	763.5	30.37	771.4	42.0	5.6	95	sse.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	The Staff.
Kew, Observatory	30.36	771.1	30.40	772.1	48.2	9.0	93	ne.	6	2.7	.....	.....	10	.....	.....	.....	.....	misty	A. Collenette, F. M. S.
Leicester, Museum	30.15	765 3	30.40	772.1	42.6	5.9	95	se.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	The Staff.
Malta, Mediterranean	30.03	762.7	30.11	764.8	55.2	12.9	80	ne.	.....	.....	2	.....	7	.....	.....	0.05	1.3	clear	J. C. Smith.
Nassau, Bahamas	30.19	766.8	30.23	767.8	71.6	21.7	95	s	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	Corpl. Keene, A. H. C
Oscott, St. Mary's College	29.81	757.2	30.36	771.1	41.7	5.4	97	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	misty	C. S. Duncombe
Oxford, Radcliffe Obs'y	30.16	766.1	30.38	771.6	47.7	8.7	93	calm	.....	.....	0	.....	10	.....	.....	.....	.....	drizzling	Rev. Jas. W. Browne
Plymouth	30.25	768.3	30.32	770.1	48.6	8.9	77	sse.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	The Staff.
Sandwick Manse, Orkneys	30.20	767.1	30.30	769.6	40.2	4.6	96	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	John Merrifield.
Scutari Cemetery, Turkey	30.05	763 3	30.12	765.0	36.2	2.3	79	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	sleeting	Rev. C. Clouston, L.L.D.
Sheffield	30.09	764.3	30.38	771.6	41.0	5.0	90	calm	.....	.....	0	.....	10	.....	.....	0	0	misty	W. H. Lyne.
Stonyhurst, Observatory	30.33	770.4	30.36	771.1	37.4	3.0	91	ne.	.....	.....	1	.....	10	.....	.....	0	0	overcast	W. F. Cooper.
Stroud, Rodborough	.....	.....	30.39	771.9	.....	.....	.....	ne.	5	2.2	.....	.....	10	.....	.....	.....	.....	overcast	Rev. F. Redford, M. A.
Silloth Rectory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Rev. S. J. Perry.
Tarriss	30.18	766 6	30.41	772.4	48.1	8.9	97	s.	.....	.....	0–1	.....	10	.....	.....	.....	.....	drizzling	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	30.27	768.8	30.32	770.1	50	10.0	78	s.	.....	.....	4	.....	7	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.08	764.0	30.10	764.5	48.9	9.4	81	se.	40	17.9	.....	.....	10	.....	.....	.....	.....	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.92	760.0	29.96	761 0	20	— 6.7	99	se.	20	8.9	.....	.....	10 n	.....	calm	0	0	threatening	H. J. Cundall, C. E
Chatham, N. B*	29.76	755.9	29.83	757.7	11	—11.7	100	e.	6	2.7	.....	.....	10 n	.....	e.	0.13	3.3	light snow	G. A. Blair
Cornwall	29.10	739.1	29.30	744.2	38.2	3.4	82	sw.	.....	.....	6	.....	10 s	.....	.....	0	0	overcast	Jas. Smith, M. A.
Dalhouse	29.70	754.4	29.75	755.6	10.5	—11.9	.....	e.	.....	.....	6	.....	10 n	.....	.....	0.20	5.1	snowing	H. A. Johnson.
Fauner Point, Quebec*	29.47	748.5	29.49	749 0	19	— 7.2	84	s.	4	1.8	.....	.....	10 n	.....	calm	0.05	1.3	threatening	... McWilliams.
Fort Garry, Manitoba*	29.05	737 9	30.07	763.8	—46	—43.3	100	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton	29.65	753.1	29.72	754.9	15.0	— 9.4	86	ne.	4	1.8	.....	.....	10 n	.....	.....	0.220	5.6	sleeting	Prof. Harrison, L. L. D.
Granton	28.51	724.1	29.72	754.9	4.7	—15.2	95	w.	12	5.4	.....	.....	10 n	.....	.....	0.20	5.1	overcast	Jas. Grant.
Halifax, N. S*	29.90	759.4	30.04	763 0	30	— 1.1	92	se.	20	11.6	.....	.....	10 n	.....	s.	.....	.....	hailing	A Allison.
Hamilton	29.45	748.0	29.87	758.7	9.5	—12.5	88	sw.	.....	.....	5	8 ck	0	sw.	.....	0.20	5.1	cloudy	Geo. Dickson, B. A.
Kingston, Ontario*	29.16	740.7	29.50	749.3	29	— 1.7	96	sw.	34	15.2	.....	.....	10 ks	.....	w.	0.38	9.7	clearing	A. P. Knight, M. A
Montreal, Quebec*	29.07	738.4	29.27	743.4	39	3.9	89	se.	12	5.4	.....	.....	10 s	.....	.....	0.28	7.1	cloudy	C. H. McLeod, C. E.
Ottawa	29.05	737.9	29.30	744.2	35.4	1.9	75	w.	.....	.....	4	.....	9 s	.....	.....	.....	.....	snowing	A. McGill, M. A.
Parry Sound, Ontario*	28.81	731.8	29.54	750.3	17	— 8.3	83	w.	32	14.3	.....	.....	10 n	.....	.....	0.26	6.6	light snow	Rev. R. Mosley.
Peterboro	28.88	733.5	29.67	753.6	19.6	— 6.9	85	w.	.....	.....	6	0	4 ks	.....	.....	0	0	fine	J. Dixon, B. A.
Port Dover, Ontario	29.14	740.1	29.89	759.2	8	—13.3	100	sw.	24	10.7	.....	.....	10 cs	.....	sw.	0.28	7.1	cloudy	H. Morgan.
Port Stanley, Ontario	29.23	742.4	29.93	760.2	6	—14.4	75	w.	26	11.6	.....	.....	10 n	.....	w.	0.35	8.9	cloudy	M. Payne.
Quebec, Quebec*	29.03	737.3	29.36	745.7	25	— 3.9	100	ne.	.....	.....	5	.....	10 k	.....	.....	0.90	22.9	clearing	Capt. Ashe, R. N
Rockliffe, Ontario*	28.92	734.6	29.42	747.3	21	— 6.1	84	w.	15	6.7	.....	0	5 cs	.....	.....	0.34	8.6	fair	W. H. McIntyre.
Sangeen, Ontario*	28.93	734.8	29.69	754.1	13	—10.6	91	sw.	40	17.9	.....	.....	10 s	.....	.....	0.13	3.3	light snow	
St. Andrews, N. B	29.02	752.3	29.67	753.6	33	0.6	94	se.	8	3.6	.....	.....	10 n	.....	.....	0.33	8.4	heavy rain	
St. John, N. B*	29.54	750.3	29.71	754.6	32.0	0.0	100	se.	10	4.5	.....	.....	10 n	.....	.....	0.42	10.7	light rain	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.24	768.1	18.3	— 7.6	.....	w.	.....	.....	2	.....	.....	.....	.....	0.08	2.0	.....	The Commandant.
Stratford	28.45	722.6	29.85	758.2	5.2	—14.9	97	w.	22	9.8	.....	.....	10 s	.....	.....	0.432	11.0	overcast	C. J. Macgregor, M A.
Sydney, C. B*	30.21	767.3	30.28	769.1	2	—16.7	100	calm	0	0	.....	.....	10 n	.....	.....	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.32	744.7	29.72	754.9	20	— 6.7	87	w.	35	15.6	.....	.....	10 ks	.....	w.	0.15	3.8	cloudy	Magnetic Observatory.
Windsor	29.81	757.2	29.91	759.7	26.0	— 3.3	88	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	hailing	Prof. W. H. Butler.
Woodstock	28.75	730.2	29.92	760.0	6.1	—14.4	85	.....	.....	.....	.....	.....	8 k	.....	w.	0.05	1.3	d. clouds	Prof. Wolverton, M. A.
Yarmouth, N. S*	29.67	753.6	29.74	755.4	30	— 1.1	96	se.	27	12.1	.....	.....	10 s	.....	se.	0.20	5.1	light rain	Lt. F. E. Wilmot, R. A.
Cape Colony.																			
Cape St. Francis Lt. House	29.92	760 0	29.95	760.7	73.0	22.8	74	sw.	14.4	6.4	.....	0	2 k	.....	.....	0.100	2.5	light haze	John Duthie.
Springbok Fontein	27.85	707.4	.....	.....	80	26.7	40	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.43	620.6	.....	.....	22.6	— 5.2	.....	calm	.....	.....	0	.....	fg	.....	.....	.....	.....	foggy	
Tchang-kia-tchouang	30.12	765.0	30.23	767.8	34.0	1.1	44	se.	.....	.....	1	.....	7	.....	.....	0	0	.....	**Mission, S. J.**
Zi-Ka-Wei, near Shanghai.	30.34	770.7	30.37	771.4	35.6	2.0	89	e.	8.5	3.8	.....	0	0	.....	.....	0	0	clear	**M. Marc Dechevrens, S.J**
Danish.																			
Copenhagen	30.18	766.6	30.23	767.8	40.6	4.8	42	nnw.	20	9	.....	.....	0	.....	.....	.....	.....	.....	
Fanoe	30.32	770.2	30.34	770.7	36.3	2.4	100	w.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	**Oversergent Fischer.**
Godthaab, Greenland	29.46	748.3	29.50	749.4	7.0	—13.9	79	nne.	.....	.....	7	.....	9	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Ivigtut, Greenland	29.09	738.9	29.11	739.4	18.1	— 7.7	.....	calm	.....	.....	0	.....	9	.....	.....	.....	.....	.....	**S. Kleinschmidt.**
Jacobshavn, Greenland	29 96	761.0	30.01	762.2	—15.0	—26.1	.....	calm	.....	.....	0	.....	5	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.35	745.4	29.39	746.5	45.0	7.2	96	se.	.....	.....	8	.....	10	.....	.....	.....	.....	.....	
Thorshavn	30.23	767.8	30.26	768.7	43.0	6.1	91	s.	9	4	.....	.....	10	.....	.....	.....	.....	raining	**A. O. Thorlacius.**
Vestervig	30.24	768.0	30.33	770.3	37.6	3.1	83	nnw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Upernavik, Greenland	30.15	765.8	30.20	767.0	—19.7	—28.7	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	**Loerer Oesterbol.**
French.																			
Agen, Normal School	29.69	754 2	30.37	771.4	42.4	5.8	94	calm	.....	.....	0	.....	0	.....	.....	.....	.....	clear	**M. Labroue, Director.**
Alençon, Normal School	29.82	757.5	30.37	771.5	35.6	2	97	nne.	.....	.....	1	.....	n	sw.	sw.	0	0	.....	**M. Nicot, Director.**
Arras, Engineer School	30.15	765.8	30.42	772.6	39.7	4.3	97	.....	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. Fénéon, Command't.**
Avignon, Normal School	30.21	767.4	30.29	769.4	45.0	7.2	66	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. Giraud, Director.**
Bar-sur-Seine	29.84	758.0	30.44	773.1	31.6	— 0.2	95	ese.	.....	.....	1	.....	10	.....	.....	0	0	clear	**M. Sallard, Director.**
Beauvais, Normal School	30.18	766.5	30.46	773.6	38.5	3.6	87	e.	.....	.....	1	.....	10	.....	.....	0	0	covered	**M. Frère Eugène Marie.**
Besançon, Normal School	29.43	747.6	30.39	772.0	34.2	1.2	81	ne.	.....	.....	1	.....	n	.....	sw.	0	0	covered	**M. Gobin, Director.**
Bordeaux, Observatory	30.01	762.3	30.28	769.1	48.7	9.3	71	e.	.....	.....	1	.....	0	.....	.....	0.004	0.1	clear	**M. Rayet, Director.**
Bourges, Normal School	29.81	757.1	30.39	771.8	38.3	3.5	93	ene.	.....	.....	2	.....	1	.....	ene.	0	0	clear	**M. Malet, Director.**
Brest, Naval Observatory	30.09	764.2	30.33	770.4	42.4	5.8	91	sw.	.....	.....	1	.....	2	.....	sw.	0	0	.....	**M. de Kermarec, Dir.**
Caen, Normal School	30.28	769.0	30.35	771.0	35.1	1.7	100	ne.	.....	.....	1	.....	10	.....	.....	0	0	covered	**M. Berson, Director.**
Châlons-sur-Marne, N.Sch'l	30.08	764.1	30.42	772.6	35.2	1.8	89	se.	.....	.....	2	.....	10	.....	.....	0	0	covered	**M. Jadot, Director.**
Charleville, Normal School	29.94	760.4	30.46	773.6	36.7	2.6	83	ne	.....	.....	1	.....	10	.....	.....	0	0	covered	**M. Grimard, Director.**
Clermont-Ferrand Obs'y	28.94	735.0	30.33	770.3	47.1	8.4	60	n.	.....	.....	1	.....	10	.....	.....	0	0	clear	**M. Allnard, Director.**
Cluny, Normal School	29.52	749.8	30.42	772.0	29.3	— 1.5	100	sw.	.....	.....	1	.....	fg	.....	.....	0	0	foggy	**M. de Villemontée, Dir.**
Commercy, Normal School	29.55	750.6	30.47	773.8	34.2	1.2	93	e.	.....	.....	1	.....	10 h	e.	e.	0	0	foggy	**Dr. Coulet, Director.**
Gap, Normal School	27.68	703.0	30.27	768.8	48.2	9	73	.....	.....	.....	.....	.....	0	.....	.....	0	0	.....	**M. Jeangirard, Director.**
Gréasque, du Rhone	29.10	739.2	30.25	768.4	51.3	10.7	46	nw.	.....	.....	1	.....	2	.....	nw.	0	0	.....	**M. Kiun, Director.**
Grenoble, Normal School	29.54	750.4	30.35	770.8	42.8	6	67	ese.	.....	.....	1	c	0	.....	.....	0	0	.....	**M. Ablard, Director.**
Guéret	28.73	729.8	30.34	770 7	48.6	9.2	26	calm	.....	.....	0	.....	0	.....	.....	c	0	clear	**M. Delorme, Dir.**
Lamballe, Normal School	30.04	762.9	30.31	769.9	42.8	6	85	se.	.....	.....	1	.....	1	.....	se.	0	0	clear	**M. Ollitrault, Director.**
Lescar, Normal School	29.65	753.0	30.22	767.5	56.1	13.4	64	e.	.....	.....	1	0	0	.....	.....	0	0	clear	**M. Chauvin, Director.**
Lorient, Naval Observatory	30.26	768.7	30.37	771.3	40.1	4.5	54	e.	.....	.....	1	.....	8	.....	e.	0	0	¾ covered	**Lt. T. Carré, Director.**
Lyon, St. Genis-Laval	29.28	743.7	30.40	772 2	31.3	— 0.4	87	n.	.....	.....	1	.....	fg	.....	.....	0	0	dense fog	**M. André, Director.**
Mans, Normal School	30.06	763 6	30.39	772.0	32.9	0.5	92	se.	.....	.....	1	.....	10	.....	.....	0	0	covered	**M. Piboën, Director.**
Marseille, Observatory	30.00	762.0	30.27	768 9	53.6	12.0	65	wnw.	.....	.....	4	.....	0	.....	.....	0	0	.....	**M. Stephan, Director.**
Montlouis	24.98	634.4	29.82	757.4	43.5	6.4	28	sw.	3.8	1.7	1	.....	0	.....	.....	0	0	.....	**M. Carô for Dr. Fines.**
Montpellier, Normal School	30.15	765.9	30.28	769.2	51.1	10.6	72	n.	.....	.....	.....	.....	0	.....	.....	0	0	.....	**M. Galzin, Director.**
Nancy, Normal School	29.55	750 6	30.38	771 6	33.8	1.0	96	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. Hasse, Director.**
Nantes, Observatory	30.22	767.6	30.39	771.8	37.0	2.8	93	e.	.....	.....	1	.....	fg	.....	.....	0	0	dense fog	**M. Larocque, Director.**
Perpignan, Observatory	30.20	767.0	30.31	769.9	49.3	9.6	81	ne.	3.8	1.7	1–2	.....	10	.....	.....	0	0	.....	**Dr. Fines, Director.**
Pic-du-Midi, Summit	21.36	542.6	.....	.....	32.7	0.4	.....	w.	.....	.....	.....	.....	6	.....	ne.	0	0	clear	**M. Vaussenat.**
Privas, Normal School	29.21	741.8	30.34	770.6	31.3	— 0.4	.....	n.	.....	.....	1	.....	1	.....	s.	0	0	clear	**M. Taillen.**
Puy de Dôme Obs'y, Summit	25.36	644.0	.....	.....	37.4	3.0	52	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. Allnard, Director.**
Rochefort, Naval Obs'y	30.30	769.6	30.33	770.4	41.0	5.0	94	ene.	.....	.....	2	.....	0	.....	.....	0	0	clear	**Lt. E. Decante, Director.**
Roche-sur-Yon, N. School	30.13	765.3	30.36	771.1	42.4	5.8	82	s.	.....	.....	2	.....	0	.....	.....	0	0	clear	**M. Brotier, Director.**
Rodez, Normal School	28.18	715 8	30.35	770.9	53.6	12	53	.....	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. Seger, Director.**
Rouen, Normal School	30.32	770.0	30.36	771.2	38.8	3.8	90	se.	.....	.....	.....	.....	0	.....	.....	0	0	clear	**M. Mouillot.**
Saint Lô	.....	.....	.....	.....	40.1	4.5	79	e.	.....	.....	1	.....	5	se.	.....	0	0	cloudy	**M. Delaplanche, Dir.**
Saint Maur, Observatory	30.35	771.0	30.52	775 2	32.4	0.2	91	nne.	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. Renou, Director.**
Toulouse, Observatory	29.58	751.3	30.31	769.8	43.7	6.5	94	se.	.....	.....	1	.....	10	.....	.....	0	0	.....	**M. Baillaud, Director.**
Tours	30.19	766.9	30.37	771.4	36.3	2.4	93	ne.	.....	.....	1	.....	10	.....	n.	0	0	clear	**M. de Tastes.**
Versailles, Observatory	29.91	759.7	30.40	772.2	33.1	0.6	100	e.	.....	.....	1	.....	0	.....	.....	0	0	hazy	**Dr. A. Bérigny, Director.**
Sub-series.																			
St. Martin du Hinx	30.12	765.1	30.27	768.9	52.9	11.6	65	.....	.....	.....	.....	0	0	.....	.....	0	0	clear	**M. Cartier, Director.**
German.																			
Ansbach	28.92	734.6	30.47	773.8	30.2	— 1.0	94	nw.	.....	.....	2	.....	9	nw.	.....	0	0	.....	**Prof. Jnedt.**
Bamberg	29.48	748 8	30.33	770.4	34.7	1.5	82	w.	.....	.....	1	.....	7	.....	.....	0	0	.....	**Prof. Dr. Hoh.**
Berlin	30.08	764.1	30.23	767.9	40.5	4.7	48	nw.	.....	.....	3	.....	1	.....	.....	0 008	0.2	.....	**Dr. Lensch.**
Breslau	29.56	750 9	30.10	764.4	36.1	2.3	66	wnw.	.....	.....	7	.....	10	.....	.....	0.004	0.1	.....	**Royal University Obs'y.**
Carlsruhe	29.99	761.7	30.45	773.5	35.4	1.9	87	s.	.....	.....	1	.....	10	ne.	.....	0	0	foggy	**Albert Senz.**
Cassel	29.62	752.3	30.33	770.4	38.5	3.6	87	nw.	.....	.....	1	.....	6	w.	.....	0	0	.....	**Dr. H. Möhl.**
Frankfort-on-the-Main	30.06	763.6	30.45	773.5	36.1	2.3	91	sw.	.....	.....	1	.....	10	.....	.....	0	0	.....	**Physical Society.**
Friedrichshafen	28 92	734.6	30.44	773.2	32.0	0.0	89	n.	.....	.....	1	.....	10	.....	.....	0	0	hazy	**Wilhelm, Chief Tel.**
Hamburg	30.28	769 2	30.37	771.5	37.4	3.0	90	w.	.....	.....	2	.....	10	.....	.....	0	0	light haze	**E. Preller.**
Kiel	30.33	770.4	30.35	770.8	39.0	3.9	73	nw.	.....	.....	2	.....	1	.....	.....	0	0	.....	**Prof. Dr. G. Karsten.**
Leipsic, Astrom'l Obs'y	29.90	759.4	30.34	770.6	39.9	4.4	74	nw.	.....	.....	3	.....	0	.....	.....	0	0	.....	**H. Leppig, Asst.**
Magdeburg	30.14	765.5	30.34	770.6	40.3	4.6	78	wnw.	.....	.....	4	.....	2	nw.	.....	0	0	.....	**Weather Observatory.**
Memel	29.54	750.3	29.59	751 5	32.5	0.3	94	nnw.	.....	.....	4	0	2 k	.....	nw.	0.004	0.1	.....	**Issermann.**
Munich	28.51	724.1	30.39	772.0	32.9	0.5	90	n.	.....	.....	6	.....	10 k	.....	.....	.....	.....	rain & snow	**Central Station.**
Neufahrwasser	.....	.....	.....	.....	36.0	2.2	70	sw.	.....	.....	1	.....	10	.....	.....	0	0	foggy	**A. Lothes.**
Neustadt, Palatinate	29.89	759.2	30.43	772.8	33.3	0.7	96	calm	.....	.....	6	.....	10	.....	.....	0.031	0.8	.....	**Dicknether.**
Stuttgart	29.46	748.2	30.41	772.3	31.5	— 0.3	90	n.	.....	.....	0	.....	10	.....	.....	0	0	dense fog	**Prof. Dr. Schoder.**
Wustrow	30.27	768.8	30.29	769.4	36.3	2.4	75	n.	.....	.....	1	.....	10	.....	.....	0	0	foggy	**Profs. Brandes & Reimer.**
Greek.																			
Athens	29.70	754.3	30.10	764.4	47.3	8.5	.....	ne.	.....	.....	3	0	0	.....	.....	0	0	.....	
Indian.																			
Kurrachee	29.94	760.6	30.00	761.9	74.7	23.7	44	wsw.	17.0	7.6	.....	.....	1	.....	.....	0	0	.....	**Schmidt & Wourlisch.**
Deesa	29.40	746.8	29.88	758.9	81.9	27.7	25	w.	7.0	3.1	.....	.....	5	w.	sse.	0	0	d. clouds	
Bombay	29.83	757.7	29.87	758.7	82.0	27.8	52	w.	10.0	4.5	.....	.....	0	.....	.....	0	0	d. clouds	
Poona, Yarrowda	28.00	711.1	29.85	758.1	79.8	26.6	24	ese.	9.0	4.0	.....	.....	0	.....	.....	0	0	blue sky	
Belgaum	27.32	693.8	29.86	758.3	70.2	24.6	34	se.	4.0	1.8	.....	.....	8	.....	w.	0	0	d. clouds	
Lahore	29.24	742.7	30.01	762.2	64.6	18.1	63	e.	2.0	0.9	.....	.....	3	se.	.....	0	0	d. clouds	
Roorkee	29.09	738.9	30.02	762.5	60.8	19.3	55	calm	0	0	.....	.....	8	.....	.....	0	0	gloomy	
Agra	29.42	747.2	30.00	761.9	68.8	20.4	49	ne.	2.0	0.9	.....	.....	10	.....	.....	0.01	0.3	.....	
Nagpur	28.88	733.7	29.94	760.3	78.0	25.6	27	calm	1.0	0.4	.....	.....	8	.....	e.	0	0	d. clouds	
Jubbulpore	28.57	725.7	29.94	760.5	74.8	23.8	36	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.62	752.2	30.01	762.1	67.3	19.6	44	calm	0	0	.....	.....	4	.....	sw.	0	0	d. clouds	
Allahabad	29.67	753.6	30.00	761.9	62.2	16.8	70	calm	0	0	.....	.....	9	.....	.....	0	0	d. clouds	
Patna	29 80	756.9	29.99	761.8	67.2	19.6	56	nnw.	2.1	0.9	.....	.....	3	.....	.....	0	0	d. clouds	
Hazaribagh	27 91	708.8	29.98	761.4	64.5	18.1	43	wnw.	4.1	1.8	.....	.....	2	nw.	nnw.	0	0	blue sky	
Cuttack	29.87	758.7	29.95	760.8	71.9	22.2	59	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.94	760.3	29.99	760.9	66.6	19.2	64	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.83	757.6	29.95	760.7	69.8	21.0	66	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.87	758 7	29.96	761.0	68.1	20.1	67	calm	2.2	1.0	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.67	753.6	30.02	762.5	62.9	17.2	80	ne.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar	29.70	754.5	29.73	755.1	83.7	28.7	73	s.	16.8	7.5	.....	.....	9	.....	ne.	0	0	gloomy	
Jeypore	28.48	723.5	29.99	760.9	70.9	21.6	60	se.	9.9	4.4	.....	.....	9	.....	se.	0	0	d. clouds	
Bellary	28.40	721.3	.....	.....	79.0	26.1	32	se.	6	2.7	.....	.....	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.62	752.3	.....	.....	83.4	28.6	52	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.78	756.5	30.21	767.3	44.1	6.7	32	calm	0	0	.....	.....	1	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.71	754.5	30.25	768.3	36.3	2.4	75	w.	4.3	1.9	.....	.....	2	e.	.....	0	0	.....	Prof. Schiapparelli.
Padua	30.14	765.5	30.25	768.4	31.8	— 0.1	93	nw.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.30	744.2	30.25	768.3	35.6	2.0	71	nw.	3.1	1.4	.....	.....	3	nw.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	30.06	763.4	30.25	768.4	52.2	11.2	53	sw.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi
Mondovi	28.27	718.1	30.28	769.1	41.7	5.4	36	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.17	766.2	30.22	767.5	41.0	5.0	67	n.	4.3	1.9	.....	.....	1	n.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	30.00	761.9	30.26	768 6	40.1	4.5	62	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	30.12	765.0	30.21	767.2	46.0	7.8	52	ne.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	30.04	763.0	30.22	767.6	47.5	8.6	38	.....	.....	.....	.....	.....	0	.....	.....	0	0	.....	Prof. P. Tachini.
Lecce	29.89	759.3	30.15	765.9	50.9	10.5	54	nne.	11.9	5.3	.....	.....	3	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.29	743.9	30.21	767.2	47.5	8.6	73	nnw.	3.1	1.3	.....	.....	0	.....	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.99	761.8	30.19	766.9	52.3	11.3	64	e.	.....	.....	2	.....	9	e	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.94	760.4	30.19	766.9	48.2	9.0	89	ne.	0	0	.....	.....	10	ne.	.....	0.140	3.7	.....	Prof. G. Cacciatore.
Syracuse	30.08	763.9	30.12	765.0	52.5	11.4	58	ne.	27.3	12.2	.....	.....	10	ne.	.....	0.157	4.0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.67	753.5	30.21	767.4	48.6	9.2	61	w.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.25	565.1	.....	.....	23.5	— 4.7	60	se.	.....	.....	2	.....	4	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.30	566.4	.....	.....	32.5	0.3	22	n.	.....	.....	2	.....	2	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.06	763.6	30.09	764.4	29.3	— 1.5	95	calm	.....	.....	0	.....	10 n	.....	nw.	0.295	7.5	snowing	Hattori.
Awomori	30.01	762.2	30.05	763.2	26.0	— 3.3	88	sw.	8.5	3.8	.....	0	8 ck	.....	w.	0.020	0.7	overcast	K. Ogawa.
Hakodate	29.98	761.6	30.00	761.9	30.5	— 0.8	89	w.	12.0	5.4	.....	5	0	.....	.....	0	0	fair	
Hamamatsu	30.20	767.1	30.23	767.8	34.2	1.2	83	w.	.....	.....	2	0	0	.....	.....	0	0	clear	
Kagoshima	30.36	771.2	30.37	771.5	36.7	2.6	83	n.	.....	.....	2	0	0	.....	.....	0	0	clear	G. Miyanohasa.
Kioto	30.11	764.7	30.29	769.4	32.5	0.3	77	w.	.....	.....	.....	0	8 ck	.....	nw.	0	0	cloudy	M. Tojima.
Kochi	30.27	768.9	30.29	769.4	35.0	1.7	80	nw.	1.9	0.8	.....	0	0	.....	.....	0	0	clear	K. Kusunose.
Miasaka	30.32	770.1	30.35	770.8	40.0	4.4	64	calm	.....	.....	0	0	0	.....	.....	0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.17	766.2	30.38	771.7	35.8	2.1	84	calm	0	0	.....	1 c	0	wnw.	.....	0	0	clear	S. Takehayashi.
Niigata	30.09	764.3	30.13	765.3	32.4	0.2	74	sw.	6.3	2.8	.....	.....	10 n	.....	.....	0.325	8.3	light snow	M. Morita.
Nobiru	30.08	764.0	30.10	764.4	28.4	— 2.0	89	nnw.	2.5	1.1	.....	2 ck	0	.....	.....	0	0	fair	H. Midzushima.
Numazu	30.13	765.3	30.17	766.2	30.5	— 0.8	72	ene.	.....	.....	2	0	0	.....	.....	0	0	clear	R. Kaneda.
Sakai	30.25	768.3	30.26	768.6	37.0	2.8	81	w.	.....	.....	2	0	7 ks	.....	wnw.	0	0	cloudy	K. Yamawchi.
Sapporo	.....	.....	.....	.....	26.0	— 3.3	58	se.	11.2	5.0	.....	.....	10	.....	.....	0.660	1.5	covered	
Tokei Obs'y, Yeddo	30.09	764.2	30.17	766.3	33.0	0.6	52	nw.	5.4	2.4	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	30.25	768.3	30.30	769.7	32.9	0.5	76	ne.	3.0	1.6	.....	0	0	.....	.....	0	0	clear	Y. Kuwamura.
Osaka	30.27	768.7	30.29	769.4	30.1	— 1.1	84	ne.	4.0	1.8	.....	0	0	.....	.....	0	0	.....	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.55	750.6	29.73	755.1	75.5	24.2	78	se.	21.0	9.4	.....	.....	10u;ks	.....	s.	0	0	overcast	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	49	9.4	92	n.	.....	.....	.....	.....	.....	.....	.....	.....	.....	clear	H. Diaz Pena.
Guanajuato	23.69	601.7	29.91	759.7	51.1	10.6	86	ssw.	inap.	inap.	.....	7 c;ck	0	sw.	.....	0	0	cloudy	Prof. Vicente Fernandez.
Leon	24.34	618.2	30.12	765.0	49.8	9.9	84	nnw.	.....	.....	1	0	8 ck	.....	.....	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.80	756.8	30.06	763.5	62.0	16.7	63	nw.	5.3	2.3	.....	9 ck	0	sw.	.....	0	0	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.10	586.8	30.27	768.9	46.0	7.8	72	calm	0	0	.....	0	0	.....	.....	0	0	very fine	The Staff.
Morelia	24 21	615.0	30.04	762.9	47.1	8.4	74	e.	.....	.....	2	0	0	.....	.....	0	0	fine	M. Tena, M. D.
Pabellon	23.41?	669.0?	30.13?	769.0?	49.8	9.9	79	w.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Puebla, Catholic Institute	23.41	594.7	30.29	769.3	44.6	7.0	77	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
Zacatecas	22.53	572.2	30.25	768.4	47.1	8.7	70	sw.	10.1	4.5	.....	.....	10 kn	.....	sw.	0	0	covered	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.46	773.6	30.46	773.6	40.5	4.7	.....	sse.	.....	.....	1	.....	.....	.....	.....	0.031	0.8	.....	
Gronlingen	30.35	770.9	30.41	772.3	40.8	4.9	.....	nw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.44	773.2	30.44	773.2	36.5	2.5	96	sw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Utrecht	30.41	772.5	30.46	773.7	34.3	1.3	98	sw.	.....	.....	1	.....	hz.	.....	.....	0.016	0.4	hazy	H. van der Brink
Sub-series.																			
Batavia, Java	29.83	757.7	.....	.....	77.9	25.5	85	n.	0	0	.....	.....	5	.....	.....	1.89	48.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.34	770.6	30.40	772.2	35.2	1.8	82	s.	2	1	.....	.....	0	.....	.....	blank	blank	.....	
Brono	30.06	763.5	30.10	764.5	33.8	1.0	79	nnw.	29	13	.....	.....	10	.....	.....	0.047	1.2	snowing	
Christiania	30.08	764.0	30.23	767.9	30.9	— 0.6	79	w.	4	2	.....	.....	0	.....	.....	0	0	.....	
Gjæsvær	29.75	755.6	29.77	756.2	30.4	— 0.9	.....	ne.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.85	758.1	29.89	759.3	29.3	— 1.5	72	wnw.	.....	.....	2	.....	8	.....	.....	0.004	0.1	.....	
PORTUGUESE.																			
Angra, Azores	29.62	752.3	29.78	756.4	53.6	12.0	86	nw.	3.1	1.4	.....	.....	6	.....	.....	0.669	17.0	.....	Dr. J. A. Sampaio.
Campo Major	29.29	744.0	30.32	770.0	52.7	11.5	64	ene.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.08	764.0	30.17	766.2	66.0	18.9	65	sw.	6.3	2.8	.....	.....	2	.....	.....	0.177	4.5	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.94	760.5	30.31	769 8	52.5	11.4	72	e.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	29.76	755.8	29.83	757.6	53.2	11.8	90	w.	2.5	1.1	.....	.....	10	.....	.....	0.492	12.5	raining	
Saint Paul de Loando	29.66	753.3	29.85	758.3	83.1	28.4	73	w.	1.8	0.8	.....	.....	8	.....	.....	0	0	.....	
Serra da Estrella	25.45	646.4	30.34	770.7	36.5	2.5	64	se.	15.0	6.7	.....	.....	0	.....	.....	0	0	.....	
RUSSIAN.																			
Akmollinski	29.19	741.5	30.49	774.5	—28.7	—33.7	81	sse.	2	1	.....	0	0	.....	.....	.....	.....	.....	Major K. Lasarew.
Archangel	29.60	751.9	29.62	752.4	22.6	— 5.2	90	nw.	2	1	.....	.....	10	.....	.....	0	0	.....	Capt. Sselliwerstow.
Ashuruda	30.30	769.6	30.21	767.2	33.4	0.8	96	ene.	4	2	.....	0	7 ks	.....	.....	0	0	.....	
Astrakhan	30.29	769.4	30.21	767.3	22.3	— 5.4	49	wnw.	2	1	.....	0	0	.....	.....	0.024	0.6	.....	Capt. Wisganow.
Baku	30.26	768.6	30.21	767.4	32.0	0.0	81	ssw.	9	4	.....	.....	9 k	.....	.....	0	0	.....	
Barnaul	30.09	764.2	30.08	779.2	—16.0	—27.0	79	calm	0	0	.....	.....	1	.....	.....	0.008	0.2	light clouds	Meteorological Obs'y.
Bielosersk	29.13	739.9	29.01	752.2	26.8	— 2.9	99	se.	4	2	.....	.....	10 s	.....	.....	0.031	0.8	.....	
Derpat	29.22	742.3	29.47	748.6	33.4	0.8	100	ene.	7	3	.....	.....	10 n	.....	.....	0.039	1.0	.....	Observatory.
Ekaterinburg	28.77	730.8	29.79	756.7	17.1	— 8.3	88	ssw.	9	4	.....	.....	10	.....	.....	0.008	0.2	.....	Meteorological Obs'y.
Elissawetgrad	29.44	747.7	29.92	759.9	25.3	— 3.7	62	sse.	10	7	.....	.....	10 s	.....	.....	0	0	.....	
Irkutsk	29.04	737.5	30.99	787.1	—19.1	—28.4	86	calm	.....	.....	0	.....	5	.....	.....	0	0	.....	
Kasan	29.50	749.3	29.79	756.7	16.0	— 8.9	82	ssw.	7	3	.....	.....	10	.....	.....	0.024	0.6	light snow	Observatory.
Kem	29.63	752.7	29.69	754 0	15.8	— 9.0	94	calm	0	0	.....	.....	9 ks	.....	.....	0	0	.....	
Kertch	30.04	762.9	30.06	763.4	25.3	— 3.7	76	calm	0	0	.....	0	0	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.08	738.6	29.75	755.6	27.7	— 2.4	100	w.	4	2	.....	.....	10 n	.....	.....	0.169	4.3	snowing	Observatory.
Kosloy	29.29	743.9	29.85	758.2	22.8	— 5.1	97	wsw.	9	4	.....	.....	10 s	.....	.....	0.075	1.9	.....	
Libau	29.55	750.5	29.57	751.1	33.8	1.0	83	nnw.	20	9	.....	.....	10	.....	.....	0.140	3.7	.....	E. Quass.
Lugan	29.81	757.2	30.02	762.4	17.6	— 8.0	45	sw.	4	2	.....	.....	1	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.13	739.8	29.62	752.4	27.9	— 2.3	89	calm	0	0	.....	.....	10 n	.....	.....	0.016	0.4	light snow	
Nikolaiev	29.94	760.4	30.01	762.3	27.3	— 2.6	72	s.	18	8	.....	0	7 n	.....	.....	0	0	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.78	756.3	29.86	758 5	—16.6	—27.0	63	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Iwanow.
Pekin, China	30.07	763 8	30.21	767.4	27.0	— 2.8	54	calm	0	0	.....	0	7 k	.....	.....	0	0	.....	Physicla Observatory.
Petrozavodsk	29.37	746 1	29.58	751.4	20.6	— 3.0	94	e.	7	3	.....	.....	10	.....	.....	0.028	0.7	.....	Dr. Bergmann.
Pinsk	29.13	739.8	29 64	752 8	30.6	— 0.8	90	sw.	18	8	.....	.....	10 n	.....	.....	0.008	0.2	snowing	
Poti	30.10	764.4	30.11	764.9	36.1	2.3	85	e.	4	2	.....	0	5 k	.....	.....	0	0	.....	
St. Petersburg	29.47	748.5	29.48	748.9	29.7	— 1.3	94	e.	4	2	.....	.....	10 n	.....	.....	0.268	6.8	.....	Central Physical Obs'y.
Samarkand	27.75	704.9	30.44	773.2	16.0	— 8.9	43	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	
Sevastopol	29.84	757.9	30.00	762.1	39.6	4.2	54	sw.	7	3	.....	5 cs	0	.....	.....	0	0	.....	Major Lasarew.
Semipalatinsk	29.82	757.3	30.56	776.3	— 8.0	—22.2	85	se.	4	2	.....	.....	10	.....	.....	0	0	.....	
Staroi Bykhov	29.19	741.5	29.67	753.5	31.6	— 0.2	85	sse.	7	3	.....	.....	10	.....	.....	0.031	0.8	.....	Physical Observatory.
Tiflis	28.75	730 3	30.20	768.7	27.0	— 2.8	62	se.	2	1	.....	0	7 ks	.....	.....	0	0	.....	
Tomsk	30.35	770.8	30.07	779.1	—15.9	—26.6	81	se.	2	1	.....	.....	0	.....	.....	.....	.....	.....	
Viatka	29.01	736.8	29.68	753.8	15.4	— 9.2	.....	calm	0	0	.....	.....	10	.....	.....	0.012	0.3	.....	
Warsaw	29.33	744.9	29.76	756.0	34.0	1.1	81	nnw.	25	11	.....	.....	10	.....	.....	0.126	3.2	heavy cl'ds	Astronomical Obs y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mets. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Wilna	29.07	738.3	29.50	749.3	32.5	0.3	98	sw.	4	2			10			0.039	1.0	heavy clouds	**Berg, Assistant.**
Yeniseisk	30.45	773.5	30.80	782.2	—21.3	—29.6	82	e.	2	1			0			0	0	lunar corona	**M. O. Marks.**
Scottish.																			
Monach Lt			30.19	766.8	45	7.2	92	sse.			6		10			0	0	overcast	**J. Youngclauss.**
North Unst			30.34	770.6				s.			3		10			blank	blank		**Robt. Burnet.**
Spanish.																			
Barcelona, Met. Obs'y	30.19	766.8	30.30	769.5	50.0	10.0	67	sw.	0.9	0.4		0	0			0	0	clear	**Antonio Rave, Director.**
Bilbao, Met. Obs'y	30.24	768.2	30.30	769.7	60.3	15.7	46	se.	5.1	2.3		0	0			0	0	clear	**Prof. Manuel de Naveran.**
Burgos, Met. Obs'y	27.30	693.4	30.41	772.3	37.4	3.0	91	n.	1.8	0.8		0	0			0	0	clear	**Domingo Martin.**
Madrid, Royal Obs'y	28.07	713.0	30.37	771.4	47.7	8.7	57	calm	0.4	0.2		0	0			0	0	clear	**The Staff.**
Murcia, Met. Obs'y	30.18	766.5	30.31	769.8	55.8	13.2	73	w.	2.5	1.1		0	1			0	0	almost clear	**Olayo Diaz, Director.**
Oviedo	29.38	746.3	30.26	768.6	38.3	3.5	79	sw.	7.2	3.2		6 n	4 k	s.	s.	0	0	cloudy	**Prof. L. G. Frades.**
Santiago, Met. Obs'y	29.30	744.1	30.20	767.1	56.1	13.4	78	se.	6.3	2.8			0			0	0	clear	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.99	761.7	30.05	763.2	72.4	22.4	74	ne.	9.8	4.4		1 c	2 ks		ne.	0	0	fair	**P. F. Faura, S. J.**
San Fernando, Naval Obs'y	30.19	766.9	30.29	769.5	59.5	15.3	64	e.	18.5	8.3		0	2		e.	0	0		**Capt. C. Pujazon, R. N.**
San Juan de Porto Rico, W. I	30.08	764.0	30.17	766.3	77.7	25.4	95	e.	13.9	6.2		1 s	6 k	e.	e.	0	0	cloudy	**Manuel Muesa.**
Swedish.																			
Haparanda	29.75	755.7	29.79	756.7	3.2	—16.0	100	calm			0		8			0	0		
Umea	29.80	756.8	29.85	758.1	27.7	— 2.4	71	n.			4		0			0	0		
Hernosand	29.87	758.7	29.92	760.0	32.4	0.2	71	n.			6		0			0.236	6.0		
Stockholm	29.71	754.5	29.88	759.0	32.0	0.0	60	n.			7		0			0	0		
Wisby	29.70	754.4	29.76	755.9	34.5	1.4	96	n.			8		7			0.118	3.0		
Sub-series.																			
Upsala	29.79	756.7	29.88	758.9	31.3	— 0.4	74	nnw.	23.9	10.7			0			0.008	0.2		**S. G. Fineman.**
Swiss.																			
Geneva	28.90	734.0	30.38	771.7	36.0	2.2	87	sw.			1		10			0	0	misty	**The Observatory.**
Turkish.																			
Constantinople			30.17	766.2	37.4	3.0	80	n.	9	4.0			10		ne.	0	0		The Observatory.
Valona			30.15	765.9	50.4	10.2		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.82	757.4	53.1	11.7	81	n.			2		9 n		sw.	1.32	33.5		Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.82	681.2			32	0.0	49	calm			0	0	0			0	0	clear	**Fred L. Kingsbury.**
United States.																			
Albany, New York	29.44	747.8	29.53	750.0	40.8	4.9	76	s.	12	5.4			10 s			0.47	11.9	cloudy	J. O. Barnes.
Alpena, Michigan	29.06	738.1	29.77	756.1	3	—16.1	72	w.	20	8.9		0	7 s		w.	0.18	4.6	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.17	639.3	30.29	769.4	— 5	—20.6	41	ne.	1	0.4		0	0			0	0	clear	W. O. Barnes.
Assiniaboine, Ft., Montana	27.35	694.7	30.39	771.9	—16	—26.7	44	sw.	16	7.2		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.91	734.3	30.14	765.5	39.0	3.9	89	w.	15	6.7			10 ks		w.	1.74	44.2	cloudy	H. C. Smith.
Atlantic City, New Jersey	29.70	754 4	29.71	754.6	39	3.9	100	sw.	10	4.5			10n;fog			0.70	17.8	light rain	Jas. M. Watson.
Augusta, Georgia	29.81	757.2	30.01	762.2	63	17.2	93	nw.	8	3.6			10 n		w.	0.78	19.8	light rain	John Healy.
Baltimore, Maryland	29.70	754.4	29.75	755.6	38	3.3	89	calm	0	0			10s;fg			0.40	10.2	cloudy	Geo W Felger.
Barnegat, New Jersey	29.69	754.1	29.71	754.6	39.0	3.9	100	sw.	20	8.9			10n;fog			0.93	23.6	light rain	G. A. Hill.
Behring Id., Behring Sea	29.23	742.4	29.25	742.9	27.3	— 2.6		n	20	8.9			10 n		ne.	0.01	0.3	cloudy	**Leonard Steineger.**
Bennett, Fort, Dakota	28.54	724.9	30.28	769.1	—15	—26.1	69	nw.	8	3.6		3 cs	5 s	nw.	nw.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.39	695.7	30.37	771.4	— 3	—19.4	68	calm	0	0			10 s			trap.	trap.	cloudy	S. Wheaton.
Billings, Montana	26.81	681.0			— 5	—20.6	65	w	6	2.7			10 s			0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.20	716.3	30.19	766.8	—23	—30.6	100	nw.	18	8.0		hz.	0			0	0	dense haze	Cyrus Cramer.
Block Island, Rhode Island	29.63	752.6	29.66	753.4	44	6.7	93	sw.	19	8.5			10 s		sw.	0.90	22.9	cloudy	J. T. Elker.
Boise City, Idaho	27.60	701.0	30.53	775.4	— 2	—18.9	91	w.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.43	747.5	29.00	751.8	36.0	2.2	100	w.	8	3.6			10n;fg			1.01	25.7	light rain	O. B. Cole.
Brownsville, Texas	30.46	773.7	30.51	774.9	27.0	— 2.8	77	n.	14	6.3			10 s		n.	0.11	2.8	cloudy	M. McCarty.
Buffalo, New York	29.01	736.8	29.81	757.2	16.2	— 8.8	80	sw.	48	21.5			10 s		sw.	0.18	4.6	cloudy	W. Finn.
Buford, Fort, Dakota	28.13	714.5	30.33	770.4	—27	—32.8	100	w.	15	6.7		0	0			trap.	trap.	clear	F. A. Mellen.
Burlington, Vermont	29.09	738 9	29.40	746.7	39.0	3.9	82	s.	19	8.5			10 n		s.	0.08	2.0	light rain	G. C. Schaeffer.
Cairo, Illinois	30.01	762.2	30.43	772.9	8.0	—13.3	72	nw.	3	1.3		4 c	3 s	w.	nw.	0.07	1.8	fair	W. H. Ray.
Cape Henry, Virginia	29.79	756.7	29.81	757.2	64	17.8	93	sw.	22	9.8		0	9 s		sw.	0.75	19.0	cloudy	A. K. Alderson.
Cape May, New Jersey	29.71	754.6	29.74	755.4	45.0	7.2	93	sw.	14	6.3			fg.			0.96	24.4	dense fog	W. E. Smith.
Cape Mendocino, California	29.73	755.1	30.43	772.9	39	3.9	82	nw.	7	3.1		5 cs	0	nw.		0	0	fair	J. J. McLean.
Cedar Keys, Florida	30.10	764.5	30.12	765.0	64	17.8	93	s.	15	6.7		2 ck	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.39	746 5	30.26	768.6	— 9.0	—22.8	58	sw.	12	5.4			9 s		sw.	0.05	1.3	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.98	761.5	30.04	763.0	58	14.4	100	sw.	12	5.4			fg.			0	0	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.01	736.8	29.90	759.4	52.0	11.1	100	sw.	6	2.7			10 s		sw.	2.16	54.9	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.36	745.7	30.22	767.6	26.5	— 3.1	69	nw.	13	5.8		0	9 ks		nw.	2.03	51.6	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.78	604 0	30.02	762.5	0.4	—17.6	62	nw.	16	7.2		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29 41	747.0	30.16	766.1	—14.0	—25.6		sw.	9	4.0		0	0			0.10	2.5	clear	J. Mitchell.
Chincoteague, Virginia	29.74	755.4	29.76	755.9	40	7.8	100	s.	11	4.9			fg.			1.26	32.0	dense fog	C. F. Dickens.
Cincinnati, Ohio	29.60	751 8	30.29	769.4	8	—13.3	76	w.	11	4.9		7 c	0	w.		0.43	10.9	fair	R. B. Watkins.
Cleveland, Ohio	29.27	743.4	30.05	763.3	5.5	—14.7	76	w.	18	8.0			10 s		w.	0.49	12.4	cloudy	J. B. Newlin.
Coleman City, Texas	28.52	724.4	30.40	772.1	12	—11.1	64	sw.	6	2.7		0	6 s			0	0	fair	L. Dorman.
Columbus, Ohio	29.27	743.4	30.17	766.3	7	—13.9	76	w.	21	9.4		0	8 s		w.	0.52	13.2	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.40	721.3	30.42	772.7	11.8	—11.2	64	w.	6	2.7		5 cs	0			0	0	fair	J. McGlone.
Davenport, Iowa	29.45	748.0	30.16	766.1	—16	—26.7	41	w.	6	2.7		1 cs	0	w.		0.02	0.5	clear	W. B. Lamar.
Davis, Fort, Texas	25.28	642.1	30.26	768.6	24	— 4.4	67	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.60	726.4	30.40	772.1	4	—15.0	100	n.	4	1.8			10 n			0.08	2.0	light snow	D. Moore.
Deadwood, Dakota	25.23	640.8	30.17	766.3	—12	—24.4	64	ne.	12	5.4		0	0			0.02	0.5	clear	F. Willson.
Delaware Breakwater, Del.	29.72	754.9	29.74	755.4	38	3.3	100	sw.	32	14.3			fg.			0.79	20.1	dense fog	T. S. Townsend.
Denison, Texas	29.63	752.6	30.47	773.9	3.0	—16.1	100	s.	8	3.6			7 s			0	0	fair	J. W. Byram.
Denver, Colorado	24.56	623.8	30.08	764.0	6.0	—14.4	79	calm	0	0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.22	742.2	30.18	766.6	—12	—24.4	47	nw.	8	3.6		c	0			0.10	2.5	clear	F. W. Conrad.
Detroit, Michigan	29.29	744.0	30.05	763.3	1.2	—17.1	72	sw.	23	10.3		0	9 s		w.	0.18	4.6	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.51	698.7	30.36	768.6	—10	—23.3	100	sw.	4	1.8		0	0			0	0	clear	V. P. Temple.
Dubuque, Iowa	29.25	742.9	30.02	762.5	—24.7	—31.5		w.	3	1.3		0	0			0.29	7.4	clear	J. Harvey Smith.
Duluth, Minnesota	29.10	739.1	29.91	759.7	—30	—34.4	100	s.	7	3.1		0	3 s		s.	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.68	753.9	30.52	775.2	26.0	— 3.3	88	calm	0	0			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.43	645.9	30.39	771.9	—15	—26.1	61	n.	7	3.1		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.59	751.6	29.66	753.4	34	1.1	88	se.	24	10.7			ton;fg		s;se	0.40	10.2	light rain	D. C. Murphy.
Elliott, Fort, Texas	27.46	697.5	30.39	771.9	—11	—23.9	54	s.			1	0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.53	673.8	30.41	772.4	10.8	—11.8	64	n.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.18	741.2	29.95	760.7	12	—11.1	80	w.	35	15.6			10 s		w.	0.50	12.7	cloudy	Peter Wood.
Escanaba, Michigan	29.17	740.9	29.89	759.2	—14.0	—25.6	66	sw.	11	4.9		2 c	0	s.		0.17	4.3	clear	George Heathcote.
Fredericksburg, Texas	28 56	725.4	30.38	771.6	21	— 6.1	73	w.	4	1.8		4 cs	0			0	0	fair	Frank Halwegler.
Galveston, Texas	30.34	770 6	30.40	772.1	21	— 6.1	70	n.	24	10.7			10 ks		n.	0.05	1.3	cloudy	E. O'C. Machenry.
Grand Haven, Michigan	29.27	743.4	29.98	761.5	5.0	—15.0	100	sw.	26	11.6			10 n		sw.	0.28	7.1	light snow	J. E. Mueller.
Grant, Fort, Arizona	25 43	645.9	30.33	770.4	11	—11.7	83	calm	0	0		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.93	760.2	29.95	760.7	56	13.3	100	sw.	28	12.5			fg.			0.09	2.3	dense fog	R. M. Crawford.
Helena, Montana	25.91	658.1	30.34	770.6	— 3	—19.4	100	calm	0	0			10 n			0.08	2.0	light snow	N. O. Smith.
Henrietta, Texas																			J. P. Sherry.
Huron, Dakota	28.67	728 2	30.21	767.3	—17	—27.2	100	nw.	15	6.7		0	0			trap.	trap.	clear	S. W. Glenn.
Indianapolis, Indiana	29.41	747.0	30.25	768.3	— 3	—19.4	65	w.	6	3.0		0	2 s		w.	0.07	1.8	clear	**J. F. Jirdinston.**
Indianola, Texas	30.44	773.2	30.47	773.9	20.1	— 6.6	84	n.	23	10.3			10 ks		n.	trap.	trap.	cloudy	I. A. Reed.
Jacksboro, Texas	29.35	745.5	30.59	777.0	18	— 7.8	53	n.	6	2.7		0	0			trap.	trap.	clear	D. J. Carr.
Jacksonville, Florida	30.00	763.5	30.11	764.8	66	18.9	93	s.	6	2.7			10 s		s.	0	0	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.63	701.8	30.32	770.1	—14	—25.6	50	w.	1	0.4		9 c	0	nw.		trap.	trap.	cloudy	A. Schneider.
Keokuk, Iowa	29.53	750.0	30.23	767.8	—11.0	—23.9	50	sw.	10	4.5		0	0			0.08	2.0	clear	F. Z. Gosewisch.

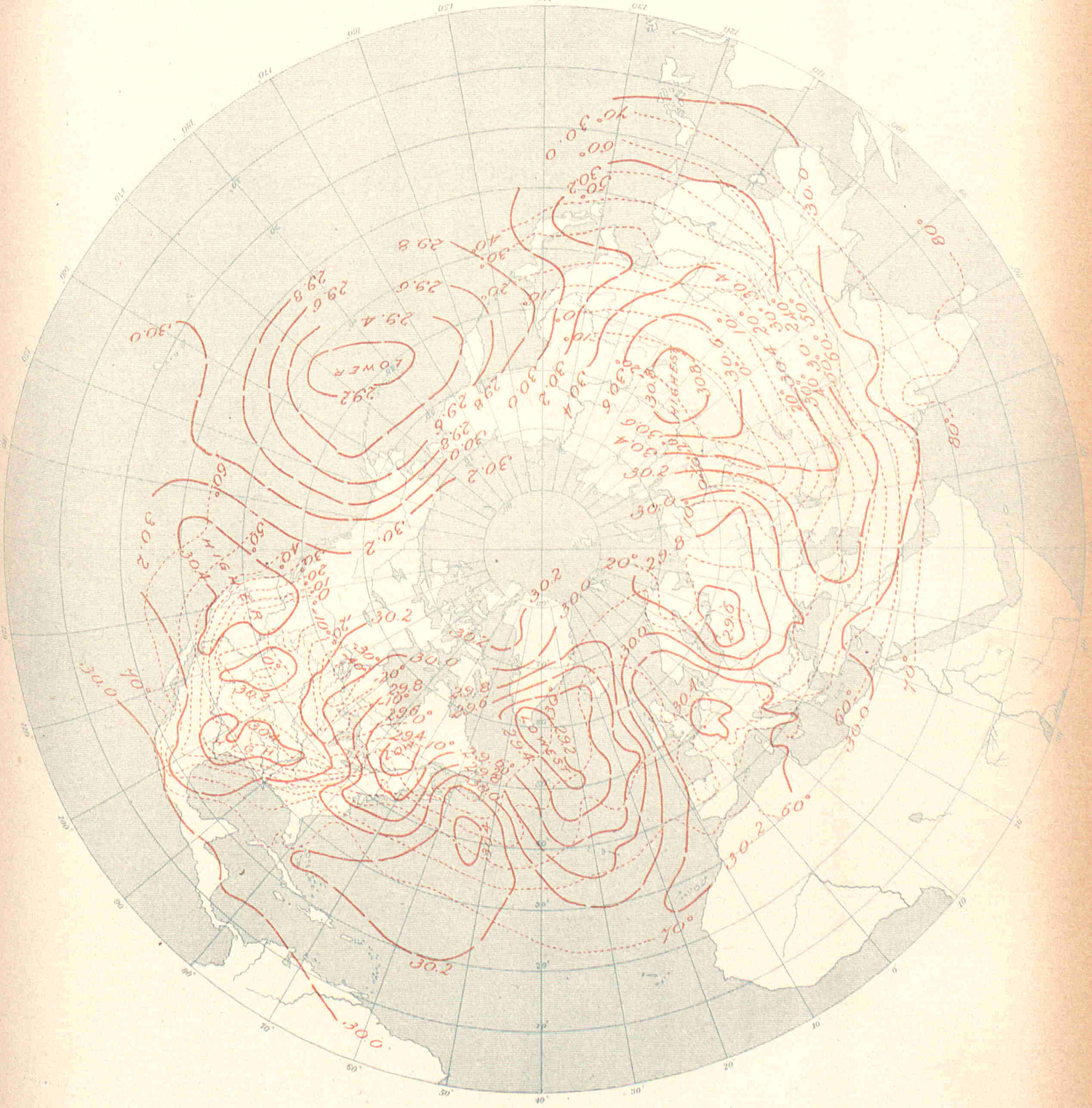
STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.13	765.3	30.15	765.8	72.0	22.2	97	se.	2	0.9		0	1 ks			0.03	0.8	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	29.88	758.9	29.90	759.4	62	16.7	96	sw.	26	11.6		7 ck	1 s	w.	w.	0.40	11.7	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.09	738.9	30.17	766.3	29.3	— 1.5	82	w.	14	6.3			10 s			1.76	44.7	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.16	740.7	30.00	762.0	—30	—34.4	100	s.	7	3.1		0	0			0.13	3.3	clear	S. C. Emery.
Leavenworth, Kansas	29.40	746.7	30.36	771.1	— 8	—22.2	76	calm	0	0		0	0			inap	inap.	clear	A. W. Browne.
Lewiston, Idaho	29.66	753.4	30.52	775.2	7.0	—13.9	87	se.	1	0.4			10 n			0.78	19.8	light snow	W. Bell.
Little Rock, Arkansas	30.12	765.0	30.45	773.4	12	—11.1	80	nw.	2	0.9			10 s			0.17	4.3	cloudy	W. U. Simons.
Los Angeles, California	30.04	763.0	30.44	773.2	34	1.1	44	ne.	9	4.0		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.71	754.6	30.30	769.6	11	—11.7	80	sw.	12	5.4			10 s			0.66	16.8	cloudy	L. M Dey.
Lynchburg, Virginia	29.08	738.6	29.80	756.9	42.5	5.8	88	w.	3	1.3		0	8 ks		sw.	1.34	34.0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.07	738.4	29.77	756.1	— 2.0	—18.9	65	w.	22	9.8		0	0			0.45	11.4	clear	F. R. Day.
Macon, Fort, North Carolina	29.98	761.5	29.99	761.7	53	11.7	100	sw.	16	7.2			10 n		sw.	0.18	4.6	light rain	William Daly.
Madison, Wisconsin	28.97	735.8	30.06	763.5	—23	—30.6	59	sw.	4	1.8		0	0			0.04	1.0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.53	648.5	30.08	764.0	—10	—23.3	57	nw.	30	13.4		0	0			0.03	0.8	clear	F. Burke.
McKavett, Fort, Texas	27.97	710.4	30.36	771.1	12	—11.1	83	calm	0	0			10 s			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.08	738.6	29.86	758.4	— 9	—22.8	85	w.	22	9.8		0	0			0.11	2.8	clear	J. Gilligan.
Memphis, Tennessee	30.08	764.0	30.44	773.2	11	—11.7	87	calm	0	0			10 s			0.14	3.6	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.27	743.4	30.07	763.8	—18	—27.8	100	w.	11	4.9		0	0			0.20	5.1	clear	W. Line.
Missoula, Fort, Montana	26.89	683.0	30.35	770.9	— 5	—20.6	65	calm	0	0			10 n			0.11	2.8	light snow	I. H. Young.
Mobile, Alabama	30.13	765.3	30.17	766.3	45.4	7.4	76	n.	12	5.4		5ck;cs	3 ks	sw.	n.	0.18	4.6	cloudy	C. A. Read.
Montgomery, Alabama	29.94	760.5	30.18	766.6	39.5	4.2	78	nw.	12	5.4		0	8 ks		sw; nw.	0.49	12.4	cloudy	J. B. McLaughlin
Moorhead, Minnesota	28.99	736.3	30.10	764.5	—38	—38.9	100	nw.	8	3.6		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.00	736.6	30.06	763.5	32.5	0.3	84	w.	28	12.5			10 s		w.	0.48	12.2	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H	23.20	589.3	29.83	757.7	34.0	1.1	100	w.	92	41.2			108;fg		w.	0.48	12.2	cloudy	S. W. Beall.
Nashville, Tennessee	29.75	755.6	30.36	771.1	15.0	— 9.4	83	nw.	15	6.7			10 ks		n.	0.50	12.7	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.52	749.8	29.64	752.8	38	3.3	100	sw.	6	2.7			108;fg		sw.	1.11	28.2	cloudy	J. H. Sherman.
New London, Connecticut	29.62	752.3	29.67	753.6	40	4.4	100	sw.	15	6.7			10 n		sw.	1.13	28.7	heavy rain	J. G. Lynch.
New Orleans, Louisiana	30.14	765.5	30.20	767.1	43.5	6.4	70	nw.	17	7.6			10 s		nw.	0.23	5.8	cloudy	L. Dunne.
Newport, Rhode Island	29.59	751.6	29.64	752.8	42.0	5.6	100	sw.	15	6.7			10n;fg			1.20	30.5	light rain	W. McGillivray.
New York, New York	29.50	749.3	29.69	754.1	37	2.8	89	sw.	8	3.6			10 s			0.90	22.9	cloudy	J. B. Merrill.
Norfolk, Virginia	29.79	756.7	29.82	757.4	58	14.4	86	sw.	16	7.2			10 n		sw.	1.56	39.6	light rain	Wm. Davis.
North Platte, Nebraska	27.12	688.8	30.24	768.1	— 8.4	—22.4	74	w.	4	1.8		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.32	770.1	30.36	771.1	28.0	— 2.2	88	calm	0	0			10 n			inap.	inap.	light snow	J. Dascomb.
Omaha, Nebraska	28.99	736.3	30.26	768.6	— 7.2	—21.8	58	w.	4	1.8		0	0			inap.	inap.	clear	A. Pollak.
Ooglaamie, Alaska	30.36	771.1	30.38	771.6	—10.8	—28.8	93	ene.	28	12.5		0	0			0	0	clear	P. H. Ray.
Oswego, New York	29.27	743.4	29.62	752.3	31.0	— 0.6	78	w.	41	18.3			10 s		w.	0.28	7.1	cloudy	J. G. Linsley.
Palestine, Texas	29.94	760.5	30.52	775.2	19.0	—12.2	68	n.	4	1.8		10 cs	0	w.		0.17	4.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.09	764.3	30.12	765.0	53.1	11.7	72	n.	11	4.9			10 s		sw.	0.11	2.8	cloudy	M. McGauran.
Philadelphia, Pa	29.60	751.8	29.71	754.6	38	3.3	100	sw.	4	1.8			fg.			0.80	20.3	dense fog	T. T. Townsend.
Pike's Peak, Colorado	17.11	434.6	29.81	757.2	—22	—30.0	100	n.			9		10 s		n.	0	0	cloudy	H. Hall.
Ploche, Nevada	24.16	613.7	30.36	771.1	42	5.6	72	nw.	1	0.4		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.15	740.4	30.00	762.0	25.0	— 3.9	73	w.	24	10.7			10 s		w.	0.68	17.3	cloudy	W. A. Reid.
Poplar River, Montana	27.97	710.4	30.32	770.1				nw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.16	766.1	30.17	766.3	53.0	11.7	77	n.	27	12.1			10 s		nw.	0.10	2.5	cloudy	H. B. Boyer.
Port Huron, Michigan	29.24	742.7	29.97	761.2	0.4	—17.6	91	sw.	23	10.3		9 cs	0	w.		0.15	3.8	cloudy	W. O. Bailey.
Portland, Maine	29.44	747.8	29.49	749.0	34.0	1.1	85	nw.	11	4.9			10n;fg			1.31	33.3	light rain	W. W. Eichelberger.
Portland, Oregon	30.41	772.4	30.48	774.2	27.8	— 2.3	80	calm	0	0			10 s			inap.	inap.	cloudy	M. L. Hearne.
Portsmouth, N. C					56	13.3	100	s.			2		fg.			0.18	4.6	dense fog	F. S. Coburn.
Prescott, Arizona	24.92	633.0	30.30	769.6	3	—16.1	96	w	1	0.4		0	0			0	0	clear	W. H. Clendenon.
Provincetown, Mass	29.56	750.8	29.59	751.6	43	6.1	93	s.	13	5.8			fg.			1.30	33.0	dense fog	P. T. Jenkins.
Punta Rassa, Florida	30.14	765.5	30.14	765.5	69	20.6	93	s.	12	5.4			hz.			0	0	clear	W. J. Evans.
Red Bluff, California	30.17	766.3	30.54	775.7	26	— 3.3	77	n.	5	2.2		5 c	0	w.		0	0	fair	J. R. Williams.
Rochester, New York	28.98	736.1	29.08	753.9	23	— 5.0	93	w.	47	21.0			10 n		w.	0.14	3.6	light snow	E. W. McGann
Roseburg, Oregon	29.97	761.2	30.54	775.7	23	— 5.0	88	calm	0	0		8 cs	0	nw.		0	0	cloudy	J. J. Nanry.
Sacramento, California	30.47	773.9	30.55	776.0	30.0	— 1.1	88	nw.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.69	754.1	30.33	770.4	— 1.9	—18.8	55	sw.	10	4.5			8 s			0.08	2.0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.56	750.8	29.59	751.6	26	— 3.3	100	ne.	18	8.0		0	8 s		ne.	0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.01	736.8	29.96	761.0	—25.0	—31.7	100	sw.	5	2.2		3 cs	0			inap.	inap.	clear	P. F. Lyons.
St. Vincent, Minnesota	29.04	737.6	30.02	762.5	—38	—38.9	100	nw.	10	4.5		0	0			0	0	clear	C. B Dilley.
Salt Lake City, Utah	25.82	655.8	30.39	771.9	8	—13.3	58	calm	0	0			10 n			inap.	inap.	light snow	J. Craig.
San Antonio, Texas	29.64	752.8	30.37	771.4	23.5	— 4.7	80	ne.	1	0.4			10 s			0	0	cloudy	T. J. Kenan.
San Diego, California	30.32	770.1	30.39	771.9	35.5	1.9	45	e.	2	0.9		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.38	746.2	30.10	764.5	2	—16.7	91	nw.	28	12.5			10 n		nw.	0.27	6.9	light snow	M. H. Perry.
Sandy Hook, New Jersey	29.64	752.8	29.67	753.6	37.0	2.8	89	sw.	10	4.5			10 n			0.84	21.3	light rain	B. A. Blundon.
San Francisco, California	30.42	772.7	30.49	774.4	39	3.9	50	nw.	6	2.7		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.15	588.0	30.20	767.1	— 6	—21.1	18	n.	26	11.6		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.96	761.0	30.06	763.5	64	17.8	87	s.	8	3.6		8 cs	0			0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.47	672.3	30.33	770.4	1	—17.2	72	e.	3	1.3		0	8 k			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	30.22	767.6	30.47	773.9	14	—10.0	64	nw.	4	1.8			10 s			0.27	6.9	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	29.06	738.1	30.39	771.9	4.5	—15.3	59	s.	3	1.3		0	0			0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.34	618.2	30.20	767.1	13.0	—10.6	83	n.	4	1.8		0	0			0	0	clear	N. D. Lane.
Sitka, Alaska	30.02	762.5	30.09	764.3	38.6	3.7	82	ne.	2	0.9		10 ck	0	ne.		0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.95	760.7	30.45	773.4	5.0	—15.0	76	calm	0	0		0	5 s			inap.	inap.	fair	J. B. Campbell.
Smithville, North Carolina	29.96	761.0	30.00	762.0	56	13.3	100	sw.	12	5.4			fg.			0.07	1.8	dense fog	O. Parker.
Spokane Falls, Wash. Ter.	28.31	719.1	30.45	773.4	— 1	—18.3	59	nw.	1	0.4		2 c	0			0.03	0.8	clear	H. Clifford.
Springfield, Illinois	29.54	750.3	30.28	769.1	— 6	—21.1	79	sw.	10	4.5		0	5 s		sw.	0.15	3.8	fair	T. B. Jennings.
Springfield, Missouri	28.80	731.5	30.32	770.1	4	—15.6	60	sw.	5	2.2		3 cs	0			0.02	0.5	clear	J. H. Bryce.
Starkville, Miss	29.85	758.2	30.35	770.9	20	— 6.7	84	nw.	14	6.3			10 s		nw.	0.71	18.0	cloudy	C. Dill.
Stevenson, Fort, Dakota	28.14	714.7	30.20	767.1	—24	—31.1	100	nw.	20	8.9		0	0			0.02	0.5	clear	W. Burrows.
Stockton, Fort, Texas	27.19	690.6	30.33	770.4	7	—13.9	80	calm	0	0		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass	29.53	750.0	29.59	751.6	41.0	5.0	100	w.	5	2.2			fg.			1.20	30.5	dense fog	G. Liebmann.
Thomas, Camp, Arizona	27.57	700.3	30.40	772.1	16	— 8.9	83	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.36	745.7	30.10	764.5	3	—16.1	72	sw.	24	10.7		3 cs	6 s	w.	w.	0.19	4.8	cloudy	A. Buell.
Tucson, Arizona	27.88	708.1	30.38	771.6	19	— 7.2	70	s.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.17	766.3	30.56	776.2	14	—10.0	80	se.	5	2.2			10 s			0	0	cloudy	J. Daly.
Verde, Fort, Arizona					10	—12.2	61	n.			1	0	0			0	0	clear	D. Brooks.
Vicksburg, Mississippi	30.12	765.0	30.39	771.9	22.0	— 5.6	74	nw.	12	5.4			10 s		nw.	0.70	17.8	cloudy	James Keneally.
Visalia, California	30.09	764.3	30.48	774.2	25.0	— 3.9	58	ne.	2	0.9		0	0			0	0	clear	O. D. Stewart
Washakie, Fort, Wyoming	24.35	618.5	30.14	765.5	—14.3	—25.7	78	s.	8	3.6		2 ck	3 k			0	0	fair	T. M. Ambler.
Washington, D. C	29.61	752.1	29.73	755.1	38.6	3.7	100	s.	2	0.9			fg.			0.65	16.5	dense fog	B. M. Purssell.
West Las Animas, Colorado	26.02	660.9	30.16	766.1	—16	—26.7	100	nw.	1	0.4		0	5 s			0	0	fair	F. H. Brandenburg.
Williamsport, Pa	29.07	738.4	29.70	754.4	38	3.3	89	e.	1	0.4			10 s		w.	0.64	16.3	threatening	B. F. Hough.
Wilmington, N. Carolina	29.03	760.2	29.99	761.7	64	17.8	90	sw.	20	8.9		0	9 s		w.	0.05	1.3	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.51	658.1	30.45	773.4	— 6.5	—21.4	63	ne.	8	3.6		0	3 s		w.	0	0	clear	J. Grover.
Yankton, Dakota	28.78	731.0	30.20	767.1	—12	—24.4	53	nw.	12	5.4		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	30.34	770.6	30.49	774.4	28.4	— 2.0	32	nw.	8	3.6		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6			53.0	11.7	66	calm	0	0			9k8;8		w.	0	0	cloudy	Joaquim Gomez.
Kingston, Jamaica, W. I	30.13	765.3	30.14	765.5	68	20.0	87	n.	1	0.4		0	0			0	0	fine	Robert Johnston.
Paramaribo, S. A	30.05	763.3	30.05	763.3	78	25.6	91	e.			3		8 ks	e	e.	0.250	6.3	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.41	747.0	29.07	761.2	78	25.6	89	calm			0	0	5 ks		calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A					75	23.9	92	ne.			1	0	0			0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.35	745.5	29.41	747.0	38	3.3	89	calm			0		10 n			1.84	46.7	rain & mist	W. J. Fisher.
St. Thomas, W. I																			Aug. Wallos
York Factory, B. A	29.90	759.4	29.07	761.2	—22.0	—30.0		nw.	28	12.5			10 n		nw.	0.00	1.5	snowing	Fortescue & Wood

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Amethyst, Port Stanley, Falkland Island†	29.13	739.9	49	9.4	87	wsw.			6		10					1	w.	drizzling.
H. M. S. Audacious, Hong-Kong, China	30.19	766.8	59	15.0	64	ene.			1		1	ene.						blue sky
H. M. S. Boadicea, St. Helena Island, Africa	30.05	763.3				var.			1–3		3							d. clouds.
H. M. S. Champion, Singapore, Malay peninsula	29.85	758.2	79	26.1	86	nne.			3		10	ne.				1	ne.	overcast.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.34	770.6	38	3.3	80	calm			0		0							blue sky.
H. M. S. Comus, N. 2° 08′, W. 88° 00′	30.03	762.7	70.5	21.4	98	s.			2		10					2	s.	raining.
H. M. S. Constance, S 12° 12′, W. 33° 09′	29.97	761.2	83	28.3		e.			4		3	ene				2	e.	d. clouds.
H. M. S. Curacoa, Yokohama, Japan	30.03	762 7	43.5	6.4	67	nnw.			1–2		2							blue sky.
H. M. S. Crocodile, N. 22° 18′, E. 37° 22′	29.88	758.9	73	22.8	75	calm			0		1							blue sky.
H. M. Dock-Yard, Bermuda, W. I.	30.24	768.1	66	18.9	97	calm			0		7							d. clouds.
H. M. S. Dryad, N. 16° 40′, E., 96° 10′	29.92	760.0	75	23.9		se.			1		4	ne.						d. clouds.
H. M. M. Eclipse, N. 18° 54′ E. 72° 49′	29.74	755.4	86	30.0		w.			1		1							blue sky.
H. M. S. Euryalus, Trincomalee, Ceylon	29.84	757.9	80	26.7	82	ne.			1		3	ne.						d. clouds.
H. M. S. Espeigle, S. 36° 29′, E. 151° 30′	29.91	759.7	67	19.4	90	s.			5		9					3	ssw.	squally.
H. M. S. Fawn, S. 18° 17′ W. 2° 16′	30.00	762.0	70.5	21.4	100	ese.			2–3		10					2	se.	showery.
H. M. S. Flying Fish, Nagasaki, Japan	30.36	771.1	41	5.0	87	calm			0		4							d. clouds.
H. M. S. Fox Hound, Sarawak, Borneo	29.90	759.4	72.5	22.5		calm			0		5							d. clouds.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.94	760.5	60	15.6	82	calm			0		0							misty
H. M. S. Heroine, S. 23° 05′, W. 37° 25′	30.03	762.7	79	26.1	86	nne.			3		4					sm'h		d. clouds.
H. M. S. Himalaya, N. 29° 50′, E. 32° 40′	29.91	759 7	67	19.4	90	sw.			2–3		3							d. clouds.
H. M. S. Iron Duke, N. 21° 00′ E. 38° 30′	29.86	758.4	79	26.1	95	n.			3		10					2	n.	d. clouds.
H. M. S. Kingfisher, Callao Bay, Peru	29.97	761.2	70	21.1		se			2		7							misty.
H. M. S. Lark. S. 34° 50′, E. 174° 49′	30.12	765.0	68.3	20.2	87	calm			0		6					sm'h		d. clouds.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.31	769.9	36.9	2.7	78	w.			1		0							blue sky
H. M. S. Monarch Port Said, Egypt	29.95	760.7	61	16.1	82	sw.			1		9							d. clouds.
H. M. S. Mutine, N. 12° 10′, W. 133° 55′	30.04	763.0	72.5	22.5		nne.			5		3					3	ne.	d. clouds.
H. M. S Rocket, Valdivia, Chili	30.14	765.5	58	14.4	?	calm			0		3							d. clouds
H. M. S Superb, N. 36° 50′ E. 28° 19′*	29.96	761.0	55	12.8	55	ssw.			1		2	nw.						blue sky.
H. M. S. Swiftsure, Bay of Pa, ta, Peru	30.04	763.0	67	19.4	94	e.			1		6					1	s.	d. clouds.
H. M. S. Sylvia, Borja Bay, Patagonia	29.06	738.1	44.7	7.1	83	wnw.			3–4		10							drizzling.
H. M. S. Tourmaline, Bombay, India	29.87	758.7				wnw			1		1	nw.						blue sky.
H. M. S. Tyne, N. 33° 54′, W. 8° 21′	30.23	767.8	60	15.6	94	ssw.			1		1					sm'h		blue sky.
H M. S. Woodlark, Bushire, Persia	29.87	758.7	67.5	19.7	69	sse.			6–7		8	sse.				4	sse.	showery.
Portuguese Naval.																		
Tamega, Macao, China	30.22	767.6	60.8	16.0	79	ese.			4		0							blue sky.
United States Naval.																		
Navy Yard, Pensacola, Fla*	30.05	763.3	53	11.7	86	n.	5	2.2			10		n.	0.43	10.9			cloudy.
Navy Yard, Portsmouth, N. H*	29.60	751.8	33	0.6	90	ne.	6	2.7			10		ne.	0.9	23.			misty.
Naval Hospital, Yokohama, Japan*	30.02	762.5	35.5	1.9	56	n.			1		0			0	0			clear.
Adams, Sitka, Alaska†	30.09	764.3	37	2.8	90	ne.			1		10							cloudy.
Alaska, Mare Island, Cal	30.44	773.2	34	1.1	69	calm			0		0							clear.
Alliance, N. 16° 47′, W. 80° 22′	30.06	763.5	80	26.7	82	e.			5		2			light	light	mod.		fair.
Brooklyn, Keel Point, Patagonia*	29.27	743.4	56	13.3	68	wsw.	21	9.4			8		sw.	0	0	mod.	sw.	fair.
Colorado, New York, N. Y	29.87	758.7	39	3.9	90	sw.	2	0.9			10			1.22	31.0			hazy.
Enterprise, N. 29° 36′, W. 38° 36′*	30.07	763.8	66	18.9	83	nw.			5		8		wnw.			long		sprinkling.
Essex, Callao, Peru	29.93	760.2	68	20.0	84	se.			1		10							overcast.
Franklin, Norfolk, Va	29.79	756.7	63	17.2	94	sw.	16	7.2			8		ssw.	0.59	15.0			fair.
Galena, Montevideo, Urugnay*	30.02	762.5	71	21.7	75	nnw.			3		2					sm'h		fair.
Hartford, Callao, Peru*	29.91	759.7	68	20.0	94	sse			1		8		sse.			sm'h	s.	cloudy.
Independence, Mare Island, Cal	30.48	774.2	31	— 0.6	?	e.			2		0			0	0			hazy.
Iroquois, Callao, Peru	29.99	761.7	67	19.4	100	sse.			1		8							cloudy.
Jamestown, N. 39° 38′ W. 67° 31′	29.84	757.9	55	12.8	100	ssw.			6		10		ssw.			mod.	s.	cloudy
Juniata, Gibraltar, Mediterranean*	30.32	770.1	59	15.0	94	wsw.			5		8		e.	sli't	sli't			threatening.
Kearsarge, N. 11° 12′, W. 65° 18′	30.05	763.3	76	24.4	95	e.			2		8		e.			sm'h		fair.
Lackawanna, N. 19° 25′, W. 150° 20′*	30.14	765.5	72	22.2	80	ene.			4		2		ne.			long	e.	clear.
Lancaster, Villefranche, France	30.23	767.8	62	16.7	46	s.			1		0							clear.
Michigan, Erie, Pa	30.47	773.9	9	—12.8	57	w.			5		8		e.					cloudy.
Minnesota, New York, N. Y	30.69	779.5	39	3.9	100	sw.	6	2.7			10							foggy.
Monocacy, Nagasaki, Japan	30.35	770.9	44	6.7	84	calm			0		2		nw.					fair.
New Hampshire, Newport, R. I	29.59	751.6	43	6.1	100	sw.			5		10		sw.			sm'h		rain & fog.
Nipsic, Lisbon, Portugal	30.31	769.9	59	15.0	76	e.			3		0							clear.
Onward, Callao, Peru*†	30.07	763.8	67	19.4	94	se.			2		10		n.					cloudy.
Palos, Tientsin, China*	30.16	766.1	26	— 3.3	88	e.			1		5		sw.					fair.
Pensacola, Payta, Peru*	29.88	758.9	69	20.6	95	calm	0	0			5			0	0	sm'h		fair.
Portsmouth, Boston, Mass	29.59	751.6	37	2.8	100	w.			1		10							rain & fog.
Powhatan, Boston, Mass	29.59	751.6	36	2.2	90	nw.			1		10							foggy.
Quinnebaug, Genoa, Italy	30.29	769.4	53	11.7	93	calm			0		2		calm					clear.
Ranger, N. 26° 27′, W. 113° 01′*	30.17	766 3	55	12.8	87	n.			3		0			0	0	sm'h		clear.
Richmond, Mouth Canton River*	30.11	764.8	60	15.6	76	se.			1		0			0	0			hazy.
Saratoga, New York, N. Y	29.70	754.4	36	2.2	90	sw.			2		10		sw.	light	light			overcast.
St. Louis, League Island, Pa	29.73	755.1	35	1.7	90	wsw.			2		10			0.60	15.2			cloudy.
Tennessee, St. Thomas Island, W. I*	30.07	763.8	78	25.6	82	ene.	26	11.6			5			0.05	1.3	mod.	ne.	fair.
Vandalia, Samana Bay, San Domingo, W. I*	30.15	765.8	75	23.9	90	ne.			1		8		e.					fair.
Wabash, Boston, Mass	29.62	752.3	36	2.2	90	wsw.	3	1.3			10		w.	0.75	19.0			cloudy.
Wachusetts, N. 37° 00′ W. 124° 17′	30.33	770.4	46	7.8	92	wsw.			3		8					mod.		cloudy.
Wyandotte, Washington, D. C	30.05	763 3	37	2.8	80	nw.			5		10							cloudy.
Yantic, Great Corn Island, Nicaragua	30.02	762.5	78	25.6	86	ene.			2		5							fair.
Merchant Marine.																		
S. S. Grecian, Havre, France*	30.39	771.9	42	5.6	83	ese.			1		0			0	0			clear.
S. S. Nova Scotian, N. 55° 20′, W. 12° 47′	29.76	755.9	50	10.0		sse.			4		10		sse.			long	sse.	cloudy.
S. S. Scandinavian, N. 48° 24′, W. 41° 43′	29.74	755.4	32	0.0		nw.			6		10		nw.	shr's	sh'rs	high	nw.	showery.
S. S. British Crown, N. 42° 25′, W. 47° 52′†	30.20	767.1	34	1.1		nnw.			6		9		n.	hail	hail	h'vy	n.	hailing.
S. S. British Prince, N. 48° 39′ W. 31° 13′			46	7.8		wnw.			4		6		wnw.	snow	snow	r'gh	w.	squally.
S. S. Indiana, N. 46° 44′, W. 39° 39′			39	3.9	82	nne.			8		2		ne.			h'vy	n.	clear.
S. S. Lord Clive, Philadelphia, Pa						calm			0		fg.			12 h'r	12 h'r			foggy.
S. S. Lord Gough, N. 51° 47′, W. 8° 09′	30.22	767.6	48	8.9		sse.			3		27		s.	0	0	sm'h		cloudy.?
S. S. Ohio, N. 41° 09′, W. 66° 20′			48	8.9	92	ssw.			5		10		e.			chop	ssw.	misty.
S. S. Pennsylvania, Delaware River†	29.65	753.1	45	7.2	100	s.			2		10		sw.	0	0			foggy.
S. S. Stella, N. 41° 00′, W. 52° 21′	30.37	771.4	39	3.9		n.			2		3		s.	1 h'r	1 h'r	3	nw.	d. clouds.
S. S. Anchoria, N. 53° 05′ W. 28° 23′†	29.29	744.0				sw.			5		8		sw.	0	0	h'vy	w.	cloudy
S. S. Bolivia, N. 55° 25′, W. 11° 58′	29.95	760.7	50	10.0	86	ssw.			6		10		sw.	shr's	shr's	h'vy	ssw.	overcast.
S. S. Dorian, Gibralter, Mediterreanean*	30.32	770.1	52	11.1		e.			6		4		e.	0	0			fine.
S. S. Ailsa, N. 23° 57′, W. 74° 09′†	30.30	769.6	74	23.3	95	e			4		5		se.	0	0	mod.	e.	fair.
S. S. Ambrose, Manaos, Brazil†	30.04	763.0	79	26.1		var.			2		2			4 h'r	4 h'r			fine.
S. S. Landaff City, N. 51° 10′, W. 5° 00′ †*	30.30	769.6				s.			6		7		s.	0	0	sm'h		fine.
S. S. Auckland, S. 43° 33′, W. 35° 33′	29.47	748 5	55	12.8	93	w.			4		7					h'vy	n.	blue sky.
S. S. City of Agra, S. 31° 59′, W. 30° 40′	30.13	765.3	75.2	24.0	86	n.			4		9							showery.
S. S. Gordon Castle, N. 50° 01′, W. 2° 51′	30.35	770.9	47.5	8.6	92	sse.			2–3		9							d. clouds.
S. S. Scotia, N. 23° 22′, E. 36° 55′	29.86	758.4	81	27.2	52	nnw.			2–5		2							blue sky.
S. S. Mexico, N. 25° 46′, W. 113° 18′†	30.14	765.5	59	15.0	76	nne.			5		0					long	wnw.	
S. S. Bothnia, N. 45° 50′, W. 41° 27′	29.67	753.6	43	6.1	?	n.			8		6		nw.	hail	hail	r'gh	n.	squally.
S. S. Marathon, N. 42° 20′ W. 66° 50′	29.80	756.9	44	6.7		s.			5		10		s.	12 h'r	12 h'r	r'gh	se.	foggy.
S. S. Parthia, N. 40° 39′, W. 71° 28′	29.78	756.4	46	7.8	100	w.			5		10		sw.	4 h'r	4 h'r	sm'h	w.	overcast.
S. S. Pavonia, N. 42° 54′, W. 48° 35′	30.21	767.3	34	1.1	79	nnw.			6		8		nnw.	0	0	long	n.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																		
S. S. Rhiwladda, N. 47° 07′ W. 40° 03′*†	29.70	754.4	35	1.7	.....	wnw.	.....	.....	9	.....	6	.....	wnw.	0	0	r'gh	w.	stormy.
S. S. France, N. 46° 14′, W. 45° 06′†	29.93	760.2	53.6	12.0	.....	n.	.....	.....	8	.....	10	.....	nw.	.....	.....	h'vy	nw.	snowing.
S. S. Ville de Marseilles, N. 21° 23′, W. 58° 55′*†..	30.35	770.9	82	27.8	.....	ne.	.....	.....	5	.....	0	.....	.....	0	0	sm'h	ne.	clear.
S. S. Abyssinia, N. 44° 04′, W. 49° 20	30.31	769.9	31	—0.6	89	nw.	.....	.....	5	.....	10	.....	nw.	0	0	r'gh	n.	cloudy.
S. S. Bohemia, Hamburg, Germany *†.....	30.30	769.6	.....	.....	.....	nw.	.....	.....	5	.....	10	.....	nw.	0	0	.....	.....	squally.
S. S. Frisia, N. 46° 43′ W. 41° 48′.....	29.80	756.9	.....	.....	.....	n.	.....	.....	7	.....	6	.....	nw; ne.	snow	snow	h'vy	nw.	fair.
S. S. Rugia, New York, N. Y	29.72	754.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
S. S. Silesia, Hamburg, Germany.....	.....	.....	35.0	1.7	.....	wnw.	.....	.....	5	.....	5?	.....	nw.	0	0	.....	.....	cloudy.
S. S. Vandalia, Hamburg, Germany.....	30.45	773.4	36.5	2.5	.....	nw.	.....	.....	3	.....	10	.....	nw.	.....	.....	.....	.....	hazy.
S. S. Wieland, N. 43° 30′, W. 57° 19′.....	30.40	772.1	.....	.....	.....	ese.	.....	.....	3	.....	10	.....	se.	0	0	sm'h	se.	cloudy.
S. S. Archimedes, Rio de Janeiro, Brazil	29.90	759.4	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	.....	clear.
S. S. Hevelius, N. 10° —′, W. 26° 15′†	30.16	766.1	76	24.4	.....	ene.	.....	.....	4	.....	5	.....	ese.	0	0	sm'h	.....	misty.
S. S. Ptolemy, S. 6° 20′, W. 31° 10′.....	29.98	761.5	81	27.2	78	e.	.....	.....	3	c	4 k	n.	.....	0	0	.....	se.	blue sky.
S. S. Sirius, N. 39° 40′, W. 73° 20′*.....	29.64	752.8	.....	.....	.....	sw.	.....	.....	4	.....	10	.....	w.	8 h'r	8 h'r	mod.	e.	dense fog.
S. S. Bulgarian, N. 51° 18′, W. 15° 55′*.....	29.69	754.1	.....	.....	.....	sse.	.....	.....	8	.....	10	.....	sse.	2 h'r	2 h'r	high	s.	
S. S. Virginian, N. 49° 28′, W. 34° 11′ *.....	29.23	742.4	44	6.7	.....	nw.	.....	.....	8	.....	6	.....	nw.	3 h'r	3 h'r	h'vy	nw.	squally.
S. S. Colorado, off Galveston, Texas †.....	30.30	769.6	20	—6.7	.....	nw.	.....	.....	0	.....	10	.....	nw.	0	0	small	nw.	cloudy.
S. S. Rio Grande, Matanzas, Florida†.....	30.19	766.8	70	21.1	.....	calm	.....	.....	0	.....	6?	.....	.....	0	0	.....	.....	clear.†
S. S. San Marcos, off Highland, N. J.....	.....	.....	40	4.4	.....	wsw.	.....	.....	4	.....	fg.	.....	.....	0	0	.....	.....	foggy.
S. S. Archimede, Palermo, Sicily†.....	30.11	764.8	54	12.2	61	nw.	.....	.....	2	.....	5?	.....	nnw.	3 h'r	3 h'r	.....	.....	cloudy.†
S. S. Alleghany, N. 41° —′, W. 72° —′†.....	29.78	756.4	46	7.8	.....	sw.	.....	.....	5	.....	10	.....	.....	.....	.....	long	e.	foggy.
S. S. Brooklyn, N. 51° 45′, W. 7° 35′.....	.....	.....	50	10.0	.....	s.	.....	.....	3	.....	.....	.....	s.	0	0	short	s.	overcast.
S. S. Chalmette, N. 38° 03′, W. 74° 25′†.....	29.77	756.1	52	11.1	.....	ssw.	.....	.....	6	.....	10	.....	ssw.	4 h'r	4 h'r	r'gh	s.	foggy.
S. S. New York, N. 28° 18′ W. 80° 13′†.....	30.23	767.8	77	25.0	.....	s.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Denmark, N. 49° 31′, W. 13° 55′ †.....	29.87	758.7	53	11.7	.....	sse.	.....	.....	7	.....	8	.....	sse.	sqll's	sqll's	h'vy	se.	hazy.
S. S. Egypt, N. 51° 11′, W. 22° 01′*†	29.40	746.7	.....	.....	.....	sw.	.....	.....	5	.....	5	.....	sw.	4 h'r	4 h'r	long	sw.	fair.
S. S. Erin, Liverpool, Eng	.....	.....	44	6.7	.....	s.	.....	.....	7	.....	10	.....	s.	2 h'r	2 h'r	.....	.....	
S. S. Helvetia, Liverpool, Eng	30.32	770.1	42	5.6	.....	wsw.	.....	.....	4	.....	10	.....	sw.	0	0	.....	.....	hazy.
S. S. Holland, N. 46° 41′, W. 38° 14′.....	29.43	747.5	41	5.0	.....	nnw.	.....	.....	7	.....	5?	.....	nw.	rain	rain	h'vy	nw.	cloudy†
S. S. The Queen, N. 48° 20′ W. 25° 07′.....	29.38	746.2	40	4.4	.....	ssw.	.....	.....	5	.....	8	.....	sw.	sh'rs	sh'rs	long	sw.	showery.
S. S. Santiago, N. 31° 00′, W. 74° 08′	30.21	767.3	75	23.9	90	sse.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	fine
S. S. City of Merida, N. 19° 50′, W. 90° 40′†.....	30.09	764.3	77.0	25.0	.....	se.	.....	.....	2	.....	0	.....	.....	0	0	light	e.	fine,
S. S. City of Washington, N. 24° 55′ W. 80° 10′ †.....	30.28	769.1	77	25.0	.....	ese.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	.....	fine,
S. S. America, N. 45° 55′, W. 41° 05′*.....	29.68	753.9	44.5	6.9	84	nnw.	.....	.....	8	.....	7	.....	nnw.	snow	snow	h'vy	nnw.	squally.
S. S. Braunschweig, S. 34° 45′, W. 53° 40′	29.97	761.2	69.0	20.6	82	n.	.....	.....	4	.....	2	.....	n.	0	0	light	n.	clear.
S. S. Donau, N. 49° 12′ W. 22° 25′	29.66	751.8	.....	.....	.....	ssw.	.....	.....	6	.....	10	.....	ssw.	24 h'r	24 h'r	cross	ssw.	squally.
S. S. Hohenstaufen, S. 8° 43′ W. 34° 22′	29.93	760.2	82.4	28.0	.....	ne.	.....	.....	3.	.....	9	.....	ne.	1 h'r	1 h'r	mod.	ne.	covered.
S. S. Hohenzollern, N. 36° 45′, W. 15° 30′.....	30.12	765.0	.....	.....	.....	w.	.....	.....	2	.....	2	.....	sw.	.....	.....	mod.	w.	fair.
S. S. Main, N. 42° 24′, W. 57° 48′	.....	.....	46	7.8	.....	s.	.....	.....	4	.....	10	.....	.....	snow	snow	mod.	s.	cloudy.
S. S. Neckar, N. 39° 58′, W. 70° 25′.....	29.79	756.7	49.0	9.4	93	sw.	.....	.....	4	.....	10	.....	sw.	3 h'r	3 h'r	r'gh	sw.	foggy.
S. S. Salier, N. 50° 43′ W. 33° 49′.....	29.17	740.9	40	4.4	.....	nw.	.....	.....	6	.....	10	.....	nw.	rain	rain	h'vy	nw.	light rain.
S. S. Strassburg, N. 28° 46′ W. 18° 47′	30.24	768.1	77.0	25.0	69	n to ene	.....	.....	1–3	.....	3	.....	n.	e	o	sm'h	var.	fair.
S. S. Arabic, N. 37° 19′, W. 137° 33′ †*	30.27	769.8	57	13.9	81	sse.	.....	.....	5	.....	2	.....	se.	o	o	long	w.	fine.
S. S. Belgic, N. 35° 05′, E. 143° 51′.....	.....	.....	53	11.7	48	w.	.....	.....	0	.....	1	.....	nw.	o	o	r'gh	w.	clear.
S. S. Coptic, N. 42° 32′ W. 167° 30′.....	29.13	739.9	49.5	9.7	78	w.	.....	.....	0	.....	0	.....	w	10 h'r	10 h'r	high	w.	fair.
S. S. Gaelic, N. 25° 41 , E. 119° 37′	30.24	768.1	60	15.6	94	ene.	.....	.....	5	.....	8	.....	ne.	0	0	.....	ne.	cloudy
S. S. Oceanic, San Francisco, Cal†.....	30.46	773.7	45	7.2	76	nw.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. City of Augusta, N. 33° 12′, W. 78° 32′†.....	30.07	763.8	.....	.....	.....	sse.	.....	.....	6	.....	5	.....	.....	0	0	.....	.....	clearing.
S. S. Willamette, Seattle, Wash. Ter.....	.....	.....	36	2.2	80	s.	.....	.....	1	.....	10	.....	s.	0.03	0.8	.....	.....	cloudy.
S. S. Oregon, N. 40° 30′ W. 124° 35′†.....	30.53	775.4	46.5	8.1	88	nnw.	.....	.....	3	.....	5?	.....	n.	.....	.....	sm'h	.....	clear†
S. S. Ancon, N. 37° 29′, W. 122° 32′ †.....	30.36	771.1	43	6.1	51	ne.	.....	.....	4	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. City of Chester, Bonita, Cal*†.....	30.39	771.9	43	6.1	83	e.	.....	.....	4	.....	2	.....	e.	.....	.....	long	sw.	clear.
S. S. Dakota, N. 45° 32′, W. 124° 28 *†.....	30.30	769.6	38	3.3	81	se.	.....	.....	4	.....	10	.....	se.	0	0	light	s.	cloudy.
S. S. G. W. Elder, N. 39° 30′, W. 124° 20′†.....	30.47	773.9	44	6.7	84	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Orizaba, N. 35° 15′, W. 120° 50′*†.....	30.40	772.1	44	6.7	68	ene.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	nw.	clear.
S. S. Queen of the Pacific, San Francisco, Cal†.....	30.45	773.4	.....	.....	.....	se.	.....	.....	.....	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. State of California, N. 42° 30′, W. 124° 30′†.....	30.52	775.2	43	6.1	100	se.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	w.	clear.
S. S. Victoria, San Francisco, Cal*†.....	30.46	773.7	38	3.3	.....	sse.	.....	.....	3	.....	5	.....	sse.	.....	.....	.....	.....	fair.
S. S. Australia, N. 28° 11′, W. 146° 11′*†.....	30.00	762.0	69	20.6	85	s.	.....	.....	4	.....	7	.....	sw.	1 h'r	1 h'r	long	nw.	cloudy.
S. S. City of New York, N. 34° 18′, W. 132° 24′ †.....	30.48	774.2	61	16.1	66	ene.	.....	.....	3	.....	5	.....	e.	1 h'r	1 h'r	mod.	n.	fair.
S. S. City of Pekin, N. 29° 48′ W. 168° 14′†	29.96	701.0	66	18.9	84	sw.	.....	.....	6	.....	10	.....	sw.	.....	.....	mod.	w.	cloudy.
S. S. City of Rio de Janeiro, N. 21° 31′, W. 105° 22′.....	.....	.....	72	22.2	80	ne.	.....	.....	1	.....	9	.....	sw.	0	0	light	nw.	cloudy.
S. S. City of Sydney, Sydney, N. S. W †.....	29.93	760.2	74	23.3	81	ne.	.....	.....	2	.....	10	.....	nne.	0	0	sm'h	.....	cloudy.
S. S. City of Tokei, N. 31° 30′, E 131° 30′†	30.33	770.4	53	11.7	19	n.	.....	.....	3	.....	5?	.....	ne.	2 h'r	2 h'r	small	n.	clear?
S. S. Colima, San Francisco Bay, Cal†.....	30.47	773.9	44	6.7	100	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	misty
S. S. Colon, Aspinwall, Panama†.....	29.92	760 0	80	26.7	.....	nne.	.....	.....	2	.....	3	.....	ne.	0	0	sm'h	.....	fair
S. S. Grenada, Panama, Panama †.....	29.92	760.0	75	23.9	90	nw.	.....	.....	1	.....	0	.....	.....	3 h'r	3 h'r	sm'h	nw.	clear.
S. S. San José, N. 17° 25′, W. 101° 35′*†.....	29.98	761.5	.....	.....	.....	wnw.	.....	.....	1	2 c	0	nnw.	.....	0	0	light	nw.	
S. S. Zealandia, Sydney, N. S. W*.....	29.80	756.9	72	22.2	90	e.	.....	.....	6	.....	10	.....	s.	.....	.....	.....	.....	fine.
S. S. Muriel, N. 19° 50′, W. 64° 00′ *.....	30.16	766.1	79	26.1	.....	ene.	.....	.....	4	.....	0	.....	.....	0	0	r'gh	ene.	clear.
S. S. Claudius, Colon, U. S. C. †.....	30.08	764.0	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	long	n.	fair.
S. S. Valencia, N. 38° 31′, W. 72° 55′†.....	29.84	757.9	63	17.2	78	ssw.	.....	.....	7	.....	10	.....	s.	10 h'r	10 h'r	h'vy	var.	rain & fog.
S. S. Belgenland, N. 47° 49′, W. 37° 30′†.....	29.49	749.0	42	5.6	66	nw.	.....	.....	9	.....	9	.....	nw.	rain	rain	h'vy	nw.	squally.
S. S. Nederland, N. 50° 46′, W. 27° 37′.....	.....	.....	47	8.3	88	s.	.....	.....	6	.....	5	.....	sse.	2 h'r	2 h'r	cross	s.	fair.
S. S. Rhynland, N. 40° 30′, W. 71° 00′.....	29.88	758.9	48	8.9	100	sw.	.....	.....	6	.....	10	.....	calm	.....	.....	con.	s.	dense fog.
S. S. Switzerland, N. 50° 20′, W. 2° 40′†.....	30.40	772.1	.....	.....	.....	ese.	.....	.....	2	.....	10	.....	ese.	0	0	mod.	wsw	cloudy.
S. S. Waesland, Antwerp, Belgium.....	30.46	773.7	42	5.6	.....	e.	.....	.....	3	.....	10	.....	se.	3 h'r	3 h'r	.....	.....	misty.
S. S. Leerdam, N. 49° 50′, W. 31° 31′ *.....	29.06	738.1	46	7.8	92	wsw.	.....	.....	6	.....	8	.....	w.	0	0	r'gh	w.	showery.
S. S. Maas, Rotterdam, Holland	30.40	772.1	39	3.9	.....	w.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	dense fog.
S. S. W. A. Scholten, N. 43° 15′, W. 57° 12′	30.32	770.1	34.0	1.1	90	sse.	.....	.....	6	.....	10	.....	sw.	0	0	mod.	nne.	
S. S. State of Florida, New York, N. Y.....	29.61	752.1	43	6.1	.....	sw.	.....	.....	2	.....	10	.....	calm	14 h'r	14 h'r	.....	.....	overcast.
S. S. State of Georgia, N. 55° 29′, W. 10° 37 ′†.....	30.08	764.0	49	9.4	.....	se.	.....	.....	6	.....	3	.....	se.	0	0	sharp	w.	hazy.
S. S. Baltic, N. 49° 40, W. 34° 44′ *.....	29.26	743.2	40	4.4	82	nnw.	.....	.....	6	.....	4	.....	nw.	.....	.....	r'gh	nw.	hailing.
S. S. Germanic, N. 40° 20′, W. 69° 50′†	29.80	756.9	52	11.1	.....	ssw.	.....	.....	4	.....	10	.....	sw.	shr's	shr's	h'vy	s.	raining.
S. S. Lepanto, N. 48° 13′, W. 17° 00′ *.....	29.82	757.4	54	12.2	.....	sw.	.....	.....	9	.....	5	.....	sw.	0	0	h'vy	s;sw.	fair.
S. S. Marengo, N. 49° 26′, W. 32° 30′*.....	29.30	744.2	.....	.....	.....	sw.	.....	.....	7	.....	6	.....	sw.	4 h'r	4 h'r	high	sw.	cloudy.
S. S. Otranto, N. 51° 02′, W. 40° 54′†.....	29.50	749.3	33	0.6	.....	w.	.....	.....	8	.....	10	.....	w	.....	.....	long	w.	threatening.
S. S. Romano, New York, N. Y	.....	.....	22	—5.6	.....	w.	.....	.....	3	.....	2	.....	wsw.	0	0	.....	.....	fine.
S. S. Salerno, N. 40° 26′, W., 71° 07′.....	29.74	755.4	46	7.8	.....	w.	.....	.....	5	.....	10	.....	w.	2 h'r	2 h'r	r'gh	sw.	raining.
S. S. Aries, N. 38° 56′, W. 75° 08′*†.....	29.69	754.1	.....	.....	.....	sw.	.....	.....	4	.....	fg.	.....	.....	6 h'r	6 h'r	sm'h	.....	dense fog.
S. S. Catherine Whiting, Montauk, L. I†.....	29.79	756.7	.....	.....	.....	sw.	.....	.....	6	.....	.....	.....	.....	rain	rain	h'vy	s.	
S. S. Norman, N. 41° 33′, W. 71° 00′†	29.69	754.1	.....	.....	.....	wsw.	.....	.....	4	.....	.....	.....	w.	6 h'r	6 h'r	h'vy	se.	dense fog.
S. S. Saxon, Philadelphia, Pa†.....	29.85	758.2	41	5.0	.....	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....	dense fog.
MISCELLANEOUS.																		
Bg. Abbie Clifford, Havana, Cuba, W. I†.....	30.14	765.5	67	19.4	.....	.....	.....	.....	.....	.....	2	.....	.....	0	0	.....	.....	
Schr. Abbie H Ghren, Spring Wood Mills, S. C†.....	30.01	762.2	60	15.6	.....	sw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	.....	cloudy
Bg. Alcira, N. 30° 26′, W. 66° 34′	30.32	770.1	.....	.....	.....	sw.	.....	.....	2	.....	2	.....	var.	0	0	r'gh	var.	clear.
Bk. Alpha, Demerara, Brit. Guiana*†.....	29.98	761.5	80	26.7	.....	ene.	.....	.....	4	.....	4	.....	.....	1 h'r	1 h'r	.....	.....	fair.
Schr. Annie A. Holton, Tampico, Mexico†	30.27	768.8	59	15.0	.....	n.	.....	.....	6	.....	10	.....	n.	1 h'r	1 h'r	sm'h	.....	cloudy.
Bk. Anna Thormann, S. 15° 01′ W. 9° 27′	30.04	763.0	73.4	23.0	74	e.	.....	.....	3	.....	10 kn	.....	.....	sh'rs	sh'rs	mod.	se.	cloudy.
S. S. Antonio Lopez, Barcelona, Spain	30.20	768.6	55	12.8	67	w.	.....	.....	1	.....	1	.....	.....	0	0	.....	.....	clear.
Bg. Arthur, S. 24° 03′, W. 40° 29′*†	30.10	764 5	.....	.....	.....	ne.	.....	.....	4	.....	2	.....	var.	0	0	mod.	var.	
Schr. Annie R. Lewis, N. 28° 34′. W. 62° 21′†.....	30.43	772 9	72	22.2	.....	n.	.....	.....	1	.....	2	.....	nw.	0	0	mod.	ene.	clear.
Bk. B. F. Watson, Hong Kong, China†.....	30.17	766.3	64	17.8	.....	ne.	.....	.....	4	.....	2	.....	ene.	0	0	.....	.....	clear.
Bg. Belle of the Bay, Galveston, Texas.....	.....	.....	.....	.....	.....	nnw.	.....	.....	6	.....	8?	.....	nw.	light	light	.....	.....	clear.†

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Bkt. Bonny Doon, N. 27° 47′, W. 24° 18′*†	30.04	763.0	.....	.....	.....	sw.	.....	.....	2	.....	2	.....	ssw.	0	0	long	wnw.	
Bk. Bremen, N. 26° 56′, W. 26° 43′ *	30.01	762.2	.....	.....	.....	ssw.	.....	.....	5	.....	4	.....	ssw.	0	0	mod.	var.	fair.
Bk. Champion, Philadelphia, Pa	29.60	751.8	50	10.0	.....	w.	.....	.....	3	.....	10	.....	nw.	24 h'r	24 h'r	.....	.....	drizzling.
Bk. Commerce, N. 39° 08′, W. 14° 15′ †	30.01	762.2	63	17.2	.....	sse.	.....	.....	2	.....	0	.....	.....	0	0	mod.	nw.	fine.
S. S. D. J. Foley, Puerto Bello, U. S. C*†	29.92	760.0	80	26.7	87	ene.	.....	.....	3	.....	7	.....	n.	0	0	sm'h	.....	cloudy.
S. E. B. Sutton, N. 31° 40′, W. 38° 40′ †	30.08	764.0	61.5	16.4	88	wnw.	.....	.....	6	.....	8	.....	wnw	0	0	r'gh	wnw.	cloudy.
Bk. E. D. Bigelow, N. 41° 30′, W. 25° 16′*†	29.55	750.6	.....	.....	.....	sw.	.....	.....	6	.....	8	.....	sw.	0	0	long	wnw.	threatening.
Schr. Edith R. Seward, Smithville, N. C†	29.98	761.5	50	10.0	.....	wsw.	.....	.....	2	.....	.....	.....	.....	3 h'r	3 h'r	.....	.....	foggy.
Bk. Edmund Phinney, S. 25° 09′, W. 37° 10′†	30.09	764.3	.....	.....	.....	nne.	.....	.....	3	.....	1	.....	.....	0	0	mod	ne.	clear.
S. E. J. Spicer, N. 50° 54′, W. 15° 00′	29.85	758.2	53	11.7	100	s.	.....	.....	7	.....	10	.....	wsw.	0	0	mod.	wsw.	cloudy.
Bk. E. L. Pettingill, S. 49° 31′, W. 99° 53′*†	29.90	759.4	58	14.4	.....	w.	.....	.....	6	.....	8	.....	w.	0	0	cross	w.	
Bk. Essex, Majambo, Madagascar*†	29.80	756.9	86	30.0	.....	nw.	.....	.....	3	.....	.....	.....	.....	sh'rs	sh'rs	.....	.....	
Schr. F. E. McDonald, Jacksonville, Fla†	30.07	763.8	.....	.....	.....	s.	.....	.....	1	.....	5	.....	.....	0	0	.....	.....	fair.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†	29.85	758.2	45	7.2	84	w.	.....	.....	2	.....	10	.....	calm	.....	.....	.....	.....	foggy.
S. S. Foscolia, Hartlepool, Eng	.....	.....	.....	.....	.....	wsw.	.....	.....	4	.....	5	.....	wsw.	0	0	.....	.....	dull.
Bk. Freya, Matanzas, Cuba, W. I	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	.....	hazy.
S. Geo. Stetson, S. 18° —′ W. 37° —′ *†	30.02	762.5	84	28.9	83	ese.	.....	.....	4	.....	1	.....	e.	0	0	chop	sse.	clear.
Bg. Gipsey Queen, N. 27° 05′, W. 64° 37′	.....	.....	77	25.0	.....	e.	.....	.....	6	.....	2	.....	e.	0	0	short	e.	fair.
S. Grecian, N. 33° 05′ W. 45° 30′†.	30.14	765.5	59	15.0	76	nnw.	.....	.....	6	.....	6	.....	var.	0	0	long	nnw.	fair.
Bk. Grey Eagle, S. 19° 47′, W. 38° 00′*†	29.90	759.4	.....	.....	.....	ne.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	fine.
Bk. Gronsvaer, Auckland, N. Z	30.10	764.5	75.6	24.2	.....	ne.	.....	.....	4	.....	5?	.....	n.	0	0	.....	.....	cloudy.?
Bk. Hattie G. McFarland, Demerara, Brit. Guiana*†	30.08	764.0	76	24.4	.....	e.	.....	.....	4	.....	4	.....	sw.	0	0	.....	.....	
Schr. Hattie Weston, N. 14° 24′, W. 61° 00′*†	30.20	767.1	78	25.6	.....	ene.	.....	.....	4	.....	2	.....	ene.	0	0	long	ene.	fair.
Bk. Heinrich & Tonio, N. 33° 50′, W. 24° 50′	.....	.....	65	18.3	.....	ssw.	.....	.....	5	.....	6	.....	ssw.	1 h'r	1 h'r	h'vy	nw.	fair.
Schr. Isabel Alberto, New York, N. Y†	29.78	756.4	.....	.....	.....	sw	.....	.....	3	.....	10	.....	.....	rain	rain	.....	.....	foggy.
Schr. James Slater, N. 27° 04′, W. 50° 53′ *†	30.25	768.3	72	22.2	.....	nnw.	.....	.....	2	.....	5	.....	nne.	0	0	mod.	nw.	
Bk. Johanne, N. 19° 47′, W. 33° 58′ *†	30.10	764.5	71	21.7	.....	ene.	.....	.....	2	.....	8	.....	var.	0	0	sm'h	ene.	fine.
Schr. John L. Thomas, Coche Id, S. A*†	30.10	764.5	.....	.....	.....	e.	.....	.....	2	.....	2	.....	e.	2 h'r	2 h'r	light	e.	clear.
Bkt. Josephine, S. 30° 44′, W. 27° 22′†	30.13	765.2	80	26.7	62	wnw.	.....	.....	3	.....	0	.....	.....	0	0	mod.	wsw.	clear.
S. S. J. W. Wilson, Off Sabine Light, La *†	30.15	765.3	22	— 5.6	.....	n.	.....	.....	7	.....	10	.....	.....	4 h'r	4 h'r	.....	.....	overcast.
Light House Tender, Laurel, Tampa Bay, Fla†	30.13	765.3	67	19.4	.....	s.	.....	.....	1–2	.....	10	.....	.....	0	0	.....	.....	foggy.
Bg. Lilian, N. 13° 04′, W. 60° 56′ *	30.15	765.8	79	26.1	.....	ne.	.....	.....	6	.....	6	.....	ene.	2½h'r	2½h'r	r'gh	var.	squally.
Bk. Louise Adelaide, N. 25° 30′, W. 85° 00′ *†	.....	.....	.....	.....	.....	sse.	.....	.....	2	.....	3	.....	se.	0	0	sm'h	sse.	fine.
S. S. Malabar, N. 36° 08′, W. 28° 12′ *†	29.70	754.4	.....	.....	.....	w.	.....	.....	9	.....	.....	.....	w.	13 h'r	13 h'r	h'vy	nw.	raining.
Bk. Mary A. Troop, N. 40° 15′, W. 37° 00′	.....	.....	.....	.....	.....	n.	.....	.....	9	.....	8	.....	n.	4 h'r	4 h'r	h'vy	n.	
Schr. Minnie A. Bonsall, Mayport, Fla †	30.16	766.1	70	21.1	.....	ssw.	.....	.....		.....	2	.....	sw.	.....	.....	.....	.....	fair.
S. M. P. Grace. S. 27° 49′. W. 24° 15′ *	30.09	764.3	83	28.3	.....	s.	.....	.....	1	.....	1	.....	e.	0	0	long	wsw.	
Bg. Myrtle, Barbadoes, W. I *†	29.90	759.4	.....	.....	.....	ne.	.....	.....	6	.....	8	.....	e.	12 h'r	12 h'r	.....	.....	cloudy.
Bkt. Norena, Matanzas, Cuba, W. I*†	30.23	767.8	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	fine.
Bg. O. C. Clary, N. 32° 49′, W. 76° 04′*†	30.05	763 3	74	23.3	95	ssw.	.....	.....	3	.....	1	.....	sw.	0	0	sm'h	sw.	clear.
Schr. Ocean Traveler, N. 28° 30′, W. 63° 30′ †.	30.29	769.4	.....	.....	.....	n.	.....	.....	1	.....	1	.....	.....	.....	.....	sm'h	.....	clear.
Bk. Ottawa, Alicante Harbor, Spain*	30.30	769.6	56	13.3	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S Paramita, San Francisco, Cal†	30.51	774.9	36	2.2	.....	se.	.....	.....	3	.....	.....	.....	.....	0	0	.....	.....	clear.
S. S. Peconic, N. 42° 09′, W. 36° 07′ *†	29.36	745.7	45	7.2	.....	nw.	.....	.....	6	.....	.....	.....	nnw.	rain	rain	long	nw.	raining.
S. S. Raleigh, Matanzas, Cuba, W. I*†	30.10	764.5	68	20.0	.....	calm	.....	.....	0	.....	fg	.....	.....	0	0	.....	.....	fine.
Bk. Reindeer, Martinique, W. I*	30.14	765.5	.....	.....	.....	ene.	.....	.....		.....	.....	.....	.....	0	0	.....	.....	squally.
S. Rudolph, N. 44° 07′. W. 25° 08′	.....	.....	52.4	11.3	.....	wsw.	.....	.....	4	.....	3	.....	ssw.	3 h'r	3 h'r	high	wnw.	cloudy.
Schr. S. B. Hubbard, Mayport, Fla *†	30.23	767.8	66	18.9	.....	sw.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	fine.
Bk. Southern Belle, N. 22° 55′. W. 53° 50′ *†	30.25	768.3	74	23.3	.....	ne.	.....	.....	5	.....	2	.....	ne.	0	0	sm'h	.....	clear.
S. Sovereign of the Seas, S. 9° 28′, W. 121° 27′ *†	30.18	766.6	76	24.4	86	se.	.....	.....	2	.....	2	.....	se.	0	0	sm'h	se.	clear.
Bk. Sunbeam, Lisbon, Portugal *†	30.20	767.1	56	13.3	87	ene.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Sunbeam, N. 47° 32′, W. 30° 45′	29.31	744.5	51	10.6	72	wsw.	.....	.....	6	.....	9	.....	wsw.	4 h'r	4 h'r	6	var.	d. clouds.
S. Titan, N. 10° 58′, W. 31° 04′*†	30.07	763.8	78	25.6	86	e.	.....	.....	5	.....	5	.....	e.	0	0	mod.	e.	fair.
Bk. Wandering Jew, Montevideo, Uruguay †	30.10	764.5	71	21.7	.....	nw.	.....	.....	4	.....	3	.....	nw.	0	0	.....	.....	clear.
Bk. Winifred, N. 30° 34′, W. 45° 40′ *†	30.20	767.1	.....	.....	.....	var.	.....	.....		.....	.....	.....	nw.	0	0	h'vy	nnw.	fair.
Schr. Wm. Wiler, N. 27° 56′, W. 65° 15′†	30.33	770.4	.....	.....	.....	calm	.....	.....	0	.....	2	.....	sse.	0	0	mod.	se.	fine.
Bk. Xenia, N. 13° 34′, W. 29° 55′*†	30.11	764.8	75	23.9	.....	ene.	.....	.....	6	.....	8	.....	s.	0	0	mod.	n.	cloudy.

International Chart I. January 21, 1883. Isobars and Isotherms.



By Order of the Secretary of War:
W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 22, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.34	770.5	60.8	16.0	77	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.28	769.1	55.8	13.2	57	wnw.	.....	.....	1	.....	4	.....	.....	0.043	1.1	cloudy	Thève.
La Calle	.....	.....	30.24	768.1	59.7	15.4	55	w.	.....	.....	1	.....	3	.....	.....	0.138	3.5	pretty fair	Fonfréde.
Tunis	.....	.....	30.21	767.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.31	769.8	50.0	10.0	67	e.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Pérès.
Tebessa	.....	.....	30.24	768.0	41.7	5.4	72	n.	.....	.....	1	.....	4	.....	.....	0	0	cloudy	Dognon.
Geriville	.....	.....	.....	.....	40.3	4.6	78	nne.	.....	.....	1	.....	2	.....	.....	0	0	fair	Lonchamp.
Laghouat	.....	.....	30.31	769.9	48.2	9.0	61	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.26	768.5	63.0	17.2	27	nw.	.....	.....	1	.....	2	.....	.....	0	0	fair	Malau.
Australian.																			
Melbourne, Victoria	30.08	764 0	30.17	766.3	60.5	15.8	69	sse.	8	3.6	.....	.....	10	.....	.....	0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.62	752.3	30.20	767.1	30.2	— 1.0	78	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Ivan Stczir.
Cracow, I. R Observatory	29.23	742.5	30.04	762.9	30.2	— 1.0	92	w.	6.3	2.8	.....	.....	10	.....	.....	0.039	1.0	.....	Dr. Wierzbieki.
Eperies	29.02	737.2	29.94	760.5	31.3	— 0.4	83	nw.	.....	.....	3	0	5 8	.....	se.	0.100	2.7	misty	Julius Mikolik.
Gratz	28.93	734.7	30.22	767.7	39.2	4.0	68	nw.	.....	.....	4	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.45	722.6	29.95	760.6	29.8	— 1.2	88	nw.	.....	.....	4	.....	10	.....	.....	0.031	0.8	snowing	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.95	735.4	30.38	771.6	30.2	— 1.0	78	wnw.	.....	.....	2	.....	9 k;ks	.....	.....	0.140	3.7	al. covered	The Staff.
Lemberg	28.76	730.4	29.79	756.6	30.0	— 1.1	86	n.	.....	.....	4	.....	10	.....	.....	0.272	6.9	.....	Dr. T. Stanecki.
Neu Schmecks	26.44	671.6	30.00	762.0	22.6	— 5.2	.....	ne.	.....	.....	6	.....	10	.....	.....	0.008	0.2	.....	Dr. V. von Szontagh.
Pola	30.00	762.0	30.11	764.9	48.9	9.4	54	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.41	747.1	29.87	758.7	32.9	0.5	70	n.	.....	.....	3	.....	10	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.76	755 8	30.05	763.2	36.0	2.2	51	w.	.....	.....	4	.....	8	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.04	763.1	30.14	756.6	48.0	8.9	37	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Royal Academy.
Vienna	29.49	749.0	30.24	768.2	32.7	0.4	82	w.	.....	.....	3	.....	10	.....	.....	0.012	0.3	snowing	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.38	771.6	30.48	774.2	42.4	5.8	87	s.	6	2.7	.....	.....	3	.....	.....	0.005	0.1	misty	W. Boswell
Armagh, Observatory	30.20	767.1	30.43	772.9	46.9	8.3	85	se.	12	5.4	.....	.....	7	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.50	774.7	40.3	4.6	81	se.	11	4.9	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.94	760 5	30.49	774.4	40.2	4.6	83	se.	12	5.4	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth.
Bradford, Yorkshire	30.10	764.5	30.49	774.4	41.3	5.2	91	se.	.....	.....	1	.....	10	.....	.....	0	0	misty	McLandsborough&Preston.
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	78.0	25.6	77	ne.	.....	.....	3	.....	8	.....	.....	.....	.....	overcast	Corpl. J. Surgenor, A. H. C.
Cardington	.....	.....	.....	.....	41.2	5.1	98	ne.	.....	.....	1	.....	10	.....	.....	.....	.....	foggy	John McLaren.
Chatham, School M. E.	30.41	772.4	30.55	776.0	40.7	4.8	89	ne.	.....	.....	1	.....	10	.....	.....	.....	.....	gloomy	Corpl. G. A. Pickles.
Chatham, Observatory	30.25	768 3	30.49	774.4	46.0	7.8	80	e.	.....	.....	2	.....	9	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.62	701.5	29.84	757.9	77.2	25.1	76	e.	.....	.....	1	.....	9	.....	.....	.....	.....	overcast	Corpl. F. Milner, A. H. C.
Galway	30.24	768.1	30.28	769.1	48	8.9	92	s.	.....	.....	3	.....	3	.....	.....	0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.30	769 6	30.35	770 9	58.8	14.9	88	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Sgt. J. Norris, A. H.C.
Glasgow, Observatory	30.28	769.1	30.48	774.2	41.8	5.4	87	ne.	.....	.....	1	.....	fg	.....	.....	.....	.....	foggy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.36	771.1	30.54	775.7	41.3	5.2	87	ene.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	30.19	766.8	30.51	774.9	39.0	3.9	90	ese.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	A. Collenette, F. M. S.
Kew, Observatory	30.51	774 9	30.55	776.0	42.3	5.7	83	ne.	9	4.0	.....	.....	10	.....	.....	.....	.....	misty	The Staff.
Leicester, Museum	30.26	768.6	30.52	775 2	41.5	5.3	90	se.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	30.05	763.3	30.12	765.0	56.0	13.3	94	n.	.....	.....	3	.....	6	.....	.....	0	0	d. clouds	Corpl. Keene, A. H. C
Nassau, Bahamas	30.21	767.3	30.25	768.3	70.5	21.4	100	se.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe
Oscott, St. Mary's College	30.06	763.5	30.60	777.2	40.4	4.7	87	ese.	.....	.....	3	.....	10	.....	.....	.....	.....	threatening	Rev. Jas. W. Browne
Oxford, Radcliffe Obs'y	30.29	769.4	30.52	775.2	41.7	5.4	87	ese.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	The Staff.
Plymouth	30.41	772.4	30.49	774.4	44.5	6.9	79	e.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	30.40	772.1	30.50	774.7	41.5	5.3	95	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.84	757.9	29.91	759.7	42.0	5.6	61	wsw.	.....	.....	1	.....	9	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	30.23	767.8	30.52	775.2	43.4	6.3	87	ese.	.....	.....	1	.....	10	.....	.....	0	0	overcast	W. F. Cooper.
Silloth Rectory	30.46	773.7	30.49	774.4	42.3	5.7	91	se.	.....	.....	1	.....	10	.....	.....	0.010	0.3	misty	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.51	774.9	41.1	5.1	82	se.	5	2.2	.....	.....	10	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Stratfield Turgiss	30.30	769.6	30.52	775.2	42.1	5.6	89	se.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.45	773.4	30.50	774.7	48	8.9	77	se.	.....	.....	4	.....	10	.....	.....	.....	.....	gloomy	W. Newcombe.
Valencia, Observatory	30.27	768.8	30.29	769.4	51.3	10.7	94	se.	29	13.0	.....	.....	10	.....	.....	.....	.....	raining	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	10	—12.2	.....	sw.	7	3.1	.....	3 cs	0	.....	.....	0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.59	751.6	29.63	752.6	13	—10.6	70	w.	12	5.4	.....	0	2 s	.....	w.	0.500	12.7	fair	H. J. Cundall, C. E
Chatham, N. B*	29.58	751.3	29.64	752.8	9	—12.8	69	w.	12	5.4	.....	2 k	2 ks	w.	w.	0	0	fair	G. A. Blair
Cornwall	29.82	757.4	30.04	763.0	— 1.5	—18.6	100	sw.	.....	.....	5	0	1 s	.....	.....	0	0	blue sky	Jas. Smith, M. A.
Dalhousie	29.53	750.0	29.58	751.3	6.5	—14.2	.....	w.	.....	.....	3	0	0	.....	.....	0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	29.59	751.6	29.61	752.1	7	—13.9	91	nw.	40	17.9	.....	0	8 s	.....	nw.	0.02	0.5	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.37	746.0	30.38	771.6	—37	—38.3	100	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton	29.72	754.9	29.80	756.9	8.1	—13.3	60	w.	12	5.4	.....	0	0	.....	.....	0.100	2.5	clear	Prof. Harrison, L. L. D.
Granton	29.07	738.4	30.35	770.9	—11.9	—24.4	91	w.	9	4.0	.....	0	0	.....	.....	0	0	blue sky	Jas. Grant.
Halifax, N. S*	29.64	752.8	29.78	756.4	18	— 7.8	70	w.	12	4.5	.....	2 c	0	.....	.....	1.162	29.5	clear	A. Allison.
Hamilton	29.80	756.9	30.24	768.1	— 4.3	—20.2	46	sw.	.....	.....	4	0	0	.....	.....	0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.78	756.4	30.16	766.1	— 1	—18.3	87	w.	15	6.7	.....	0	2 s	.....	w.	0	0	fair	A. P. Knight, M. A
Montreal, Quebec*	29.80	756.9	30.03	762.7	— 2	—18.9	65	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	C. H. McLeod, C. E.
Ottawa	29.77	756.1	30.05	763.3	— 4.9	—20.5	80	w.	.....	.....	1	.....	0	.....	.....	map.	map.	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.26	743 2	30.02	762.5	6	—14.4	80	s.	20	8.9	.....	10 n	.....	.....	sw.	0.30	7.6	cloudy	Rev. R. Mosley.
Peterboro	29.33	745.0	30.19	766.8	— 5.9	—21.1	60	w.	.....	.....	5	0	0	.....	.....	0	0	clear	J. Dixon, B. A.
Port Dover, Ontario	29.54	750.3	30.33	770 4	— 4	—20.0	100	w.	12	5.4	.....	0	0	.....	.....	0.01	0.3	clear	H. Morgan.
Port Stanley, Ontario	29.61	752.1	30.34	770.6	— 5	—20.6	68	w.	18	8.0	.....	0	0	.....	.....	0	0	clear	M. Payne.
Quebec, Quebec*	29.49	749 0	29.84	757 9	2	—16.7	72	nw.	.....	.....	5	0	2 c	.....	.....	0.35	8.9	clear	Capt. Ashe, R. N
Rockliffe, Ontario*	29.44	747.8	29.94	760 5	—22	—30.0	95	calm	0	0	.....	0	hz.	.....	.....	0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.33	745.0	30.13	765.3	3	—16.1	91	sw.	39	17.4	.....	.....	10 s	.....	.....	0.30	7.6	light snow	
St. Andrews, N. B	29.78	756.4	29.83	757.7	13	—10.6	64	nnw.	14	6.3	.....	2 k	0	nw.	.....	0.12	3.0	clear	
St. John, N. B	29.64	752.8	29.82	757.4	12.0	—11.1	80	nw.	20	8.9	.....	0	5 k	.....	.....	0	0	blue sky	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.41	747.0	26.6	— 3.0	.....	w.	.....	.....	7	.....	.....	.....	.....	0	0	.....	The Commandant.
Stratford	28.85	732.8	30.33	770.4	—12.5	—24.7	95	w.	10	4.5	.....	0	0	.....	.....	0.10	2.5	blue sky	C. J. Macgregor, M. A.
Sydney, C. B*	29.50	749.3	29.56	750.8	20	— 6.7	67	w.	20	8.9	.....	0	8 ks	.....	nw.	0.35	8.9	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.83	757.7	30.27	768.8	— 4	—20.0	87	w.	18	8.0	.....	0	2 ks	.....	w.	0	0	clear	Magnetic Observatory.
Windsor	29.66	753.4	29.76	755.9	15.0	— 9.4	91	calm	.....	.....	.....	0	1 ks	.....	.....	0	0	fair	Prof. W. H. Butler.
Woodstock	29.07	738.4	30.25	768.3	— 8.6	—22.6	87	.....	.....	.....	.....	0	0	.....	.....	0	0	clear	Prof. Wolverton, M. A.
Yarmouth, N. S*	29.79	756.7	29.86	758.4	20	— 6.7	80	nw.	26	11.6	.....	.....	10 k	.....	nw.	0.19	4.8	cloudy	Lt. F. E. Wilmot, R. A.
Cape Colony.																			
Cape St. Francis Lt. House	30.01	762.2	30.04	763.0	72.0	22.2	74	se.	5.7	2.5	.....	0	1 k	.....	.....	0	0	clear	John Duthie.
Springbok Fontein	27.85	707.4	.....	.....	89	31.7	47	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	24.58	624.2	.....	.....	21.9	— 5.6	.....	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.24	768.0	30.35	770.8	26.2	— 3.2	87	ne.	.....	.....	4	.....	10	.....	.....	0	0	.....	Mission, S. J.
Zi-Ka-Wei, near Shanghai	30.11	764.9	30.14	765.5	49.3	9.8	84	ese.	6.7	3.0	.....	10 ck	0	W.	.....	0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.43	772.9	30.48	774.1	33.3	0.7	87	nne.	25	11	.....	.....	4	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	30.58	776.7	30.60	777.2	34.5	1.4	72	nne.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	28.78	731.0	28.82	732.1	12.9	—10.6	83	n.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	28.79	731.3	28.81	731.8	23.2	— 4.9	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	snowing	
Jacobshavn, Greenland	29.12	739.6	29.17	740.8	— 9.0	—22.8	.....	s.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.36	745.8	29.41	746.9	40.3	4.6	92	s.	.....	.....	8	.....	10	.....	.....	.....	.....	raining	A. O. Thorlacius.
Thorshavn	30.21	767.2	30.24	768.1	48.2	9.0	77	s.	19.0	8.5	.....	.....	10	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	30.54	775.6	30.63	777.9	34.0	1.1	79	ne.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	29.47	748.4	29.51	749.6	—21.3	—29.6	.....	e.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	
FRENCH.																			
Agen, Normal School	29.81	757.1	30.50	774.6	33.8	1	100	calm	.....	.....	0	.....	fg	.....	.....	0	0	foggy	M. Labroue, Director.
Alençon, Normal School	29.92	759.9	30.47	773.9	34.5	1.4	96	nne.	.....	.....	1	.....	u	.....	.....	0	0	hazy	M. Nicot, Director.
Arras, Engineer School	30.26	768.5	30.54	775.6	32.0	0.0	.....	.....	.....	.....	2	.....	fg	.....	.....	0	0	foggy	M. Fénéon, Command't.
Avignon, Normal School	30.15	765.8	30.23	767.8	40.6	4.8	66	nw.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.91	759.7	30.50	774.6	31.8	— 0.1	96	e.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.27	768.8	30.56	776.1	33.1	0.6	88	e.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.46	748.2	30.35	770.8	42.8	6	88	ne.	.....	.....	1	.....	n	.....	sw.	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	30.14	765.6	30.42	772.7	31.8	— 0.1	98	ne.	.....	.....	1	.....	10	.....	.....	0	0	foggy	M. Rayet, Director.
Bourges, Normal School	29.88	758.9	30.47	773.8	32.0	0	96	ne.	.....	.....	1	.....	n	.....	ne.	0	0	foggy	M. Malet, Director.
Caen, Normal School	30.42	772.6	30.50	774.2	46.4	8.0	89	e.	.....	.....	1	.....	8	.....	e.	0	0	.....	M. de Kermarec, Dir.
Châlons-sur-Marne, N.Sch'l	30.10	764.4	30.50	774.6	34.5	1.4	96	nw.	.....	.....	1	.....	0	.....	.....	0	0	foggy	M. Berson, Director.
Charleville, Normal School	30.00	762.0	30.43	773.0	33.3	0.7	85	n.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Jadot, Director.
Clermont-Ferrand Obs'y	30.00	762.0	30.52	775.2	30.9	— 0.6	66	ne.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Grimard, Director.
Cluny, Normal School	29.04	737.5	30.50	774.6	26.4	— 3.1	100	n.	.....	.....	1	.....	10	.....	.....	0	0	foggy	M. Alluard, Director.
Commercy, Normal School	29.56	750.9	30.46	773.7	31.3	— 0.4	89	n.	.....	.....	1	.....	.....	.....	n.	0	0	.....	M. de Villemontée, Dir.
Gap, Normal School	29.60	751.8	30.52	775.3	32.0	0	92	ne.	.....	.....	3	.....	10 n	ne.	ne.	0	0	foggy	Dr. Goulet, Director.
Grésque, du Rhone	27.63	701.7	30.24	768.1	38.3	3.5	60	e.	.....	.....	0	1 c	0	.....	.....	0	0	.....	M. Jeangirard, Director.
Grenoble, Normal School	29.00	736.5	30.14	765.5	49.5	9.7	56	w.	.....	.....	1	.....	1	.....	sw.	0	0	.....	M. Kina, Director.
Guéret	29.60	751.9	30.41	772.5	34.9	1.6	78	ese.	.....	.....	1	.....	n	.....	ne.	0	0	.....	M. Ablard, Director.
Lamballe, Normal School	28.81	731.8	30.45	773.5	41.0	5	52	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	M. Delorme, Dir.
Lescar, Normal School	30.17	766.4	30.47	773.8	31.1	— 0.5	97	se.	.....	.....	1	.....	10	.....	se.	0	0	covered	M. Olitrault, Director.
Lorient, Naval Observatory	29.79	756.6	30.36	771.1	52.9	11.6	69	e.	.....	.....	1	0	2 k	.....	.....	0	0	slightly cl'dy	M. Chauvin, Director.
Lyon, St. Genis-Laval	30.38	771.7	30.48	774.3	33.8	1.0	92	ne.	.....	.....	1	.....	fg	.....	.....	0	0	foggy	Lt. T. Carré, Director.
Mans, Normal School	29.34	745.2	30.47	773.8	29.8	— 1.2	98	n.	.....	.....	1	.....	10 n	.....	.....	0	0	hazy	M. André, Director.
Marseille, Observatory	30.18	766.6	30.51	774.9	35.8	2.1	97	e.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Piboën, Director.
Montlouis	29.88	759.0	30.16	766.0	47.7	8.7	61	nw.	.....	.....	0.1	.....	0	.....	.....	0	0	.....	M. Stephan, Director.
Montpellier, Normal School	25.01	635.2	29.85	758.2	42.8	6.0	25	n.	15.0	6.7	.....	.....	6	n.	.....	0	0	.....	M. Caré for Dr. Fines.
Nancy, Normal School	30.12	765.0	30.25	768.4	48.9	9.4	75	wnw.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nantes, Observatory	29.63	752.6	30.47	773.8	31.3	— 0.4	89	nw.	.....	.....	1	.....	n	.....	.....	0	0	.....	M. Hasse, Director.
Perpignan, Observatory	30.35	770.8	30.51	774.9	33.6	0.9	88	ne.	.....	.....	0–1	.....	10	.....	.....	0	0	.....	M. Larocque, Director.
Pic-du-Midi, Summit	30.11	764.8	30.22	767.6	59.4	15.2	26	n.	24.2	10.8	.....	.....	1	.....	nw.	0	0	.....	Dr. Fines, Director.
Privas, Normal School	21.39	543.1	.....	.....	30.2	— 1.0	.....	ene.	.....	.....	1	.....	1	.....	ene.	0	0	.....	M. Vaussenat.
Puy de Dôme Obs'y, Summit	29.23	742.4	30.35	771.0	34.5	1.4	78	n.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.38	644.6	.....	.....	36.0	2.2	9	nne.	.....	.....	3	.....	0	.....	.....	0	0	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.40	772.1	30.43	772.9	38.8	3.8	83	ne.	.....	.....	2	.....	0	.....	.....	0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.13	765.4	30.36	771.2	34.2	1.2	81	sw.	.....	.....	1	.....	10	.....	.....	0	0	hazy	M. Brotier, Director.
Rodez, Normal School	28.16	715.2	30.37	771.5	44.6	7	57	.....	.....	.....	.....	.....	0	.....	.....	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.21	772.3	30.45	773.5	36.5	2.4	93	ne.	.....	.....	1	.....	10	se.	.....	0	0	covered	M. Moullot.
Saint Lô	.....	.....	.....	.....	30.9	— 0.6	98	se.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	30.46	773.7	30.63	777.9	35.4	1.9	63	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.69	754.1	30.42	772.7	43.3	6.3	100	ssw.	.....	.....	1	.....	8	nw.	.....	0	0	very cloudy	M. Baillaud, Director.
Tours	30.28	769.2	30.46	773.7	37.0	2.8	93	ne.	.....	.....	1	.....	10	.....	.....	0	0	hazy	M. de Tastes.
Versailles, Observatory	30.00	762.0	30.49	774.5	32.0	0.0	89	e.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	30.27	768.8	30.42	772.6	52.2	11.2	75	nw.	17.7	7.9	.....	.....	7 k	n.	w.	0	0	.....	M. Cartier, Director.
GERMAN.																			
Ansbach	28.94	735.0	30.47	774.0	33.4	0.8	74	n.	.....	.....	2	.....	3	n.	.....	0	0	.....	Prof. Jnedt.
Bamberg	29.56	750.8	30.41	772.5	35.6	2.0	70	nw.	.....	.....	3	.....	3	n.	.....	0	0	foggy	Prof. Dr. Hoh.
Berlin	30.19	766.8	30.34	770.7	34.9	1.6	56	n.	.....	.....	3	.....	9	.....	.....	0	0	.....	Dr. Lonsch.
Breslau	29.64	752.8	30.17	766.4	31.6	— 0.2	72	nnw.	.....	.....	5	.....	10	.....	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	30.02	762.4	30.48	774.3	34.9	1.6	74	se.	.....	.....	1	.....	10	ne.	.....	0	0	.....	Albert Senz.
Cassel	29.67	753.7	30.39	771.8	36.3	2.4	68	nw.	.....	.....	2	.....	4	w.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	30.10	764.4	30.48	774.1	38.3	3.5	69	n.	.....	.....	1	.....	10	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.94	735.1	30.47	773.9	29.1	— 1.6	86	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Hamburg	30.42	772.7	30.51	775.0	30.2	— 1.0	92	n.	.....	.....	2	.....	10	.....	.....	0.008	0.2	snow & haze	Wilhelm, Chief Tel.
Kiel	30.51	774.9	30.52	775.3	33.6	0.9	74	nnw.	.....	.....	2	.....	1	.....	.....	0	0	.....	E. Preller.
Leipsic, Astron'l Obs'y	29.95	760.7	30.39	772.0	33.4	0.8	78	nnw.	.....	.....	4	.....	1	n.	.....	0	0	.....	Prof. Dr. G. Karsten.
Magdeburg	30.20	767.1	30.41	772.3	29.1	— 1.6	71	nw.	.....	.....	4	0	0	.....	.....	0	0	.....	H. Leppig, Asst.
Memel	30.06	763.5	30.11	764.7	27.0	— 2.8	83	ne.	.....	.....	6	.....	10 s	.....	.....	.....	.....	snowing	Weather Observatory.
Munich	28.53	724.7	30.42	772.6	28.6	— 1.9	78	nw.	.....	.....	2	.....	10	nw.	.....	0	0	.....	Issermann.
Neufahrwasser	30.08	764.2	30.10	764.6	32.7	0.4	96	ne.	.....	.....	7	.....	10	.....	.....	0.035	0.9	snowing	Central Station.
Neustadt, Palatinate	29.92	760.0	30.46	773.6	37.6	3.1	76	ne.	.....	.....	1	.....	10	n.	.....	0	0	foggy	A. Lothes.
Stuttgart	29.48	748.9	30.43	773.0	32.0	0	85	e.	.....	.....	1	.....	10	.....	.....	0	0	foggy	Dicknether.
Wustrow	30.48	774.1	30.50	774.7	33.4	0.8	85	n.	.....	.....	4	0	5 k	.....	.....	0	0	.....	Prof. Dr. Schoder.
GREEK.																			Profs. Brandes & Reimer.
Athens	29.56	750.9	29.96	760.9	51.6	10.9	.....	ne.	.....	.....	0.5	0	0	.....	.....	0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.96	760.9	30.01	762.2	73.6	23.1	51	wsw.	14.0	6.3	.....	.....	0	.....	.....	0	0	blue sky	
Deesa	29.39	746.4	29.86	758.5	81.3	27.4	25	w.	11.0	4.9	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.86	758.4	29.90	759.3	82.2	27.9	56	nw.	11.0	4.9	.....	.....	6	w.	.....	0	0	d. clouds	
Poona, Yarrowda	28.01	711.4	29.86	758.3	81.6	27.6	25	wsw.	17.0	7.6	.....	.....	8	w.	w.	0	0	d. clouds	
Belgaum	27.33	694.2	29.85	758.2	79.6	26.4	32	sse.	2.0	0.9	.....	.....	3	sw.	.....	0	0	d. clouds	
Lahore	29.20	741.7	29.97	761.3	64.1	17.8	55	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	29.01	736.7	29.93	760.2	68.8	20.4	52	calm	0.2	0.1	.....	.....	8	.....	.....	0	0	.....	
Agra	29.33	745.0	29.91	759.8	69.2	20.7	57	e.	2.0	0.9	.....	.....	3	.....	e.	0	0	d. clouds	
Nagpur	28.87	733.3	29.94	760.4	69.7	20.9	76	w.	10.0	4.5	.....	.....	10	.....	w.	0.04	1.0	drizzling	
Jubbulpore	28.61	726.6	30.02	762.4	62.8	17.1	58	s.	4.0	1.8	.....	.....	10	.....	w.	0	0	overcast	
Lucknow	29.57	751.1	29.96	761.0	69.3	20.7	63	calm	0	0	.....	.....	6	ssw	.....	0	0	d. clouds	
Allahabad	29.64	752.7	29.96	761.0	63.1	17.3	88	calm	0	0	.....	.....	1	sw.	.....	0.05	1.3	d. clouds	
Patna	29.77	756.1	29.96	761.0	66.2	19.0	60	w.	2.3	1.0	.....	.....	10	w.	w.	0	0	overcast	
Hazaribagh	27.90	708.8	29.97	761.3	64.5	18.1	47	nnw.	4.6	2.1	.....	.....	10	.....	.....	0	0	overcast	
Cuttack	29.85	758.1	29.93	760.3	74.7	23.7	56	wnw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.93	760.2	29.95	760.7	70.7	21.5	50	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.82	757.3	29.94	760.4	68.3	20.2	72	calm	0.3	0.1	.....	.....	5	w.	.....	0	0	d. clouds	
Chittagong	29.90	759.6	30.00	761.9	68.6	20.3	61	w.	3.0	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.04	752.8	29.99	761.8	61.4	16.3	82	ne.	2.0	0.9	.....	.....	0	.....	.....	0.03	0.8	blue sky	
Zanzibar	29.74	755.5	29.77	756.1	83.7	28.7	73	ne.	6.3	2.8	.....	.....	8	.....	n.	0.55	14.0	gloomy	
Jeypore	28.45	722 5	29.95	760.7	59.7	15.4	94	nne.	16.0	7.2	.....	.....	10	.....	nw.	.....	.....	drizzling	
Bellary	28.39	721.1	.....	.....	81.5	27.5	42	e.	4	1.8	.....	3 c	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.62	752 3	.....	.....	83.3	28.5	59	ene.	1	0.4	.....	.....	8	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.73	755.1	30.15	765.9	46.2	7.9	34	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.64	752.9	30.19	766.7	41.9	5.5	69	sw.	4.9	2.2	.....	.....	0	.....	.....	0.031	0.8	.....	Prof. Schiapparelli.
Padua	30.02	762.5	30.13	765.4	42.3	5.7	67	se.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.26	743.2	30.21	767.3	38.3	3.5	76	nw.	0	0	.....	.....	1	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.95	760.6	30.14	765.6	53.1	11.7	41	se.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi
Mondovi	28.24	717.3	30.25	768.3	38.8	3.8	46	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.11	764.7	30.16	766.0	40.6	4.8	74	n.	4.3	1.9	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.87	758.6	30.13	765.3	40.5	4.7	63	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.99	761.7	30.08	763.9	48.4	9.1	77	ne.	3.8	1.7	.....	.....	5	W.	.....	0	0	.....	Prof. P. Monte.
Rome	29.96	761.0	30.14	765.6	46.0	7.8	41	n.	0	0	.....	.....	0	.....	.....	0	0	.....	Prof. P. Tachini.
Lecce	29.80	756.8	30.06	763.4	50.0	10.0	48	nne.	6.9	3.1	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.21	741.8	30.12	765.1	47.7	8.7	73	wnw.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.94	760.5	30.14	765.6	51.8	11.0	57	nw.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.90	759.4	30.15	765.9	53.6	12.0	48	nne.	6.3	2.8	.....	.....	9	.....	.....	0.130	3.3	.....	Prof. G. Cacciatore.
Syracuse	30.03	762.8	30.08	763.9	52.0	11.1	48	ne.	4.3	1.9	.....	.....	3	nne.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.61	752.0	30.14	765.6	51.1	10.6	51	nw.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.17	563.1	.....	.....	17.6	— 8.0	20	ne.	.....	.....	2	.....	0	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.21	564.2	.....	.....	28.4	— 2.0	24	n	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.98	761.4	30.01	762.2	35.2	1.8	100	calm	.....	.....	0	.....	10 ck	.....	w.	0.055	1.4	cloudy	Hattori.
Awomori	30.02	762.5	30.06	763.4	33.8	1.0	80	wsw.	8.7	3.8	.....	.....	10 s	.....	.....	0.044	1.1	overcast	K. Ogawa.
Hakodate	30.03	762.8	30.04	763.1	26.2	— 3.2	100	nnw.	7.8	3.5	.....	2	6	nw.	nw.	0	0	cloudy	
Hamamatsu	30.20	767.1	30.23	767.8	43.6	6.1	60	w.	.....	.....	2	4 c;cs	0	w.	.....	0	0	fair	
Kagoshima	30.35	770.8	30.36	771.1	48.8	9.3	70	nw.	.....	.....	2	0	9 cs	.....	sw.	0.003	0.1	cloudy	G. Miyanohaza.
Kioto	30.13	765.3	30.32	770.0	33.3	0.7	94	se.	.....	.....	.....	2 cs	0	.....	.....	0	0	clear	M. Tojima.
Kochi	30.30	769.5	30.32	770.0	40.6	4.8	85	e.	2.0	0.9	.....	0	0	.....	.....	0	0	clear	K. Kusunose.
Miasaka	30.31	769.9	30.34	770.6	49.0	9.4	62	wsw.	.....	.....	2	0	0	.....	.....	0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.13	765.3	30.34	770.7	45.5	7.5	83	calm	0	0	.....	.....	10 c	.....	sw.	inap.	inap.	overcast	S. Takehayashi.
Niigata	30.12	765 0	30.16	766.0	40.3	4.6	82	sw.	12.3	5.4	.....	.....	10 ck	.....	w.	0.080	2.0	covered	M. Morita.
Nobiru	30.02	762.5	30.03	762.9	38.1	3.4	89	nw.	7.5	3.4	.....	0	0	.....	.....	0.025	0.6	clear	H. Midzushina.
Numazu	30.12	765.1	30.16	766.0	36.0	2.2	72	calm	.....	.....	0	0	0	.....	.....	0	0	clear	R. Kaneda.
Sakai	30.25	768.4	30.26	768.6	36.0	2.2	91	wsw.	.....	.....	2	1 c	0	nw.	.....	0	0	fair	K. Yamawchi.
Sapporo	.....	.....	.....	.....	22.7	— 5.2	54	nw.	12.8	5.8	.....	2	5	w.	nw.	inap.	inap.	cloudy	
Tokei Obs'y, Yeddo	30.06	763.6	30.15	765.7	34.2	1.2	81	w.	7.7	3.4	.....	1 ck	0	w.	.....	0	0	clear	The Staff.
Wakayama	30.23	767.9	30.29	769.3	37.9	3.3	84	ne.	5.7	2.5	.....	3 ck	0	w.	.....	0	0	fair	Y. Kuwamuea.
Osaka	30.28	769.1	30.30	769.5	34.3	1.3	90	nne.	2.1	0.9	.....	8 cs	0	nw.	.....	0	0	fair	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.57	751.1	29.76	755.9	81.2	27.3	75	nnw.	17.5	7.8	.....	0	7 k;n	.....	nnw.	0.46	11.7	fair	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	49.5	9.7	96	n.	.....	.....	.....	.....	.....	.....	.....	.....	.....	clear	H. Diaz Pena.
Guanajuato	23.75	603.2	29.97	761.2	53.4	11.9	84	se.	inap.	inap.	.....	.....	10 cn	.....	wsw.	0.059	1.5	covered	Prof. Vicente Fernandez.
Leon	24.43	620.5	30.26	768.6	48.2	9.0	89	calm	.....	.....	0	0	8 ks	.....	.....	inap.	inap.	cloudy	Prof. M. Leal.
Mazatlan	29.84	758.0	30.10	764.7	61.0	16.1	80	nw.	1.6	0.8	.....	2 cs	0	.....	.....	0	0	foggy	F. Quijano, C. E.
Mexico, Central Obs'y	23.18	588.7	30.39	771.8	44.2	6.8	75	calm	0	0	.....	5 c	0	.....	.....	0	0	foggy	The Staff.
Morelia	24.18	614.2	30.02	762.4	40.6	8.1	71	e.	.....	.....	1	1 c	2 k	e.	s.	0	0	clear	M. Tena, M. D.
Pabellon	24.03	610.3	30.14	765.6	50.2	10.1	88	n.	.....	.....	1	.....	.....	.....	.....	0.080	2.0	.....	.....
Puebla, Catholic Institute	23.47	596.1	30.36	771.1	44.6	7.0	74	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
Zacatecas	22.54	572.4	30.31?	772.3?	43.1	6.1	90	ssw.	4.5	2.0	.....	.....	10 kn	.....	sw.	0.290	7.3	covered	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.58	776.6	30.58	776.6	37.9	3.3	.....	ne.	.....	.....	2	.....	.....	.....	.....	0.008	0.2	.....	
Groningen	30.51	774.9	30.56	776.3	36.9	2.7	.....	ne.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.53	775.4	30.53	775.4	38.3	3.5	90	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	
Utrecht	30.52	775.2	30.57	776.4	39.7	4.3	74	w.	.....	.....	2	.....	8	.....	.....	0.008	0.2	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.85	758.1	.....	.....	78.8	26.0	86	nnw.	0	0	.....	.....	5	.....	.....	0.75	19.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.56	776.2	30.62	777.8	34.2	1.2	78	sse.	2	1	.....	.....	2	.....	.....	0	0	.....	
Bronо	30.03	777.9	30.67	778.9	30.6	— 0.8	84	calm	0	0	.....	.....	2	.....	.....	0	0	.....	
Christiania	30.54	775.8	30.70	779.8	33.8	1.0	66	ne.	7	3	.....	.....	0	.....	.....	0	0	.....	
Gjesvær	30.45	773.2	30.47	773.8	24.8	— 4.0	.....	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	
Lodingen	30.54	775.6	30.58	776.8	34.0	1.1	81	sse.	.....	.....	6	.....	10	.....	.....	0.008	0.2	.....	
PORTUGUESE.																			
Angra, Azores	29.88	759.0	30.04	763.1	53.2	11.8	83	nne.	1.3	0.6	.....	.....	4	.....	.....	0.217	5.5	.....	Dr. J. A. Sampaio.
Campo Major	29.37	746.0	30.40	772.1	53.1	11.7	69	ssw.	0.7	0.3	.....	.....	1	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.15	765.7	30.24	768.0	66.0	18.9	60	sse.	5.6	2.5	.....	.....	10	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.07	763.7	30.44	773.2	49.1	9.5	76	nne	0.9	3.1	.....	.....	3	nw.	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	29.95	760.8	30.02	762.6	57.2	14.0	71	ne.	3.1	1.4	.....	.....	3	.....	.....	0.280	7.1	.....	
Saint Paul de Loando	29.07	753 5	29.87	758 6	81.7	27.6	69	wsw.	1.8	0.8	.....	.....	9	.....	.....	0	0	.....	
Serra da Estrella	25 55	648.9	30.36	771.2	45.0	7.2	26	ese.	3.1	1.4	.....	.....	1	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.06	738.2	30.26	768.6	4.8	—15.1	91	sw.	18	8	.....	.....	10 n	.....	.....	.....	.....	.....	Major K. Lasarew.
Archangel	30.35	770.8	30.37	771.3	4.3	—15.4	72	n.	4	2	.....	.....	10	.....	.....	0	0	.....	Capt. Sselliwerstow.
Ashurada	30.14	765.6	30.05	763.2	38.3	3.5	98	ene.	9	4	.....	ck	8 s	.....	.....	0	0	.....	
Astrakhan	30.08	763.9	29.99	761.8	29.5	— 1.4	90	sse.	4	2	.....	.....	10 ks	.....	.....	blank	blank	.....	Capt. Wisganow.
Baku	30.06	763.5	30.01	762.3	34.3	1.3	82	ssw.	4	2	.....	0	6 ks	.....	.....	0	0	.....	
Barnaul	30.09	764.3	30.69	779.5	—22.7	—30.4	79	e.	2	1	.....	.....	1	.....	.....	0	0	light clouds	Meteorological Obs'y.
Bielosersk	29.50	750.7	30.06	763.4	20.3	— 6.5	98	n.	9	4	.....	.....	10 kn	.....	.....	0.012	0.3	light snow	
Dorpat	29.89	759.1	30.15	765.7	20.8	— 6.2	100	nne.	13	6	.....	.....	10 n	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.99	736.3	30.04	762.9	8.8	—12.9	81	sw.	13	6	.....	.....	10	.....	.....	0	0	light clouds	Meteorological Obs'y.
Elisawetgrad	29.15	740.5	29.62	752.3	30.0	— 0.8	90	sw.	9	4	.....	.....	10 n	.....	.....	blank	blank	.....	
Irkutsk	28.91	734.4	30.80	783.8	—19.5	—28.6	84	calm	.....	.....	0	.....	1	.....	.....	0	0	.....	
Kasan	29.72	755.0	30.02	762.4	19.2	— 7.1	82	se.	13	6	.....	.....	10	.....	.....	inap.	inap.	.....	Observatory.
Kem	30.49	774.4	30.54	775.7	15.8	— 9.0	81	n.	22	10	.....	.....	10	.....	.....	0	0	heavy cl'ds.	
Kertch	29.74	755.3	29.76	755.8	36.9	2.7	85	calm	0	0	.....	.....	10 n	.....	.....	blank	blank	.....	Lagorio & Snatyrez.
Kieff	28.82	732.0	29.48	748.7	25.9	— 3.4	98	n.	11	5	.....	.....	10 n	.....	.....	0.205	5.2	snowing	Observatory.
Kostov	29.26	743.3	29.84	757.8	15.3	— 9.3	80	sse.	4	2	.....	.....	10 s	.....	.....	0.051	1.3	.....	
Libau	30.12	765.0	30.14	765.6	20.1	— 3.3	80	ne.	13	6	.....	.....	10	.....	.....	0.016	0.4	.....	E. Quass.
Lugan	29.53	750.1	29.73	755.1	20.4	— 3.1	80	sse.	9	4	.....	.....	9	.....	.....	0.004	0.1	.....	Meteorological Obs'y.
Moscow	29.25	742 9	29.76	755.9	19.2	— 7.1	88	sw.	3.4	1.5	.....	.....	9 n	.....	.....	0.012	0.3	snowing	
Nikolaiev	29.62	752.3	29.69	754.2	32.0	0.0	79	wsw.	22	10	.....	.....	9 n	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolalevsk-on-the-Amoor	30.05	763.3	30.14	765.5	—10.2	—20.8	69	calm	0	0	.....	.....	10	.....	.....	0	0	.....	Iwanow.
Pekin, China	30.25	768.3	30.39	771.9	28.4	— 2.0	48	calm	0	0	.....	.....	9 n	.....	.....	0	0	.....	Physicla Observatory.
Petrozavodsk	30.02	762.4	30.23	767.9	18.5	— 7.5	86	n.	16	7	.....	.....	10	.....	.....	0	0	light clouds	Dr. Bergmann.
Pinsk	29.21	741.8	29.50	750.8	30.6	— 0.8	79	n.	18	8	.....	.....	9 s	.....	.....	0.028	0.7	.....	
Poti	29.99	761.8	30.01	762.3	44.2	6.8	16	e.	4	2	.....	0	0	.....	.....	0	0	.....	
St. Petersburg	30.10	766.1	30.18	766.5	18.5	— 7.5	89	nne.	16	7	.....	.....	10 n	.....	.....	0.166	2.7	snow-drift	Central Physical Obs'y.
Samarkand	27.54	699.6	30.19	766.7	21.0	— 6.1	52	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	
Sevastopol	29.56	750.8	29.72	755.0	37.2	2.9	71	wnw.	27	12	.....	0	7 n	.....	.....	0.087	2.2	.....	
Semipalatinsk	29.90	759 5	30.07	778.9	—18.4	—28.0	83	e.	18	8	.....	.....	9	.....	.....	0	0	.....	Major Lasarew.
Staroi Bykhov	29.24	742.7	29.80	756.8	28.8	— 1.8	94	n.	11	5	.....	.....	10	.....	.....	.....	.....	light snow	
Tiflis	28.55	725.1	30.05	763.2	27.7	— 2.4	47	calm	0	0	.....	7 cs	0	.....	.....	0	0	.....	Physical Observatory.
Tomsk	30.31	769.8	30.04	778.2	—21.1	—29.5	86	se.	4	2	.....	.....	0	.....	.....	.....	.....	.....	
Viatka	29.31	744 5	29.98	761.5	18.5	— 7.5	.....	calm	0	0	.....	.....	10	.....	.....	0.130	3.3	.....	
Warsaw	29.48	748.7	29.92	759.9	31.3	— 0.4	76	n.	20	9	.....	.....	10	.....	.....	0.016	0.4	light snow	Astronomical Obs y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Wilna	29.44	747.7	29.86	758.9	27.1	— 2.7	98	nne.	7	3	.....	.....	10	.....	.....	0.008	0.2	heavy clouds	Berg, Assistant.
Yeniseisk	30.43	772.9	30.77	781.6	—20.6	—29.2	81	e.	2	1	.....	.....	0	.....	.....	0	0	.....	M. O. Marks.
Scottish.																			
Monach Lt	.....	.....	30.24	768.1	47	8.3	92	s.	.....	.....	7	.....	10	.....	.....	.....	.....	showery	J. Youngclause.
North Unst	.....	.....	30.49	774.4	.....	.....	.....	s.	.....	.....	6	.....	8	.....	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.12	765.0	30.22	767.7	54.3	12.4	57	w.	0.2	0.1	.....	0	0	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.41	772.3	30.47	773.8	51.8	11.0	71	se.	2.0	0.9	.....	0	0	.....	.....	0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.39	695.6	30.47	774.0	41.9	5.5	76	n.	0.9	0.4	.....	0	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.10	713 7	30.41	772.5	44.4	6.9	61	calm	0	0	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	30.14	765.6	30.27	768.9	58.8	14.9	54	wsw.	2.7	1.2	.....	0	0	.....	.....	0	0	clear	Olayo Diaz, Director.
Oviedo	29.55	750.6	30.43	772.8	40.1	4.5	72	s.	5.6	2.5	.....	6 n	5 k	s.	s.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.45	748.1	30.37	771.5	52.3	11.3	81	calm	0	0	.....	.....	3	.....	.....	0	0	light clouds	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.98	761.5	30.04	763.0	75.2	24.0	68	ne.	19.7	8.8	.....	3 c	1 ks	.....	.....	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.28	769.1	30.38	771.7	58.5	14.7	60	calm	0	0	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.06	763.4	30.15	765.7	75.2	24.0	87	e.	9.2	4.1	.....	5 k	3 kn	e.	e.	0	0	cloudy	Manuel Maese.
Swedish.																			
Haparanda	30.69	779.5	30.72	780.5	14.0	—10.0	94	n.	.....	.....	2	.....	8	.....	.....	0	0	.....	
Umea	30.67	779.1	30.72	780.4	21.7	— 5.7	82	ne.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Hernosand	30.60	777.3	30.65	778.6	27.7	— 2.4	75	n.	.....	.....	6	.....	9	.....	.....	0	0	.....	
Stockholm	30.25	768.4	30.43	772.9	27.0	— 2.8	83	nne.	.....	.....	7	.....	10	.....	.....	0	0	.....	
Wisby	30.22	767.5	30.28	769.0	30.2	— 1.0	88	nne.	.....	.....	7	.....	10	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.45	773.5	30.54	775.7	28.8	— 1.8	84	nne.	23.0	10.3	.....	.....	10	.....	.....	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	28.95	735.2	30.43	773.0	33.4	0.8	83	ne.	.....	.....	2	.....	10	.....	.....	0	0	covered	The Observatory.
Turkish.																			
Constantinople	.....	.....	29.95	760.8	42.4	5.8	54	ene.	6	2.5	.....	.....	10	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	30.02	762.6	49.8	9.9	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.88	758.9	54.0	12.2	84	calm	.....	.....	0	.....	10 n	.....	sw.	0.36	9.1	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.70	678.2	.....	.....	27	— 2.8	75	w.	.....	.....	1	0	5 c	.....	e.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.15	765.8	30.24	768.1	11.5	—11.4	70	w.	9	4.0	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	J. O. Barnes.
Alpena, Michigan	29.41	747.0	30.12	765.0	—10	—23.3	51	w.	16	8.0	.....	0	0	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.20	640.1	30.32	770.1	5	—15.0	90	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.32	693.9	30.36	771.1	— 2	—18.9	68	e.	2	0.9	.....	.....	10 s	.....	w.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.30	744 2	30.53	775.4	24.5	— 4.2	80	nw.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	H. C. Smith.
Atlantic City, New Jersey	30.33	770.4	30.34	770.6	21	— 6.1	42	nw.	13	5.8	.....	9 ck	0	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.32	770.1	30.52	775.2	39	3.9	54	nw.	2	0.9	.....	10 k	0	sw.	.....	0.08	2.0	cloudy	John Healy.
Baltimore, Maryland	30.35	770.9	30.40	772.1	24	— 4.4	73	w.	8	3.6	.....	2 ck	6 s	w.	w.	0	0	cloudy	Geo W Felger.
Barnegat, New Jersey	30.31	769.9	30.33	770.4	20.0	— 6.7	62	nw.	15	6.7	.....	0	4 k	.....	w.	0.06	1.5	fair	G. A. Hill.
Behring Id., Behring Sea	29.37	746.0	29.39	746.5	31.1	— 0.5	.....	n.	25	11.2	.....	.....	10 n	.....	.....	inap.	inap.	cloudy	Leonard Steineger.
Bennett, Fort, Dakota	28.81	731.8	30.55	776.0	—16	—26.7	67	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.29	693.2	30.27	768.8	— 3	—19.4	68	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	S. Wheaton.
Billings, Montana	26.87	682.5	.....	.....	15	— 9.4	67	s.	16	7.2	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	T. Gibson.
Bismarck, Dakota	28.46	722.9	30.45	773.4	—25	—31.7	100	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.17	766.3	30.20	767.1	19	— 7.2	53	nw.	24	10.7	.....	4 cs	0	nw.	.....	0	0	fair	J. T. Elker.
Boise City, Idaho	27.65	702.3	30.58	776.7	2	—16.7	91	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.98	761.5	30.15	765.8	17.0	— 8.3	51	w.	16	7.2	.....	4 cs	0	nw.	.....	inap.	inap.	fair	O. B. Cole.
Brownsville, Texas	30.47	773.9	30.52	775.2	34.0	1.1	72	n.	9	4.0	.....	.....	10 s	.....	n.	0.03	0.8	cloudy	M. McCarty.
Buffalo, New York	29.46	748.3	30.26	768.6	0	—17.8	83	sw.	26	11.6	.....	.....	10 s	.....	sw.	0.05	1.3	cloudy	W. Finn.
Buford, Fort, Dakota	28.30	718.8	30.50	774.7	—28	—33.3	100	calm	0	0	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	F. A. Mellen.
Burlington, Vermont	29.79	756.7	30.10	764.5	9.3	—12.6	78	w.	16	7.2	.....	6 cs	4 s	n.	.....	0.04	1.0	cloudy	G. O. Schaeffer.
Cairo, Illinois	30.34	770.6	30.76	781.3	9.0	—12.8	76	ne.	9	4.0	.....	.....	10 s	.....	w.	0.05	1.3	cloudy	W. H. Ray.
Cape Henry, Virginia	30.37	771.4	30.39	771.9	30	— 1.1	78	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.34	770.6	30.37	771.4	23.0	— 5.0	61	nw.	40	17.9	.....	0	9 ks	.....	sw.	0.06	1.5	cloudy	W. E. Smith.
Cape Mendocino, California	29.73	755.1	30.43	772.9	39	3.9	82	se.	6	2.7	.....	2 cs	3 s	nw.	nw.	0	0	fair	J. J. McLean.
Cedar Keys, Florida	30.35	770.9	30.37	771.4	47	8.3	48	n.	18	8.0	.....	0	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.74	755.4	30.61	777.5	—10.5	—23.6	54	sw.	8	3.6	.....	.....	10 s	.....	ne.	0.68	17.3	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.36	771.1	30.42	772.7	42	5.6	31	n.	16	7.2	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.55	750.6	30.44	773.2	33.0	0.6	50	nw.	2	0.9	.....	5 ck	3 s	nw.	n.	0.14	3.6	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.75	755.6	30.61	777.5	23.5	— 4.7	52	nw.	6	2.7	.....	.....	10 s	.....	sw.	0.06	1.5	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.02	610.1	30.26	768.6	21.4	— 5.9	40	nw.	18	8.0	.....	7 ck	0	w.	.....	inap.	inap.	fair	E. McGovern.
Chicago, Illinois	29.75	755.6	30.50	774 7	—17.0	—27.2	77	sw.	12	5.4	.....	0	0	.....	.....	0.02	0.5	clear	J. Mitchell.
Chincoteague, Virginia	30.34	770.6	30.36	771.1	26	— 3.3	54	nw.	9	4.0	.....	.....	10 ks	.....	w.	0.09	2.3	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.91	759.7	30.60	777.2	6	—14.4	52	nw.	10	4.5	.....	0	0	.....	.....	inap	inap.	clear	R. B. Watkins.
Cleveland, Ohio	29.59	751.6	30.37	771.4	— 1.3	—18.5	92	w.	18	8.0	.....	3 k	0	sw.	.....	inap.	inap.	clear	J. B. Newlin.
Coleman City, Texas	28.64	727.4	30.52	775.2	15	— 9.4	67	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	29.55	750.6	30.45	773.4	4	—15.6	60	w.	20	8.9	.....	0	5 s	.....	w.	inap.	inap.	fair	D. Cuthbertson.
Concho, Fort, Texas	28.47	723.1	30.49	774.4	19.0	— 7.2	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Davenport, Iowa	29.87	758.7	30.58	776.7	—17	—27.2	37	w.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	W. B. Lamar.
Davis, Fort, Texas	25.40	645.1	30.38	771.6	21	— 6.1	64	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.68	728.5	30.48	774.2	10.5	—11.9	78	sw.	2	0.9	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	D. Moore.
Deadwood, Dakota	25.34	643.6	30.28	769.1	4	—15.6	79	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.34	770.6	30.36	771.1	25	— 3.9	88	nw.	28	12.5	.....	.....	10 k	.....	nw.	0.02	0.5	cloudy	T. S. Townsend.
Denison, Texas	29.78	756.4	30.62	777.7	13.0	—10.6	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Denver, Colorado	24.78	629.4	30.30	769.6	32.5	0.3	44	w.	15	6.7	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.62	752.3	30.59	777.0	—15	—26.1	41	w.	2	0.9	.....	0	sk.	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.63	752.6	30.39	771.9	— 6.0	—21.1	68	sw.	20	8.9	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.79	705.9	30.54	775.7	0	—17.8	44	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	V. P. Temple.
Dubuque, Iowa	29.76	755.9	30.53	775.4	—19.7	—28.7	29	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.53	750.0	30.34	770.6	—33	—36.1	100	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.75	755.6	30.59	777.0	20.1	— 6.6	70	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.61	650.5	30.57	776.5	1	—17.2	75	n.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	J. M. Clifford.
Eastport, Maine	29.80	756.9	29.87	758.7	13.0	—10.6	61	w.	16	7.2	.....	3 c	5 s	w.	w.	0.39	9.9	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.67	702 8	30.60	777.2	5	—15.0	31	calm	.....	.....	0	0	0	.....	.....	0	0	clear	W. J. Cundall.
El Paso, Texas	26.61	675.9	30.49	774.4	19.2	— 7.1	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.56	750.8	30.33	770 4	0	—17.8	68	w.	25	11.2	.....	.....	10 s	.....	w.	0.07	1.8	cloudy	Peter Wood.
Escanaba, Michigan	29.48	748.8	30.20	767.1	—20.0	—28.9	.....	w.	15	6.7	.....	0	0	.....	.....	0	0	clear	George Heathcote.
Fredericksburg, Texas	28.72	729.5	30.54	775.7	17	— 8.3	83	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	Frank Hulwegler.
Galveston, Texas	30.54	775.7	30.59	777.0	28	— 2.2	88	n.	17	7.6	.....	.....	10 ks	.....	n.	inap.	inap.	cloudy	E. O'C. Macinerney.
Grand Haven, Michigan	29.60	751.8	30.31	769.9	— 2.0	—18.9	81	w.	22	9.8	.....	.....	10 n	.....	w.	0.16	4.1	light snow	J. E. Mueller.
Grant, Fort, Arizona	25.47	646.9	30.37	771.4	23	— 5.0	76	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.36	771.1	30.38	771.6	37	2.8	89	n.	20	8.9	.....	6 k	3 s	ne.	.....	0.08	2.0	cloudy	R. M. Crawford.
Helena, Montana	25 92	658.4	30.35	770.9	8	—13.3	100	sw.	2	0.9	.....	.....	10 s	.....	calm	0.01	0.3	cloudy	N. C. Smith.
Henrietta, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. P. Sherry.
Huron, Dakota	28.99	736.3	30.53	775.4	—16.8	—27.1	100	nw.	14	6.3	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.75	755.6	30.59	777 0	— 7	—21.7	58	w.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. F. Jirdinston.
Indianola, Texas	30.56	776.2	30.59	777.0	27.2	— 2.7	74	n.	18	8.0	.....	0	8 k	.....	w.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	29.29	744.0	30.53	775.4	28	— 2.2	64	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Jacksonville, Florida	30.38	771.6	30.43	772.9	44	6.7	45	nw.	5	2.2	.....	.....	10 s	.....	.....	0.46	11.7	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.73	704.3	30.42	772 7	—11	—23.9	54	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	A. Schneider.
Keokuk, Iowa	29.92	760.0	30.52	777.7	—13.0	—25.0	47	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.

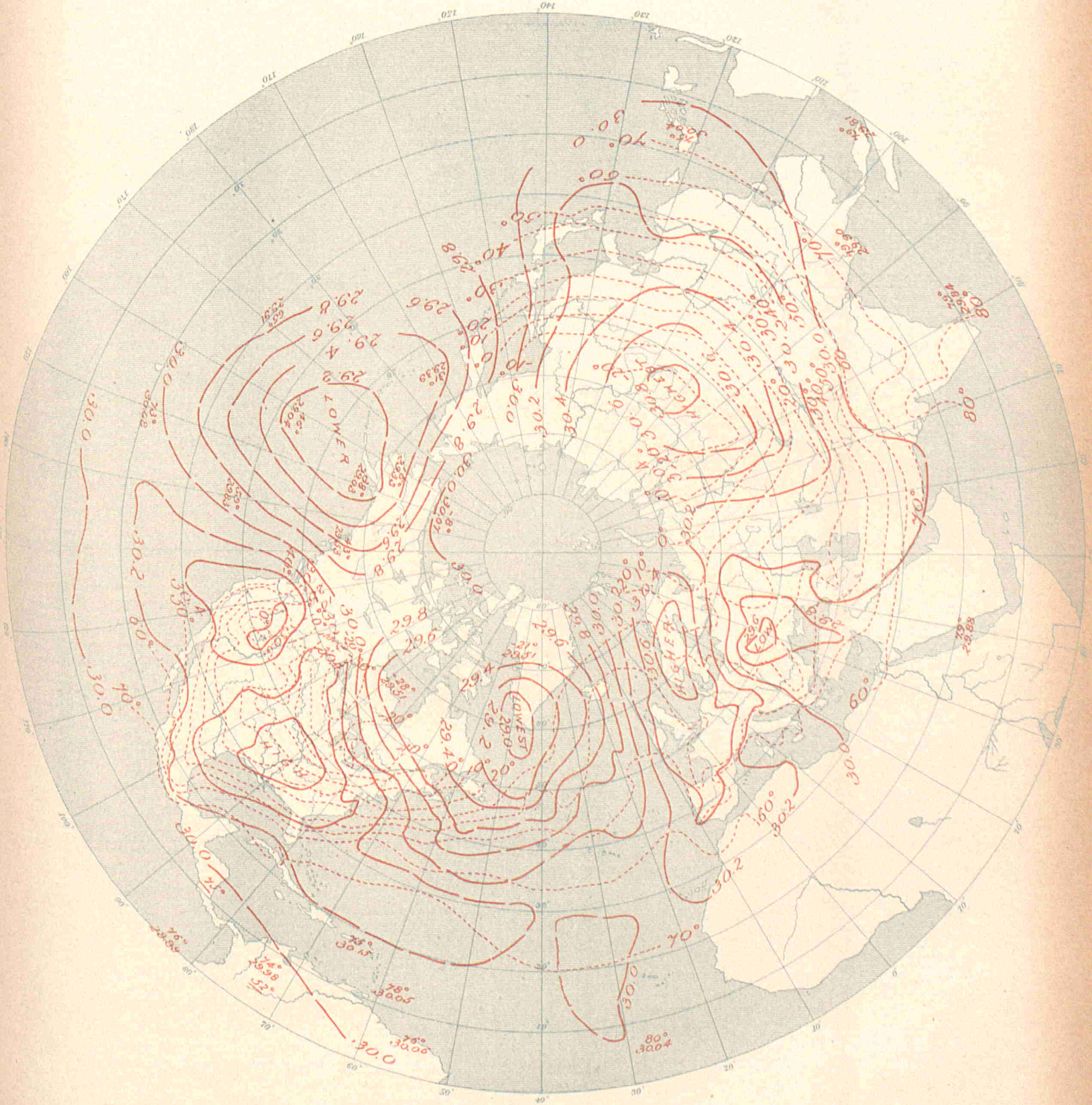
STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.16	766.1	30.18	766.6	72.0	22.2	90	calm	0	0	.....	0	3 k	.....	e.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.40	772.1	30.42	772.7	34	1.1	52	ne.	15	6.7	.....	.....	10 s	.....	ne.	0.25	6.3	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.49	749.0	30.57	776.5	18	— 7.8	67	sw.	10	4.5	.....	7 cs	0	sw.	.....	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.61	752.1	30.45	773.4	—23	—30.6	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. C. Emery
Leavenworth, Kansas	29.72	754.9	30.68	779.3	— 2	—18.9	65	calm	0	0	.....	3 k	0	n.	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.76	755.9	30.63	778.0	5.0	—15.0	87	sw.	1	0.4	.....	6 cs	0	.....	.....	0.02	0.5	fair	W. Bell.
Little Rock, Arkansas	30.31	769.9	30.64	778.2	19	— 7.2	70	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.96	761.0	30.36	771.1	44	6.7	30	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	30.04	763.0	30.63	778.0	8.5	—13.1	55	w.	14	6.3	.....	0	0	.....	.....	trap.	trap.	clear	L. M. Dey.
Lynchburg, Virginia	29.68	753.9	30.40	772.1	26	— 3.3	51	sw.	7	3.1	.....	3 cs	5 ks	sw.	sw.	0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.41	747.0	30.11	764.8	— 7.0	—21.7	76	nw.	15	6.7	.....	0	0	.....	.....	0.22	5.6	clear	F. R. Day.
Macon, Fort, North Carolina	30.36	771.1	30.37	771.4	36.0	2.2	79	n.	12	5.4	.....	.....	10 s	.....	n.	0.16	4.1	cloudy	William Daly.
Madison, Wisconsin	29.34	745.2	30.43	772.9	—22	—30.0	61	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.57	649.5	30.12	765.0	23	— 5.0	64	w.	6	2.7	.....	.....	10 s	.....	w.	0	0	cloudy	F. Burke.
McKavett, Fort, Texas	28.09	713.5	30.48	774.2	26	— 3.3	56	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.29	744.0	30.07	763.8	—14	—25.6	45	w.	23	10.3	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	30.32	770.1	30.68	779.3	16	— 8.9	83	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.62	752.3	30.42	772.7	—20	—28.9	100	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. Line.
Missoula, Fort, Montana	26.98	685.3	30.44	773.2	10	—12.2	80	n	2	0.9	.....	.....	10 s	.....	.....	0.15	3.8	threatening	I. H. Young.
Mobile, Alabama	30.48	774.2	30.52	775.2	34	1.1	52	n.	14	6.3	.....	.....	10 s	.....	n.	0	0	cloudy	C. A. Read.
Montgomery, Alabama	30.29	769.4	30.53	775.4	31	— 0.6	38	ne.	7	3.1	.....	.....	10 s	.....	w.	0	0	cloudy	J. B. McLaughlin
Moorhead, Minnesota	29.30	744.2	30.41	772.4	—33	—36.1	100	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.33	745.0	30.39	771.9	21.0	— 6.1	84	w.	21	9.4	.....	.....	10 s	.....	w.	0.01	0.3	threatening	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.01	584.4	29.64	752.8	—21.0	—29.4	100	nw.	78	34.8	.....	.....	fg.	.....	nw.	0.11	2.8	dense fog	S. W. Beall.
Nashville, Tennessee	30.04	763.0	30.65	778.5	15.0	— 9.4	74	nw.	6	2.7	.....	6 cs	0	sw.	.....	0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.12	765 0	30.24	768.1	14.5	— 9.7	45	nw.	12	5.4	.....	6 c	2 s	sw.	sw.	0.01	0.3	cloudy	J. H. Sherman.
New London, Connecticut	30.19	766.8	30.24	768.1	10	— 8.9	48	w.	12	5.4	.....	5 c	2 s	sw.	sw.	0.08	2.0	fair	J. G. Lynch.
New Orleans, Louisiana	30.46	773.7	30.52	775.2	38.5	3.6	42	ne.	10	4.5	.....	.....	10 s	.....	ne.	trap.	trap.	cloudy	L. Dunne.
Newport, Rhode Island	30.13	765.3	30.18	766.6	19.8	— 6.8	65	w.	21	9.4	.....	.....	10 s	.....	w.	0.04	1.0	cloudy	W. McGillivray.
New York, New York	30.11	764.8	30.30	769.6	16	— 8.9	67	w.	15	6.7	.....	4 cs	3 s	sw.	.....	0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	30.39	771.9	30.42	772.7	34	1.1	60	ne.	3	1.3	.....	0	7 k	.....	w.	0.11	2.8	fair	Wm. Davis.
North Platte, Nebraska	27.36	694.9	30.48	774.2	3.6	—15.8	84	calm	0	0	.....	.....	10 n	.....	.....	0.04	1.0	light snow	E. F. Brady.
Olympia, Washington T'y	30.44	773.2	30.48	774.2	33.0	0.6	88	calm	0	0	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	J. Dascomb.
Omaha, Nebraska	29.35	745.5	30.62	777.7	—10.3	—23.5	54	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Ogdaamie, Alaska	30.05	763.3	30.07	763.8	— 7.8	—22.1	100	e.	36	16.1	.....	0	0	.....	.....	0	0	clear	P. H. Ray.
Oswego, New York	29.84	757.9	30.19	766.8	11.0	—11.7	20	sw.	18	8.0	.....	.....	10 s	.....	w.	trap.	trap.	cloudy	J. G. Linsley.
Palestine, Texas	30.09	764.3	30.67	779.0	15.5	— 9.2	67	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.49	774.4	30.52	775.2	34.2	1.2	43	ne.	12	5.4	.....	0	8 s	.....	w.	0.10	2.5	cloudy	M. McGauran.
Philadelphia, Pa	30.25	768.3	30.36	771.1	22	— 5.6	73	nw.	10	4.5	.....	0	8 s	.....	nw.	0	0	cloudy	T. T. Townsend.
Pike's Peak, Colorado	17.57	446.3	30.27	768.8	—15	—26.1	100	n.	.....	.....	7	0	0	.....	.....	0	0	clear	H. Hall.
Ploche, Nevada	24.33	618.0	30.53	775.4	20.2	— 6.6	76	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.51	749.5	30.36	771.1	9.0	—12.8	87	nw.	5	2.2	.....	.....	10 n	.....	.....	0.02	0.5	light snow	W. A. Reid.
Poplar River, Montana	28.19	716.0	30.54	775.7	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.44	773.2	30.46	773.7	43.1	6.2	71	ne.	33	14.8	.....	.....	10 ks	.....	ne.	0.08	2.0	cloudy	H. B. Boyer.
Port Huron, Michigan	29.58	751.3	30.31	769.9	—11.3	—24.1	90	sw.	18	8.0	.....	0	0	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	29.98	761.5	30.03	762.7	16	— 8.9	57	w.	13	5.8	.....	8 cs	0	w.	.....	trap.	trap.	cloudy	W. W. Eichelberger.
Portland, Oregon	30.41	772.4	30.48	774.2	30.0	— 1.1	77	n.	1	0.4	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	37	2.8	72	ne.	.....	.....	1	.....	10 s	.....	sw.	0.06	1.5	cloudy	F. S. Coburn.
Prescott, Arizona	25.02	635.5	30.40	772.1	15.3	— 9.3	70	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Provincetown, Mass.	30.12	765.0	30.15	765.8	15.5	— 9.2	67	w.	14	6.3	.....	2 cs	5 s	w.	w.	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.21	767.3	30.22	767.6	67.5	19.7	97	ne.	5	2.2	.....	.....	fg.	.....	.....	0	0	dense fog	W. J. Evans.
Red Bluff, California	30.14	765.5	30.51	774.9	26	— 3.3	77	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	29.52	749.8	30.24	768.1	— 1	—18.3	68	w.	29	13.0	.....	hz.	3 s	.....	.....	trap.	trap.	clear	E. W. McGann
Roseburg, Oregon	29.95	760.7	30.52	775.2	26.4	— 3.1	88	se.	2	0.9	.....	8 c	0	w.	.....	0	0	cloudy	J. J. Nanry.
Sacramento, California	30.43	772.9	30.51	774.9	32.8	0.4	78	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	30.06	763.5	30.70	779.8	0.0	—17.8	53	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.30	744.2	29.33	745.0	16	— 8.9	100	ne.	14	6.3	.....	.....	10 s	.....	.....	trap.	trap.	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.46	748.3	30.41	772.4	—29.0	—33.9	100	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.36	745.7	30.34	770.6	—35	—37.2	100	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	C. B Dilley.
Salt Lake City, Utah	26.03	661.2	30.60	777.2	10	—12.2	76	calm	0	0	.....	0	0	.....	.....	0.02	0.5	clear	J. Craig.
San Antonio, Texas	29.86	758.4	30.59	777.0	19.5	— 6.9	53	n.	4	1.8	.....	0	1 s	.....	.....	0	0	clear	T. J. Kenan.
San Diego, California	30.25	768.3	30.32	770.1	43.0	6.1	51	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.70	754.4	30.42	772.7	— 5	—20 6	83	w.	20	8.9	.....	0	0	.....	.....	trap.	trap.	clear	M. H. Perry.
Sandy Hook, New Jersey	30.29	769.4	30.32	770.1	18.0	— 7.8	83	w	29	13.0	.....	5 k	0	w.	.....	trap.	trap.	fair	B. A. Blundon.
San Francisco, California	30.40	772.1	30.47	773.9	39	3.9	65	nw.	11	4.9	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.37	593.6	30.42	772 7	10	—12.2	55	n.	15	6.7	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.37	771.4	30.47	773.9	38	3.3	53	nw.	15	6.7	.....	6 ck	0	sw.	.....	0.11	2.8	fair	H. W. Ford.
Shaw, Fort, Montana	26.44	671.6	30.30	769.6	2	—16.7	75	n.	1	0.4	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	A. L. Mathews.
Shreveport, Louisiana	30.39	771.9	30.64	778.2	17	— 8.3	83	ne.	4	1.8	.....	0	2 s	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	29.27	743 4	30.60	777.2	12.5	—10.8	68	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.44	620.8	30.30	769.6	17.5	— 8.1	85	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Sitka, Alaska	29.46	748.3	29.53	750.0	42.7	5.9	71	e.	28	12.5	.....	.....	10 n	.....	e.	0.29	7.4	light rain	F. W. Fickett.
Smith, Fort, Arkansas	30.18	766.0	30.68	779.3	12.0	—11.1	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.39	771.9	30.43	772.9	37	2.8	61	n.	9	4.0	.....	.....	10 s	.....	w.	0.17	4.3	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.42	721 9	30.56	776.2	12.2	—11.0	82	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	H. Clifford.
Springfield, Illinois	29.92	760.0	30.65	778.5	— 3	—19.4	71	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Missouri	29.11	739.4	30.63	778.0	8	—13.3	82	se.	4	1.8	.....	3 cs	0	.....	.....	0	0	clear	J. H. Bryce.
Starkville, Miss.	30.12	765.0	30.62	777.7	20	— 6.7	84	nw.	0	2.7	.....	.....	10 s	.....	nw.	0	0	cloudy	C. Dill.
Stevenson, Fort, Dakota	28.40	721.3	30.46	773.7	—24	—31.1	100	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.27	692.6	30.41	772.4	21	— 6.1	61	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass.	30.11	764.8	30.17	766.3	15.0	— 9.4	74	w	27	12.1	.....	5 c	0	w.	.....	0	0	fair	G. Liebmann
Thomas, Camp, Arizona	27.60	701.0	30.43	772.9	20	— 6.7	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.68	753.9	30.42	772.7	— 8	—22.2	58	sw.	16	7.2	.....	0	0	.....	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.86	707.6	30.30	771.1	26	— 3.3	76	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.26	768.6	30.65	778.5	10	— 8.9	83	se.	4	1.8	.....	.....	10 s	.....	.....	trap.	trap.	cloudy	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	20.6	— 6.3	48	n.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	30.34	770.6	30.61	777.5	24.0	— 4.4	73	n	6	2.7	.....	3 ck	6 s	w.	w.	0	0	cloudy	James Keneally.
Visalia, California	30.11	764.8	30.50	774.7	25.2	— 3.8	58	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	O. D. Stewart
Washakie, Fort, Wyoming	24.52	622.8	30.32	770.1	7.5	—13.6	68	w	7	3.1	.....	7 k	0	.....	.....	0	0	fair	T. M. Ambler.
Washington, D. C.	30.28	769.1	30.40	772.1	21.5	— 5.8	78	nw.	8	3.6	.....	.....	9 s	.....	nw.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.26	667.0	30.40	772.1	— 9	—22.8	100	nw.	0	2.7	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.67	753.6	30.30	769.6	11.8	—11.2	50	w.	9	4.0	.....	0	2 ks	.....	w.	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.38	771.6	30.44	773.2	39	3.9	65	n.	9	4.0	.....	1 c	8 s	.....	.....	trap.	trap.	cloudy	Samuel A. Haney.
Winnemucca, Nevada	26.03	661.2	30.57	776.5	— 3	—19.4	83	ne.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	29.11	739.4	30.53	775.4	—15	—25.0	47	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	30.25	768.3	30.40	772.1	37.4	2.4	34	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6	.....	.....	52.0	11.1	71	s.	2	0.9	.....	4 ck	0	w.	.....	0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.13	765.3	30.11	765 5	68	20.0	87	n.	1	0.4	.....	0	0	.....	.....	0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.06	763 5	30.06	763.5	76	24.4	91	e.	.....	.....	3	.....	10 n	c.	.....	0.090	2.3	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.42	747.3	29.98	761 5	74	23.3	89	s.	.....	.....	1	.....	10 ks	.....	nw.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75	23.9	92	ne.	.....	.....	2	0	0	.....	.....	0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	28.98	736.1	29.03	737.3	38	3.3	89	s.	.....	.....	2	.....	10 n	.....	.....	2.30	59.9	heavy rain	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Wallos.
York Factory, B. A.	29.44	747.8	29.51	749 5	—28.0	—33.3	.....	nw.	41	18.3	.....	.....	10 n	.....	nw.	0.35	8 9	snowing	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Amethyst, Port Stanley, Falkland Island†	28 93	734.8	51	10.6	78	wsw.	.....	.....	6	.....	2	sw.	.....	.....	.....	1	wsw.	squally.
H. M. S. Audacious, Hong-Kong, China	30.05	763.3	62	16.7	88	ene.	.....	.....	1	.....	5	e.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Boadicea, St Helena Island, Africa	30.05	763.3	.....	.....	.....	nne.	.....	.....	2-3	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Champion, Singapore, Malay peninsula	29.81	757.2	79	26.1	95	ne.	.....	.....	2	.....	3	ne.	.....	.....	.....	1	ne	d. clouds.
H. M. S. Cleopatra, N. 31° 15′ E. 121° 29′	30.11	764.8	52	11.1	86	se.	.....	.....	1-2	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Comus, N. 0° 50′, W. 85° 20′	29.99	761.7	76	24.4	90	s.	.....	.....	2	.....	6	.....	.....	.....	.....	2	s.	d. clouds.
H. M. S. Constance, S. 13° 44′ W. 33° 58′	30.02	762.5	80	26.7	.....	e.	.....	.....	3	.....	3	.....	.....	.....	.....	2	e.	d. clouds.
H. M. S. Curacoa, Yokohama, Japan	30.03	762.7	44.5	6.9	60	n.	.....	.....	1	.....	2	n.	.....	.....	.....	.....	.....	showery.
H. M. S. Crocodile N. 18° 18′. E. 39° 38′	29.88	758.9	79	26.1	82	calm	.....	.....	0	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.22	767.6	67	19.4	94	ssw.	.....	.....	1-2	.....	3	ssw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Dryad, N. 16° 00′, E. 96° 00′	29.90	759 4	79	26.1	.....	s.	.....	.....	1-2	.....	7	nw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Eclipse, N. 18° 54′, E. 72° 49′	29.78	756.4	85	29.4	.....	wnw.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon, India.	29.84	757.9	79	26.1	90	ne.	.....	.....	2	.....	4	ne.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Espeigle, S. 36° 45′ E. 151° 28′	30.00	762.0	66	18.9	79	sse.	.....	.....	4-6	.....	8	.....	.....	.....	.....	5	s.	squally.
H. M. S. Fawn, S. 17° 07′, W. 4° 08′	30.02	762.5	73.5	23.1	85	ese.	.....	.....	2	.....	2	.....	.....	.....	.....	1	ese.	blue sky.
H. M. S. Flying Fish, Nagasaki, Japan	30.32	770.1	49.5	9.7	85	calm	.....	.....	0	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Fox Hound, Sarawak, Borneo	29.88	758.9	76.5	24.7	.....	calm	.....	.....	0	.....	9	s.	.....	.....	.....	.....	.....	d clouds.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.99	761.7	60	15.6	76	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	misty.
H. M. S. Heroine, S. 24° 22′ W. 38° 50′	30.04	763.0	80	26.7	82	nne.	.....	.....	2	.....	3	ne.	.....	.....	.....	2	ne.	d. clouds.
H. M. S. Himalaya, N. 26° 30′, E. 34° 50′	29.95	760.7	72	22.2	63	wnw.	.....	.....	1	.....	3	.....	.....	.....	.....	1	wnw.	d. clouds.
H. M. S. Iron Duke, N. 22° 40′, E. 37° 15′	30.07	763.8	73	22.8	95	nnw.	.....	.....	3-4	.....	6	n.	.....	.....	.....	3	nnw	d. clouds.
H. M. S. Kingfisher, Callao Bay, Peru	30.01	762.2	69	20.6	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	misty.
H. M. S. Lark, S. 34° 50′, E. 174° 49′	29.95	760.7	70.3	21.3	67	ne.	.....	.....	2	.....	5	.....	.....	.....	.....	1	w.	d. clouds.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.30	769.6	42.1	5.6	84	calm	.....	.....	0	.....	8	w.	.....	.....	.....	.....	.....	misty.
H. M. S. Monarch, Port Said, Egypt	29.91	759.7	56	13.3	93	ssw.	.....	.....	3-5	.....	8	.....	.....	.....	.....	.....	.....	raining.
H. M. S. Mutine, N. 13° 25′, W. 136° 40′	29.97	761.2	71.5	21.9	.....	ne.	.....	.....	5	.....	3	.....	.....	.....	.....	5	ne.	d. clouds.
H. M. S. Rocket, Valdivia, Chili	30.07	763.8	63	17.2	78	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Serapis, N. 18° 34′, E. 71° 35′	29.90	759.4	79	26.1	95	n.	.....	.....	1	.....	7	.....	.....	.....	.....	1	w.	d. clouds.
H. M. S. Superb N. 36° 35′, E. 28° 13′	29.96	761.0	58	14.4	53	w.	.....	.....	3	.....	.....	.....	.....	.....	.....	3	wsw.	d. clouds.
H. M. S. Swiftsure, Bay of Payta, Peru	30.05	763.3	68	20.0	94	e.	.....	.....	1	6	.....	.....	.....	.....	.....	1	s.	d. clouds.
H. M. S. Sylvia, Point Angosto, Patagonia	28 99	736.3	43	6.1	83	var.	.....	.....	2-4	10	.....	.....	.....	.....	.....	.....	.....	drizzling.
H. M. S. Tourmaline, Bombay, India	29.89	759.2	.....	.....	.....	nw.	.....	.....	2	0	.....	.....	.....	.....	.....	.....	.....	blue sky.
H. M. Tyne, N. 30° 32′, W. 11° 16′	30.26	768.6	62	16.7	88	se.	.....	.....	2	5	.....	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Woodlark, Bushire, Persia	29.90	759.4	64.5	18.1	89	se.	.....	.....	3-5	10	s.	.....	.....	.....	.....	3	se.	thnd'r storm.
PORTUGUESE NAVAL.																		
Tamega, Macao, China	30.10	764.5	62.6	17.0	80	ese.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla*	30.45	773.4	34	1.1	79	n.	9	4.0	.....	.....	8	.....	n.	o	o	.....	.....	fair.
Navy Yard, Portsmouth, N. H*	30.07	763.8	13	—10.6	?	wnw.	24	10.7	.....	.....	10	.....	wnw.	o	o	.....	.....	cloudy.
Naval Hospital, Yokohama, Japan*	30.02	762.5	39.5	4.2	67	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	hazy.
Adams, Sitka, Alaska†	29.52	749.8	42	5.6	75	e.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
Alaska, Mare Island, Cal	30.42	772.7	37	2 8	80	calm	.....	.....	0	.....	0	.....	.....	o	o	.....	.....	clear.
Alliance, N. 14° 03′, W. 80° 48′	30.00	762.0	79	26.1	90	ene.	.....	.....	4	.....	5	.....	.....	light	light	mod.	.....	fair.
Brooklyn, Keel Point, Patagonia*	29.06	738.1	54	12.2	68	wsw.	22	9.8	.....	.....	10	.....	wsw.	o	o	sm'h	.....	cloudy.
Colorado, New York, N. Y.	30.38	771.6	17	— 8.3	100	nw.	6	2.7	.....	.....	2	.....	nw.	o	o	.....	.....	clear
Enterprise, N. 27° 08′, W. 36° 16′*	29.93	760.2	61	16.1	77	nnw.	.....	.....	6	.....	8	.....	wnw.	.....	.....	r'gh	.....	cloudy.
Essex, Callao, Peru	29.96	761.0	68	20.0	94	se.	.....	.....	1	.....	5	.....	se.	.....	.....	.....	.....	fair.
Franklin, Norfolk, Va.	30.38	771.6	35	1.7	45	calm	o	o	.....	.....	10	.....	.....	o.02	o.5	.....	.....	cloudy.
Galena, Montevideo, Uruguay*	29.94	760.5	71	21.7	84	nnw.	.....	.....	3	.....	2	.....	.....	.....	.....	sm'h	.....	clear.
Hartford, Callao, Peru*	29.95	760.7	69	20.6	95	sse.	.....	.....	0-1	.....	5	.....	sse.	.....	.....	sm'h	s.	hazy.
Independence, Mare Island, Cal	30.48	774.2	32	0.0	90	ne.	.....	.....	1	.....	0	.....	.....	o	o	.....	.....	hazy.
Iroquois, Callao, Peru	30.00	762.0	67	19.4	?	se.	.....	.....	1	.....	8	.....	.....	.....	.....	.....	.....	cloudy.
Jamestown, N. 38° 44′, W. 65° 44′	30.06	763.5	47	8.3	85	n.	.....	.....	5	.....	10	.....	n.	.....	.....	mod.	nw.	cloudy.
Juniata, Gibraltar, Mediterranean*	30.37	771.4	57	13.9	87	nne.	.....	.....	2	.....	1	.....	calm	o	o	...	.....	clear.
Kearsarge, N. 10° 48′, W. 66° 30′	30.02	762.5	77	25.0	95	ese.	.....	.....	3	.....	8	.....	e.	.....	.....	mod.	e.	fair.
Lackawanna, N. 19° 55′, W. 152° 10′*	30.08	764.0	73	22.8	81	ene.	.....	.....	3	.....	2	.....	e.	.....	.....	long	e.	fair.
Lancaster, Villefranche, France	30.11	764.8	60	15.6	59	s.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
Michigan, Erie, Pennsylvania	30.34	770.6	— 2	—18.9	100	nw.	.....	.....	7	.....	8	.....	se.	.....	.....	.....	.....	cloudy.
Minnesota, New York, N. Y.	30.30	769.6	17	— 8.3	83	nw.	6	2.7	.....	.....	2	.....	.....	.....	.....	.....	.....	fair.
Monocacy, Nagasaki, Japan	30.32	770.1	51	10.6	93	n.	.....	.....	1	.....	10	.....	calm	.....	.....	.....	.....	cloudy.
New Hampshire, Newport, R. I.	30.17	766.3	20	— 6.7	85	nnw.	.....	.....	5	.....	2	.....	.....	.....	.....	sm'h	.....	fair.
Nipsic, Lisbon, Portugal.	30.44	773.2	58	14.4	69	e.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	clear.
Onward. Callao, Peru*†	30.10	764.5	67	19.4	94	sse.	.....	.....	2	.....	8	.....	n.	.....	.....	.....	.....	cloudy.
Palos, Tientsin, China*	30.29	769.4	23	— 5.0	100	e.	.....	.....	4	.....	10	.....	calm	.....	.....	.....	.....	cloudy.
Pensacola, Payta, Peru*	29.94	760.5	70	21.1	85	e.	3	1.3	.....	.....	2	.....	.....	o	o	sm'h	.....	clear.
Portsmouth, Boston, Mass.	30.14	765.5	15	— 9.4	?	w.	.....	.....	5	.....	2	.....	w.	.....	.....	.....	.....	fair.
Powhatan, Boston, Mass	30.14	765.5	15	— 9.4	83	w.	.....	.....	3	.....	5	.....	.....	.....	.....	.....	.....	fair.
Quinnebtug, Genoa, Italy.	30.18	766.6	54	12.2	60	s.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
Ranger, N. 27° 03′, W 114° 05′*	30.18	766.6	56	13.3	57	n.	.....	.....	4	.....	0	.....	.....	o	o	sm'h	.....	clear.
Richmond, Mouth Canton River, China*	29.96	761.0	66	18.9	78	se.	.....	.....	2	.....	8	.....	se.	o	o	.....	.....	fair.
Saratoga, New York, N. Y.	30.28	769.1	18	— 7.8	84	nw.	.....	.....	3	.....	8	.....	nw.	o	o	.....	.....	cloudy.
St. Louis, League Island, Pa.	30.33	770.4	19	— 7.2	84	wnw.	.....	.....	3	.....	8	.....	wnw.	o	o	.....	.....	cloudy.
Tennessee, St. Thomas, W. I*	30.14	765.5	79	26.1	78	ene.	8	3.6	.....	.....	5	.....	ene.	inap.	inap.	.....	.....	fair.
Vandalia, Samana Bay, San Domingo, W. I*	30.17	766.3	77	25.0	86	e.	.....	.....	1	.....	5	.....	e.	.....	.....	.....	.....	fair.
Wabash, Boston, Mass.	30.15	765.8	15	— 9.4	28	w.	5	2.2	.....	.....	2	.....	n.	o	o	.....	.....	fair.
Wachusetts, N. 34° 58′ W. 127° 33′	30.50	774.7	46	7.8	92	w.	.....	.....	2	.....	5	.....	w.	.....	.....	sm'h	.....	fair.
Wyandotte, Washington, D. C.	30.41	772.4	30	— 1.1	?	nw.	.....	.....	3	.....	5	.....	sw.	o	o	.....	.....	fair.
Yantic, Great Corn Island, Nicaragua	30.05	763.3	77	25.0	86	ene.	.....	.....	3	.....	2	.....	.....	.....	.....	.....	.....	clear.
MERCHANT MARINE.																		
S. S. Grecian, N. 49° 46′ W. 1° 00′*	30.50	774.7	40	4.4	91	e.	.....	.....	2	.....	10	.....	.....	o	o	sm'h	.....	overcast.
S. S. Nova Scotian, off Maidens Light House, Ireland	30.34	770.6	45	7.2	.....	sse.	.....	.....	3	.....	10	.....	s.	.....	.....	.....	.....	hazy.
S. S. Scandinavian, N. 47° 07′, W. 45° 20.	29.40	746.7	38	3.3	.....	s.	.....	.....	8	.....	10	.....	wsw.	sleet	sleet	high	wsw.	rain & snow
S. S. British Crown, N. 42° 25′, W. 53° 52′†	29.62	752.3	51	10.6	.....	wsw.	.....	.....	6	.....	9	.....	wsw.	8 h'r	8 h'r	r'gh	sw.	overcast.
S. S. British Prince, N. 50° 08, W. 24° 02′†	29.82	757.4	46	7.8	.....	nne.	.....	.....	3	.....	3	.....	ne.	1 h'r	1 h'r	r'gh	sw.	clear.
S. S. Indiana, N. 45° 26′, W. 43° 57′†	29.68	753.9	43	6.1	92	sw.	.....	.....	8	.....	10	.....	sw.	rain	rain	r'gh	sw.	misty.
S. S. Lord Clive, Philadelphia, Pa.	30.34	770.6	.....	.....	.....	nw.	.....	.....	3	.....	0	.....	.....	o	o	.....	.....	fine.
S. S. Lord Gough, N. 51° 02′ W. 14° 34′	29.91	759 7	52	11.1	.....	se.	.....	.....	4	.....	8	.....	se.	2 h'r	2 h'r	r'gh	se.	cloudy.
S. S. Ohio, N. 42° 43′, W. 60° 2′	.....	.....	37	2.8	90	wnw.	.....	.....	6	.....	9	.....	se.	.....	.....	mod	w.	cloudy.
S. S. Pennsylvania, Delaware river†	30.25	768.3	20	— 6.7	85	nw.	.....	.....	3	.....	10	.....	w.	o	o	.....	.....	cloudy.
S. S. Stella, N. 40° 47′ W. 57° 06′	29.52	749.8	54	12.2	.....	sse.	.....	.....	7	.....	5	.....	sw.	6 h'r	6 h'r	5	w.	squally.
S. S. Anchoria, N. 51° 20′, W. 34° 37′†	29.66	753.4	.....	.....	.....	wsw.	.....	.....	4	.....	5?	.....	wsw.	sh'rs	sh'rs	hv'y	nw.	clear. ?
S. S. Bolivia, N. 54° 56′ W. 19° 45′	29.81	757.2	47	8.3	77	sse.	.....	.....	3	.....	10	.....	w.	driz'l	driz'l	h'vy	w.	raining.
S. S. Dorian, N 36° 41′, W. 9° 06′*	30.22	767.6	56	13.3	.....	e.	.....	.....	2	.....	1	.....	e.	o	o	mod.	wnw.	clear.
S. S. Ailsa, N. 17° 55′, W. 76° 49′†	30.23	767.8	78	25.6	91	e.	.....	.....	3	.....	5	.....	se.	o	o	mod.	e.	fair?
S. S. Antillas, Kingston, Jamaica, W. I†	30.20	767.1	.....	.....	.....	ne.	.....	.....	1	.....	1	.....	no.	.....	.....	.....	.....	fine.
S. S. Ambrose, Manaos, Brazil†	30.05	763.3	80	26.7	.....	calm	.....	.....	0	.....	10	.....	.....	3 h'r	3 h'r	.....	.....	.....
S. S. Landaff City, N. 51° 15′, W. 10° 17′*†	30.30	769.6	.....	.....	.....	s.	.....	.....	6	.....	10	.....	s.	o	o	light	w.	cloudy.
S. S. Auckland, S. 40° 25′, W. 33° 49′	29.97	761.2	63	17.2	83	wnw.	.....	.....	5	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Caldew, S. 29° 30′, E. 43° 36′	29.90	759.4	76	24.4	95	sw.	.....	.....	6	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. City of Agra, S. 30° 25′, W. 28° 36′	30.16	766.1	79.2	26.2	86	nw.	.....	.....	3	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
St. Kilda, N. 42° 50′ W. 28° 40′	30.04	763.0	51.0	10.6	79	nne.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	.....	showery.
S. S. Scotia, N. 19° 31′ E. 39° 07′	29.89	759.2	83.1	28.4	79	nne.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Mexico, N. 29° 21′ W. 115° 39′†	30.28	769.1	60	15.6	76	wnw	.....	.....	2	.....	0	.....	.....	.....	.....	mod.	wnw.	
S. S. Bothnia, N. 44° 08′, W. 47° 34′	29.60	751.8	45	7.2	92	w.	.....	.....	5	.....	7	.....	w.	rain	rain	r'gh	w.	squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																		
S. S. Marathon, N. 42° 35′ W. 60° 50′	29.83	757.7	36	2.2	.....	w.	.....	.....	5	.....	5	.....	w	.....	.....	high	sw.	fine.
S. S. Parthia, New York, N. Y	.....	.....	20	—6.7	85	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
S. S. Pavonia, N. 45° 27′, W. 42° 25′	29.74	755.4	48	8.9	92	ssw.	.....	.....	7	.....	10	.....	w.	0	0	long	n.	cloudy.
S. S. Rhiwladda, N. 48° —′ W. 35° 22′	.....	.....	39	3.9	.....	sw.	.....	.....	8	.....	8	.....	wsw.	snow	snow	r'gh	w.	stormy.
S. S. France, N. 45° 13′, W. 51° 04′	.....	.....	41.0	5.0	.....	wsw.	.....	.....	6	.....	.....	.....	w.	.....	.....	h'vy	w.	snowing.
S. S. Ville de Marseilles, N. 18° 55′, W. 62° 40′*†	30.15	765.8	83	28.3	.....	ne.	.....	.....	6	.....	0	.....	.....	0	0	sm'h	ne.	clear.
S. S. Abyssinia, N. 46° 20′, W. 42° 50	29.70	754.4	44	6.7	92	sw.	.....	.....	8	.....	10	.....	sw.	3 h'r	3 h'r	r'gh	sw.	raining.
S. S. Bohemia, Hamburg, Germany *†	30.48	774.2	.....	.....	.....	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....	fair.
S. S. Frisia, N. 45° 12′ W. 47° 50′	29.55	750.6	.....	.....	.....	nw;s.	.....	.....	8	.....	10	.....	nw.sw.	snow	snow	h'vy	w.	cloudy.
S. S. Rugia, New York, N. Y	30.27	769.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
S. S. Silesia, Hamburg, Germany	.....	.....	32.0	0.0	.....	wsw.	.....	.....	5	.....	4	.....	wsw.	2 h'r	2 h'r	.....	.....	cloudy.?
S. S. Vandalia, Hamburg, Germany	30.53	775.4	34.7	1.5	.....	nw.	.....	.....	4	.....	2	.....	nw.	.....	.....	.....	.....	fair.
S. S. Wieland, N. 45° 10′, W. 50° 47′	29.57	751.1	.....	.....	.....	wsw.	.....	.....	6	.....	10	.....	w	.....	.....	high	w.	misty
S. S. Archimedes, S. 21° 53′, W. 40° 33′	29.94	760.5	.....	.....	.....	ne.	.....	.....	3	.....	2	.....	ene.	0	0	mod.	ne.	clear.
S. S. Hevelius, N. 6° —′, W. 27° —′†	30.14	765.5	80	26.7	.....	ene.	.....	.....	4	.....	10	.....	se.	6 h'r	6 h'r	sm'h	.....	misty.
S. S. Ptolemy, S. 10° 10′, W. 32° 32′	29.98	761.5	81	27.2	78	ene.	.....	.....	4	.....	6 k	.....	e;s.	0	0	.....	se.	d. clouds.
S. S. Bulgarian, N. 51° 22′, W. 9° 29′ *	30.42	772.7	.....	.....	.....	se.	.....	.....	4	.....	10	.....	se.	0	0	mod.	s.	
S. S. Virginian, N. 48° 30′, W. 39° 00′ *	29.43	747.5	42	5.6	.....	ssw.	.....	.....	8	.....	10	.....	ssw.	3 h'r	3 h'r	h'vy	sw.	squally.
S. S. Colorado, off Galveston, Texas †	30.60	777.2	27	— 2.8	.....	n.	.....	.....	6	.....	10	.....	n.	0	0	.....	.....	fair.
S. S. Rio Grande, Matanzas, Cuba, W.I †	30.21	767.3	74	23.3	.....	ese.	.....	.....	2	.....	4?	.....	ese.	0	0	.....	.....	cloudy?
S. S. San Marcos, N. 36° 00′, W. 75° 10′	30.47	773.9	41	5.0	.....	n.	.....	.....	4	.....	7	.....	nne.	0	0	sm'h	.....	fine.
S. S. Archimede, Messina, Sicily †	30.09	764.3	61	16.1	66	nw.	.....	.....	4	.....	2	.....	nw.	0	0	.....	.....	clear.
S. S. Alleghany, Boston, Mass†	30.18	766.6	16	— 8.9	.....	nw.	.....	.....	7	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Brooklyn, Mersey river, Eng	.....	.....	48	8.9	.....	se.	.....	.....	1	.....	.....	.....	s.	0	0	short	s.	overcast.
S. S. Chalmette, N. 34° 03′, W. 76° 50′ †	30.37	771.4	42	5.6	.....	nnw.	.....	.....	6	.....	6	.....	nnw.	7 h'r	7 h'r	mod.	nw.	cloudy.
S. S. Lone Star, N. 27° 12′, W. 86° 37′ †	30.24	768.1	60	15.6	.....	nne.	.....	.....	6	.....	10	.....	ne.	5 h'r	5 h'r	hv'y	ne.	rainy.
S. S. New York, N. 24° 50′ W. 80° 30′ †	30.27	768.8	77	25.0	.....	se.	.....	.....	3	.....	6	.....	se.	e	0	sm'h	.....	cloudy.
S. S. Denmark, N. 49° 30′, W. 8° 19′†	30.44	773.2	53	11.7	.....	sse.	.....	.....	4	.....	2	.....	s.	0	0	mod.	nw.	clear.
S. S. Egypt, N. 50° 42′, W. 29° 07′ *†	29.85	758.2	.....	.....	.....	wsw.	.....	.....	4	.....	5	.....	wsw.	0	0	long	w.	fair.
S. S. Erin, Liverpool, Eng	.....	.....	42	5.6	.....	s.	.....	.....	6	.....	10	.....	s.	6 h'r	6 h'r	.....	.....	
S. S. Helvetia, Liverpool, Eng	30.44	773.2	42	5.6	.....	sw.	.....	.....	1	.....	10	.....	sw.	0	0	.....	.....	overcast.
S. S. Holland, N. 46° 05′, W. 42° 30′	29.57	751.1	38	3.3	.....	ssw.	.....	.....	8	.....	10	.....	wnw.	hail	hail	h'vy	sw.	overcast.
S. S. The Queen, N. 49° 02′ W. 18° 33′ *†	29.83	757.7	49	9.4	.....	s.	.....	.....	5	.....	10	.....	ssw.	12 h'r	12 h'r	cross	var.	clearing.
S. S. Santiago, N. 34° 59′. W. 74° 00′	30.24	768.1	56	13.3	100	n.	.....	.....	4	.....	10	.....	nnw.	6 h'r	6 h'r	r'gh	cross	stormy.
S. S. City of Merida, N. 21° 20′, W. 89° 40′	.....	.....	77.0	25.0	.....	ese.	.....	.....	2	.....	10	.....	e.	6 h'r	6 h'r	h'vy	n.	cloudy.
S. S. City of Washington, N. 30° 45′ W. 79° 35′ †	30.38	771.6	65	18.3	.....	n.	.....	.....	7	.....	10	.....	n.	0	0	r'gh	ne.	cloudy.
S. S. America, N. 44° 20′, W. 46° 30′ *	29.67	753.6	46.0	7.8	100	sw.	.....	.....	6	.....	10	.....	ssw; w.	rain	rain	r'gh	var.	rainy.
S. S. Donau, N. 49° 28′ W. 14° 28′	30.13	765.3	.....	.....	.....	sse.	.....	.....	6	.....	10	.....	s.	4 h'r	4 h'r	rg'h	s.	cloudy.
S. S. Gen. Werder, N. 51° 27′, E. 2° 06′	30.57	776.5	.....	.....	.....	se.	.....	.....	2	.....	10	.....	.....	0	0	sm'h	se.	cloudy.
S. S. Hohenstaufen, S. 4° 43′, W. 32° 23′	29.93	760.2	80.6	27.0	.....	e.	.....	.....	4	.....	2	.....	e.	1 h'r	1 h'r	mod.	e.	fair.
S. S. Hohenzollern, N. 33° 26′, W. 17° 19′	30.19	766.8	.....	.....	.....	sse.	.....	.....	6	.....	0	.....	.....	0	0	cross	sse.	clear.
S. S. Main, N. 41° 29′, W 64° 02′	29.95	760.7	38	3.3	.....	w.	.....	.....	7	.....	10	.....	w.	rain	rain	cross	w.	cloudy
S. S. Neckar, N. 40° 47′, W. 64° 11′	29.91	759.7	37.0	2.8	71	wnw.	.....	.....	6	.....	9	.....	wnw.	0	0	high	wnw.	overcast.
S. S. Salier, N. 49° 14′ W. 39° 40′	.....	.....	42	5.6	.....	wsw.	.....	.....	6–7	.....	10	.....	wsw.	2 h'r	2 h'r	h'vy	sw.	raining.
S. S. Strassburg, N. 32° 24′ W. 16° 40′	30.24	768.1	74.0	23.3	63	e to se.	.....	.....	2–5	.....	8	.....	se.	0	0	mod.	se.	fair.
S. S. Arabic, N 37° 14′, W. 143° 05′ †*	29.83	757.7	59	15.0	88	se.	.....	.....	3	.....	8	.....	s.	0	0	mod.	w.	cloudy.
S. S. Belgic, Wasima Island, Japan *†	29.98	761.5	49	9.4	64	wnw.	.....	.....	5	.....	3	.....	nw.	0	0	r'gh	wnw.	fair.
S. S. Coptic, N. 42° 34′ W. 160° 46′	29.04	737.6	45.5	7.5	76	wsw.	.....	.....	5	.....	3	.....	w.	4 h'r	4 h'r	mod.	w.	fair.
S. S. Gaelic, N. 23° 26 , E. 116° 41′	30.11	764.8	58	14.4	94	ne.	.....	.....	4	.....	6	.....	s.	0	0	.....	se.	fair.
S. S. Oceanic, San Francisco, Cal†	30.49	774.4	45	7.2	84	n.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. City of Augusta, N. 36° 14′, W. 75° 13′ †	30.38	771.6	.....	.....	.....	ne.	.....	.....	7	.....	7	.....	.....	0	0	.....	.....	cloudy.
S. S. Willamette, Seattle, Wash. Ter†	30.52	775.2	41	5.0	91	s.	.....	.....	1	.....	8	.....	s.	0.05	1.3	.....	.....	rainy.
S. S. Oregon, N. 45° 26′ W. 124° 07′†	30.49	774.4	45	7.2	88	ese.	.....	.....	1	.....	5?	.....	ese.	.....	.....	light	w.	cloudy?
S. S. Ancon, San Francisco, Cal †	30.36	771.6	40	4.4	82	n.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. City of Chester, San Francisco, Cal *†	30.44	773.2	42	5.6	83	n.	.....	.....	4	.....	fg.	.....	.....	.....	.....	.....	.....	foggy.
S. S. Dakota, N. 41° 04′, W. 124° 39′ *†	30.40	772.1	45	7.2	84	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. G. W. Elder, N. 43° 41′, W. 124° 40′†	30.51	774.9	46	7.8	100	var.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Orizaba, N. 33° 46′, W. 118° 25′ *†	30.28	769.1	54	12.2	38	e.	.....	.....	5	.....	0	.....	.....	0	0	mod.	sw.	clear.
S. S. Queen of the Pacific, San Francisco, Cal †	30.32	770.1	.....	.....	.....	nw.	.....	.....	.....	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. State of California, San Francisco, Cal †	30.49	774.4	39	3.9	100	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Victoria, San Francisco, Cal *†	30.42	772.7	39	3.9	.....	nnw.	.....	.....	3	.....	2	.....	nnw.	.....	.....	.....	.....	fair
S. S. Australia, N. 25° 03′, W. 150° 32′ *†	29.90	759.4	70	21.1	85	ssw.	.....	.....	3	.....	6	.....	sw.	0	0	long	nw.	cloudy.
S. S. City of New York, N. 36° 06′, W. 126° 58′ †	30.47	773.9	52	11.1	73	nne.	.....	.....	2	.....	2	.....	nne.	1 h'r	1 h'r	sta'h	.....	clear.
S. S. City of Pekin, N. 29° 48′ W. 172° 34′†	29.91	759.7	65	18.3	89	sw.	.....	.....	4	.....	10	.....	sw.	.....	.....	large	nw.	cloudy.
S. S. City of Rio de Janeiro, N. 19° 46′, W. 105° 28′	.....	.....	70	21.1	100	ne.	.....	.....	1	.....	0	.....	.....	0	0	light	nw.	clear.
S. S. City of Sydney, Sydney, N. S. W †	29.99	761.7	73	22.8	67	se.	.....	.....	4	.....	8	.....	e.	.....	.....	.....	.....	drizzling
S. S. City of Tokei, N. 32° 56′, E. 135° 33′ †	30.30	769.6	55	12.8	74	nw.	.....	.....	4	.....	8?	.....	nnw.	0	0	small	nw.	clear?
S. S. Colon, Aspinwall, Panama †..	29.96	761.0	81	27.2	.....	nne.	.....	.....	2	.....	3	.....	ne.	0	0	sm'h	.....	fair.
S. S. Grenada, Panama, Panama †	29.93	760.2	75	23.9	90	nw.	.....	.....	1	.....	0	.....	.....	2 h'r	2 h'r	sm'h	nw.	clear.
S. S. San José, Manzanillo, Mexico *†	30.05	763.3	.....	.....	.....	nnw.	.....	.....	1	5 c	.....	nw.	.....	0	0	.....	.....	
S. S. Zealandia, Sydney, N. S. W *	29.93	760.2	76	24.4	91	se.	.....	.....	4	.....	5	.....	ne.	.....	.....	.....	.....	fine.
S. S. Muriel, N. 33° 15′, W. 65° 20′ *	30.27	768.8	77	25.0	.....	ene.	.....	.....	3	.....	0	.....	.....	0	0	mod.	ene.	clear.
S. S. Claudius, Colon, U. S. C. †	30.05	763.3	79.0	26.1	86	ne.	.....	.....	1	.....	5	.....	n.	0	0	long	n.	fair.
S. S. Valencia, N. 34° 39′, W. 71° 37′†	30.29	769.4	63	17.2	78	n.	.....	.....	7	.....	10	.....	n.	5 h'r	5 h'r	hv'y	cross	rain & fog.
S. S. Belgenland, N. 47° 03′, W. 42° 36′ †	29.64	752.8	42	5.6	65	ssw.	.....	.....	9	.....	10	.....	wsw.	light	light	h'vy	var.	threatening.
S. S. Nederland, N. 50° 50′, W. 20° 50′†	29.82	757.4	48	8.9	92	wsw.	.....	.....	4	.....	10	.....	se.	4 h'r	4 h'r	cross	s.	rainy.
S. S. Pennland, New York, N. Y	30.19	766.8	19	— 7.2	91	wnw.	.....	.....	5	.....	7	.....	.....	0	0	.....	.....	fine
S. S. Rhynland, N. 41° 50′, W. 65° 00′	29.98	761.5	37	2.8	81	nw.	.....	.....	7	.....	8	.....	nw.	.....	.....	high	nw.	dense fog.
S. S. Switzerland, N. 50° 03′, W. 9° 31′†	30.40	772.1	.....	.....	.....	s.	.....	.....	3	.....	10	.....	s.	0	0	long	wsw.	cloudy.
S. S. Waesland, Antwerp, Belgium	30.57	776.5	43	6.1	.....	nne.	.....	.....	2	.....	10	.....	ene.	0	0	.....	.....	hazy.
S. S. Leerdam, N. 49° 17′, W. 36° 09′ *	29.76	755.9	44	6.7	84	sw.	.....	.....	6	.....	10	.....	sw.	2 h'r	2 h'r	r'gh	nw.	showery.
S. S. Maas, Rotterdam, Holland	30.52	775.2	40.1	4.5	.....	w.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....	foggy.
S. S. W. A. Scholten, N. 45° 21′, W. 51° 43′	29.57	751.1	45.6	7.6	92	w.	.....	.....	7	.....	7	.....	wsw.	.....	.....	cross	sw.	stormy.
S. S. Zaandam, N. 49° 48′, W. 6° 00′	30.48	774.2	58	14.4	.....	sse.	.....	.....	2	3 c	0	w.	.....	0	0	.....	.....	
S. S. State of Florida, New York, N. Y	30.25	768.3	35	1.7	.....	w.	.....	.....	4	.....	8	.....	calm	0	0	.....	.....	overcast.
S. S. State of Georgia, N. 54° 47′, W. 18° 07 ††	29.79	756.7	49	9.4	.....	sse.	.....	.....	7	.....	10	.....	.....	5 h'r	5 h'r	mod.	wsw.	heavy rain.
S. S. Baltic, N. 48° 25, W. 41° 07′ *	29.37	746.0	47	8.3	85	sw.	.....	.....	7	.....	10	.....	sw.	shr's	shr's	r'gh	var.	raining.
S. S. Germanic, N. 40° 45′, W. 62° 45′†	29.99	761.7	48	8.9	.....	wnw.	.....	.....	5	.....	8	.....	wnw.	sh'rs	sh'rs	r'gh	wnw.	d. clouds.
S. S. Lepanto, N. 48° 46′, W. 11° 40′ *	30.36	771.1	48	8.9	.....	se.	.....	.....	6	.....	9	.....	se.	0	0	sli't	sw.	cloudy.
S. S. Marengo, N. 48° 22′, W. 36° 15′ *	29.50	749.3	.....	.....	.....	sw.	.....	.....	9	.....	6	.....	sw.	0	0	high	sw.	overcast.
S. S. Otranto, N. 50° 01′, W. 44° 09′†	29.14	740.1	40	4.4	.....	sse.	.....	.....	9	.....	8	.....	sse.	.....	.....	cross	sw.	cloudy.
S. S. Romano, New York, N. Y	.....	.....	21	—6.1	.....	w.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	fine.
S. S. Salerno, N. 40° 52′, W. 66° 17′	30.14	765.5	31	—0.6	.....	wnw.	.....	.....	6	.....	7	.....	w.	3 h'r	3 h'r	r'gh	w.	snowing.
S. S. Aries, N. 41° 00′, W. 71° 55′ *†	30.19	766.8	.....	.....	.....	wnw.	.....	.....	7	.....	5?	.....	wnw.	.....	.....	mod.	wnw.	cloudy?
S. S. Catherine Whiting, Delaware Bay †	30.35	770.9	.....	.....	.....	nw.	.....	.....	7	.....	8	.....	nw.	0	0	.....	.....	
S. S. Norman, N. 39° 50′, W. 75° 00′	.....	.....	.....	.....	.....	wnw.	.....	.....	4	.....	.....	.....	wnw.	0	0	sm'h	.....	clear.
S. S. Saxon, Philadelphia, Pa †	30.36	771.1	20	—6.7	.....	w.	.....	.....	2	.....	2	.....	.....	0	0	.....	.....	fine.
MISCELLANEOUS.																		
Bg. Abbie Clifford, Havana, Cuba, W. I†	30.17	766.3	68	20.0	.....	se.	.....	.....	1	.....	fg.	.....	.....	0	0	.....	.....	
Schr. Abbie H. Gheen, Spring Wood Mills, S. C†	30.38	771.6	42	5.6	.....	n.	.....	.....	4	.....	.....	.....	.....	0	0	.....	.....	cloudy.
Bg. Alcira, N. 29° 23′, W. 64° 40′	30.32	770.1	.....	.....	.....	s.	.....	.....	2	.....	4	.....	sse.	0	0	con.	var.	clear.
Bk. Alpha, Demerara, Brit. Guiana*†	29.95	760.7	80	26.7	.....	ene.	.....	.....	5	.....	5	.....	.....	2 h'r	2 h'r	.....	.....	fair.
Schr. Annie A. Holton, Tampico, Mexico†	30.33	770.4	62	16.7	.....	w.	.....	.....	2	.....	2?	.....	w.	0	0	.....	.....	cloudy.
Bk. Anna Thormann, S. 15° 59′ W. 10° 32′	30.07	763.8	76.5	24.7	75	e.	.....	.....	2	7 ck	.....	e.	ese.	sh'rs	sh'rs	mod.	se.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
S. S. Antonio Lopez, Barcelona, Spain	30.20	767.1	57	13.9	52	se.			1		1			0	0			clear.
Bg. Arthur, S. 24° 55′, W. 43° 23′*†	30.81	782.6				ne.			4		5		var.	0	0	mod.	var.	
Schr. Annie R. Lewis, N. 28° 25′. W. 62° 11′†	30.45	773.4	73	22.8		e.			1		0			0	0	long	ne.	clear.
Bk. B. F. Watson, Hong Kong, China†	29.99	761.7	65	18.3		ene.			4		0			0	0			misty.
Bg. Belle of the Bay, Galveston, Texas†	30.43	772.9				n.			5		7?		ne.	0	0			clear.?
Bkt. Bonny Doon, N. 27° 40′, W. 26° 08′						s.			8		10		sw.	driz.	driz.	high	sw.	cloudy.
Bk. Bremen, N. 27° 21′, W. 28° 04′*						w.			3		10		w.	10 h'r	10 h'r	cross	var.	heavy rain.
Bk. Champion, Philadelphia, Pa			47	8.3		ssw.			4		10		nw.	16 h'r	16 h'r			drizzling.
Bk. Commerce, N. 39° 07° W. 13° 57′†	30.15	765.8	60	15.6		sse.			3		2		sse.	0	0	long	nw.	fine.
S. S. D. J. Foley, Puerto Bello, U. S. C.*†	29.92	760.0	80	26.7	87	ene.			1		4		e.	2 h'r	2 h'r	sm'h		fair.
S. E. B. Sutton, N. 27° 30′, W. 36° 30′ †	30.05	763.3	61	16.1	82	n.			7		5		var.	rain	rain	r'gh	n.	squally.
Bk. E. D. Bigelow, N. 42° 29′, W. 26° 23′*†	29.90	759.4				ssw.			3		2		ssw	0	0	long	wnw.	fair.
Schr. Edith R. Seward, Bald Head Bar, N. C†	30.35	770.9	40	4.4		n.			2		6		n.	0	0			fair.
Bk. Edmund Phinney, S. 26° 28′. W. 38° 10′ †	30.11	764.8				nne.			4		2			0	0	mod.	nne.	clear.
S. E. J. Spicer, N. 50° 20′. W 18° 00′	29.80	756.9	53	11.7	100	s.			6		10		sw.	6 h'r	6 h'r	high	wsw.	overcast.
Bk. E. L. Pettingill, S. 51° 09′, W. 95° 21′*†	29.70	754.4	56	13.3		w.			7		8		wsw.	0	0	cross	w;sw	
Bk. Essex, Majambo, Madagascar*†	29.78	756.4	84	28.9		se.			3					sh'rs	sh'rs			squally.
Schr. F. E. McDonald, Jacksonville, Fla †	30.31	769.9	44	6.7		nnw.			5		10					long		cloudy.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†			26	−3.3		nw.			2		5		nw.					fair.
S. S. Foscolia, Hartlepool, Eng						wsw			1		0			0	0			hazy.
Bk. Freya, Matanzas, Cuba, W. I						ne.			1				ne.	0	0			clear.
S. George Stetson, S. 20° —′, W. 38° —′ *†	30.04	763.0	82	27.8	79	ne.			4		4		ene.	0	0	chop	e.	clear.
S. Grecian, N. 30° 25′, W. 41° 40′†	30.22	767.6	61	16.1	71	nne.			6		5		n.	0	0	long	n.	fair.
Bk. Grey Eagle, S. 17° 59′, W. 38° 00′*†	29.90	759.4				ne.			2		0			0	0			fine.
Bk. Gronsvaer, Auckland, N. Z	29.93	760.2	72.6	22.6		ne.			3		3		ne.	0	0			
Bk Hattie G. McFarland, Demerara, Brit. Guiana*†	30.08	764.0	78	25.6		e.			5		4		sw.	0	0			
Schr. Hattie Weston, N. 11° 24′, W. 61° 21′*†	30.21	767.3	78	25.6		ene.			4		5		ene.	0	0	long	ne.	fair.
Bk. Heinrich & Tonio, N. 33° 43′, W. 26° 42′			62	16.7		ne.			4		10		ne.	6 h'r	6 h'r	h'vy	nw.	rainy.
Bk. Horace Scudder, Smithville, N. C*†	30.05	763.3				nnw.												cloudy.
Schr. Isabel Alberto, New York, N. Y†	30.35	770.9				nw.			5		3		w.	0	0			clear.
Schr. James Slater, N. 24° 51′, W. 48° 54*†	30.25	768.3	72	22.2		ne.			4		5		ne.	0	0	mod.	ne.	
Bk. Johanne, N. 19° 38′, W. 34° 23′ *†	29.92	760.0	73	22.8		wsw.			6		8		var.	0	0	cross	var.	threatening.
Schr. John L. Thomas, Coche Id, S. A*†	30.08	764.0				ene.			3		1		e.	½ h'r	½ h'r			clear.
Bkt. Josephine, S. 31° 15′, W. 20° 34′†	30.14	765.5	80	26.7	66	ssw.			3		2		ssw.	0	0	long	ssw.	clear.
S. S. J. W. Wilson, Sabine Light, La*†	30.36	771.1	30	−1.1		n.			5		10		n.	0	0			overcast.
Light House Tender Laurel, Tampa Bay, Fla †	30.22	767.6	60	15.6		ne.			3		10		ne.	1 h'r	1 h'r			cloudy.
Bg. Lilian, N. 15° 50′, W. 61° 50′†	30.18	766.6	80	26.7		ene.			6		3		e.	4 h'r	4 h'r		ene.	squally
Bk. Louise Adelaide, N. 25° 00′, W. 84° 40′.*†	30.28	769.1				e.			1		4		e.	0	0	sm'h	sse.	fine.
S. S. Malabar, N. 35° 10′, W. 32° 06′ *†	29.98	761.5				nne.			4		5		ne.	0	0	h'vy	nw.	cloudy.
Bk. Mary A. Troop, N. 40° 00′, W. 35° 00′†.	30.08	764.0				nne.			4		2		ne.	4 h'r	4 h'r	long	nw.	clear.
Bk. Matilda C. Smith, N. 38° 44′, W. 53° 00′						sw.			8		7		wnw.	4 h'r	4 h'r	r'gh	sw.	clearing.
Schr. Minnie A. Bonsall, Mayport, Fla †	30.49	774.4	68	20.0		n.			5									light rain.
S. M. P. Grace, S. 26° 06′, W. 24° 06′ *.	30.10	764.5	83	28.3		ese.			2		2		e.	0	0	long	wsw.	
Bg. Myrtle, Barbadoes, W. I *†.	29.90	759.4				ene.			4		1		ene.	8 h'r	8 h'r			clear.
Bkt. Norena, Matanzas, Cuba, W. I*†	30.30	769.6				wsw.			1		0			0	0	sm'h		fine.
Bg. O. C. Clary, N. 34° 44′, W. 75° 30′			70	21.1	90	n.			4		10		n.				n.	cloudy.
Schr. Ocean Traveler, N. 28° 15′, W. 63° 40′ †	30.31	769.9				calm			0		1					mod.	n.	clear.
Bk. Ottawa, Alicante Harbor, Spain*	30.27	768.8	55	12.8		calm			0		0			0	0			clear.
S. Paramita, San Francisco, Cal†	30.48	774.2	38	3.3		nw.			2					0	0			clear.
S. S. Peconic, N. 43° 31′, W. 31° 30′*†	29.88	758.9	47	8.3		n.			1				nne.	0	0	long	nw.	cloudy.
S. S. Raleigh, Matanzas, Cuba, W. I*†	30.10	764.5	74	23.3		calm			0		0			0	0			fine.
Bk. Reindeer, Martinique, W. I *.	30.14	765.5				ene.								0	0			squally.
S. Rudolph, N. 44° 09′, W. 25° 49′			52.5	11.4		ssw.			3		10		sw.	4 h'r	4 h'r	high	wnw.	fair.
Bk. Saga, N. 37° 18′, W. 76° 11′			38	3.3		nnw.			1				wsw.					cloudy.
Schr. S. B. Hubbard, Mayport, Fla *†	30.50	774.7	58	14.4		n.			5		10			12 h'r	12 h'r			threatening.
Bk. Southern Belle, N. 22° 55′, W. 57° 10′*†	30.23	767.8	73	22.8		ne.			3-4		0			0	0	sm'h		clear.
S. Sovereinn of the Seas, S. 11° 36′, W. 122° 32′ *†	30.05	763.3	76	24.4	86	ese.			2		1		ese.	0	0	sm'h	se.	clear.
Bk. Sunbeam, Lisbon, Portugal*†	30.40	772.1	54	12.2	87	nne.			3		2		e.	0	0			clear.
S. S. Sunbeam, N. 48° 29′, W. 25° 42′	29.87	758.7	48	8.9	78	w.			1		4		w.	1 h'r	1 h'r	4	var.	d. couds.
S. Titan, N. 8° 23′, W. 30° 07′ *†	30.00	762.0	80	26.7	87	e.			4		8		e.	½h'r	½h'r	mod.	e.	fair.
Bk. Wandering Jew, Montevideo, Uruguay †	29.96	761.0	71	21.7		n.			6		2		n.	0	0			clear.
Bk. Winifred, N. 28° 57′, W. 42° 10′*†	30.25	768.3				var.							ne.	0	0	h'vy	ne.	fair
Schr. Wm. Wiler, N. 27° 09′, W. 65° 30′†	30.31	769.9				calm			0		2		sw.	0	0	mod	se.	fine.
Bk. Xenia, N. 10° 54′ W. 28° 34′*†	30.06	763.5	77	25.0		ene.			4		8		wsw.	3 h'r	3 h'r	sm'h	e.	cloudy.

International Chart I. January 22, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B.Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 23. 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours	.....	.....	30.39	771.9	60.4	15.8	81	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.27	768.9	56.5	13.6	69	w.	.....	.....	7	.....	4	.....	.....	0	0	cloudy	Thève.
La Calle	.....	.....	30.18	766.6	54.3	12.4	82	wnw.	.....	.....	8	.....	5	.....	.....	0.213	5.4	cloudy	Fonfréde.
Tunis	.....	.....	30.11	764.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.34	770.6	56.5	13.6	58	nw.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Pérès.
Tebessa	.....	.....	30.24	768.0	44.2	6.8	85	w.	.....	.....	4	.....	1	.....	.....	0	0	very fair	Dognon.
Geriville	.....	.....	.....	.....	47.5	8.6	35	wnw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Louchamp.
Laghouat	.....	.....	30.30	769.7	50.0	10.0	50	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.26	768.7	57.6	14.2	37	nnw.	.....	.....	6	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.82	757.4	29.91	759.7	60.7	15.9	69	se.	15	6.7	.....	.....	2	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.65	753 2	30.24	768.0	32.0	0.0	89	ne.	.....	.....	3	.....	10	.....	.....	0.008	0.2	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	29.49	749.0	30.32	770.0	21.2	— 6.0	85	nw.	9.4	4.2	.....	.....	10	.....	.....	0.071	1.8	.....	Dr. Wierzbiski.
Eperies	29.24	742.7	30.19	766.7	23.0	— 5.0	76	n.	.....	.....	5	.....	10	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.94	735.1	30.26	768.5	33.4	0.8	63	nw.	.....	.....	4	.....	4	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.51	724 2	30.02	762.5	28.6	— 1.9	82	nw.	.....	.....	3	.....	10	.....	.....	0.138	3.5	snowing	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.99	736.4	30.43	772.9	27.5	— 2.5	89	nw.	.....	.....	2	.....	10	.....	.....	0.268	6.8	gloomy	The Staff.
Lemberg	29.06	738 0	30.12	765.0	21.0	— 6.1	85	ne.	.....	.....	3	.....	10	.....	.....	0.181	4.6	.....	Dr. T. Stanecki.
Neu Schmecks	26.56	674.5	30.15	765.8	20.5	— 6.4	.....	calm	.....	.....	0	.....	7	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.07	763.8	30.19	766.8	39.4	4.1	35	ne.	.....	.....	2	.....	5	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.54	750.4	30.00	762.1	28.4	— 2.0	72	n.	.....	.....	3	.....	10	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.84	758.0	30.14	765.5	30.9	— 0.6	85	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	snowing	Karl Stancel.
Trieste	30.11	764.9	30.21	767.4	41.4	5.2	34	ne.	.....	.....	1	.....	1	.....	.....	0	0	.....	Royal Academy.
Vienna	29.59	751.6	30.36	771.1	27.9	— 2.3	53	n.	.....	.....	3	.....	9	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.29	769.4	30.39	771.9	38.6	3.7	76	s.	22	9.8	.....	.....	9	.....	.....	0.590	15.0	squally	W. Boswell
Armagh, Observatory	30.04	763.0	30.28	769.1	43.3	6.3	93	sse.	25	11.2	.....	.....	10	.....	.....	.....	.....	raining	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.46	773.7	37.0	2.8	80	ese.	32	14.3	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.95	760 7	30.51	774.9	34.1	1.2	84	sse.	6	2.7	.....	.....	8	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	30.13	765.3	30.52	775.2	37.5	3.1	78	se.	.....	.....	1	.....	7	.....	.....	0	0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	80.0	26.7	69	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H C.
Cardington	.....	.....	.....	.....	40.0	4.4	67	s.	.....	.....	0.6	.....	1	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E	30.55	776.0	30.68	779.3	39.1	3.9	71	s.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	30.23	767.8	30.47	773.9	41.4	5.2	83	se.	.....	.....	5	.....	10	.....	.....	.....	.....	overcast	The Staff.
Fort Napier, Natal	27.66	701.0	29.82	757.4	79.0	26.1	61	n.	.....	.....	1	.....	6	.....	.....	.....	.....	.....	Corpl. F. Milner, A. H. C.
Galway	30.11	764.8	30.15	765.8	47	8.3	92	s.	.....	.....	3	.....	9	.....	.....	0.52	13.2	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.28	769 1	30.34	770.6	59.0	15.0	95	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Sgt. J. Norris, A. H C.
Glasgow, Observatory	30.20	767.1	30.40	772.1	38.8	3.8	76	ese.	.....	.....	3	.....	10 k	.....	.....	.....	.....	overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.47	773.9	30.65	778.5	38.5	3.6	76	sse.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	30.23	767.8	30.55	776.0	38.6	3.7	75	se.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.66	777.2	30.04	778.2	37.9	3.3	76	se.	14	6.3	.....	.....	0	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	30.32	770.1	30.59	777.0	39.8	4.3	67	s	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.82	757 4	29.89	759.2	55.0	12.8	88	w.	.....	.....	2	.....	6	.....	.....	0.11	2.8	d. clouds	Corpl. Keene, A. H. C
Nassau, Bahamas	30.26	768.6	30.31	769 9	70.2	21.2	84	ne.	.....	.....	5	.....	9	.....	.....	blank	blank	overcast	C. S. Duncombe.
Oscott, St. Mary's College	30.00	762 0	30.56	776.2	36.0	2.2	85	s.	.....	.....	5	.....	8	.....	.....	.....	.....	threatening	Rev. Jas. W. Browne
Oxford, Radcliffe Obs'y	30.36	771.1	30.59	777.0	38.5	3.6	69	ese.	.....	.....	3	.....	3	.....	.....	.....	.....	squally	The Staff.
Plymouth	30.43	772.9	30.50	774.7	40.3	4.6	83	se.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	30.07	763.8	30.17	766.3	41.2	5.1	89	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L.L D.
Scutari Cemetery, Turkey	29.94	760.5	30.00	762.0	39.0	3.9	56	e	.....	.....	1	.....	8	.....	.....	blank	blank	d. clouds	W. H. Lyne.
Sheffield	30.27	768.8	30.57	776.5	37.6	3.1	80	ssw.	.....	.....	2	.....	9	.....	.....	0	0	overcast	W. F. Cooper.
Silloth Rectory	30.40	772.1	30.43	772.9	38.0	3.3	79	se.	.....	.....	1	.....	8	.....	.....	0.080	2.0	d. clouds	A. Collenette, F. M. S.
Stonyhurst, Observatory	.....	.....	30.51	774.9	.....	.....	.....	sse.	16	7.2	.....	.....	10	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Stratfield Turgiss	30.39	771.9	30.62	777.7	40.2	4.6	73	se.	.....	.....	2–3	.....	2	.....	.....	.....	.....	blue sky	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.42	772 7	30.48	774.2	46	7.8	85	e.	.....	.....	6	.....	10	.....	.....	.....	.....	gloomy	W. Newcombe.
Valencia, Observatory	30.14	765.5	30.17	766.3	51.0	10.6	94	se.	13	5.8	.....	.....	10	.....	.....	.....	.....	raining	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	— 2	—18.9	.....	calm	0	0	.....	0	0	.....	.....	0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.96	761 0	30.01	762.2	3	—16.1	97	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	H. J. Cundall, C. E
Chatham, N. B*	29.94	760 5	30.01	762.2	— 4	—20.0	100	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Cornwall	29.99	761.7	30.21	767.3	— 8.0	—22.2	100	w.	.....	.....	3	1 cs	0	.....	.....	0	0	blue sky	Jas. Smith, M. A.
Dalhousie	29.85	758.2	29.90	759.4	— 2.0	—18.9	.....	w.	.....	.....	1	0	0	.....	.....	0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	29.87	758 7	29.89	759.2	3	—16.1	91	sw.	38	17.0	.....	0	8 s	.....	w.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.53	750 0	30.56	776.2	—33	—36.1	100	nw.	7	3.1	.....	2 cs	0	w.	.....	0	0	clear	James Stewart.
Fredericton	30.04	763 0	30.12	765.0	—12.9	—24.9	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. Harrison, L. L. D.
Granton	29.18	741.2	30.47	773.9	—12.9	—24.9	90	sw.	9	4.0	.....	.....	10 n	.....	.....	0	0	overcast	Jas. Grant.
Halifax, N. S*	29.96	761.0	30.11	764.8	5	—15.0	96	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. Allison.
Hamilton	29.70	754.4	30.14	765.5	— 4.6	—20.3	63	sw.	.....	.....	2	0	0	.....	.....	0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.88	758.9	30.27	768.8	— 7	—21.7	67	w.	4	1.8	.....	0	2 s	.....	w.	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.95	760 7	30.19	766.8	— 7	—21.7	82	se.	20	8.9	.....	0	0	.....	.....	0	0	clear	C. H. McLeod, C. E.
Ottawa	29.91	759.7	30.20	767.1	—13.1	—25.1	96	sw.	.....	.....	2	0	0	.....	.....	0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.37	746.0	30.15	765.8	— 1	—18.3	68	n.	6	2.7	.....	.....	10 n	.....	n.	0.27	6.9	light snow	Rev. R. Mosley.
Peterboro	29.44	747.8	30.31	769.9	—10.3	—23.5	38	w.	.....	.....	2	0	0	.....	.....	0	0	clear	J. Dixon, B. A.
Port Dover, Ontario	29.58	751 3	30.37	771.4	— 4	—20.0	100	w.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	H. Morgan.
Port Stanley, Ontario	29.67	753.6	30.41	772.4	— 5	—20.6	68	w.	16	7.2	.....	0	0	.....	.....	0	0	clear	M. Payne.
Quebec, Quebec*	29.73	755.1	30.10	764.5	— 8	—22.2	58	sw.	.....	.....	1	2 c	2 c	sw.	w.	0	0	fair	Capt. Ashe, R. N
Rockliffe, Ontario*	29.61	752.1	30.11	764.8	—23	—30.6	100	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	W. H. McIntyre.
Saugeen, Ontario*	29.41	747.0	30.20	767.1	3	—16.1	.....	sw.	31	13.9	.....	.....	10 s	.....	.....	0.27	6.9	light snow	
St. Andrews, N. B	30.05	763 3	30.10	764.5	5	—15.0	95	wnw.	4	1.8	.....	0	0	.....	.....	0	0	clear	
St. John, N. B	29.93	760.2	30.11	764.8	4.0	—15.6	87	nw.	8	3.6	.....	0	3 k	.....	.....	0	0	clear	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.76	755.9	15.8	— 9.0	.....	nw.	.....	.....	7	.....	.....	.....	.....	0	0	.....	The Commandant.
Stratford	28.90	734.0	30.39	771.9	—14.0	—25.6	94	w.	10	4 5	.....	0	0	.....	.....	0	0	blue sky	C. J. Macgregor, M A.
Sydney, C. B*	29.89	759.2	29.96	761.0	6	—14.4	83	w.	9	4.0	.. ..	2 k	0	.....	.....	0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.93	760 2	30.37	771 4	— 7	—21.7	82	w.	8	3.6	.....	2 cs	2 ks	sw.	sw.	0	0	fair	Magnetic Observatory.
Windsor	29.96	761.0	30.06	763.5	4.0	—15.6	87	s.	4	1.8	.....	0	0	.....	.....	.....	.....	clear	Prof. W. H. Butler.
Woodstock	29.13	739.9	30.31	769.9	9.0	—12.8	94	s.	21	9.4	.....	0	5 8	.....	.....	0	0	d. clouds	Prof. Wolverton, M. A.
Yarmouth, N. S*	30.04	763 0	30.12	765.0	10	— 8.9	73	nw.	8	3.6	.....	.....	10 k	.....	nw.	0.01	0.3	light snow	Lt. F. E. Wimot, R. A.
Cape Colony.																			
Cape St. Francis Lt. House	30.00	762.0	30.03	762.7	75.0	23.9	70	e.	3.8	1.7	.....	0	8 k	.....	.....	0*	0	.....	John Duthie.
Springbok Fontein	27.85	707.4	.....	.....	93	33.9	38	ese.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.51	622.5	.....	.....	19.8	— 6.8	.....	calm	.....	.....	0	.....	1	.....	.....	0	0	.....	
Tchang-kia-tchouang	30.35	770.8	30.46	773.6	13.8	—10.1	98	calm	.....	.....	0	.....	0	.....	.....	0.079	2.0	snowing	Mission, S. J.
Zi-Ka-Wei, near Shanghai	30.07	763.7	30.09	764.3	45.9	7.7	95	w.	23.4	10.0	.....	.....	10 k	.....	.....	0.079	2.0	covered	M. Marc Dechevrens .S.J
Danish.																			
Copenhagen	30.71	779.9	30.75	781.1	26.8	— 2.9	74	ne.	7	3	.....	.....	9	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	30.75	781.1	30.77	781.6	27.5	— 2.5	87	e.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	28.07	713.0	28.11	714.1	32.7	0.4	57	ene.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	28.15	714.9	28.17	715.4	22.6	— 5.2	.....	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	
Jacobshavn, Greenland	28.56	725.3	28.60	726.5	23.7	— 4.6	.....	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.07	738.4	29.11	739.5	38.1	3.4	78	se.	.....	.....	6	.....	8	.....	.....	.....	.....	raining	A. O. Thorlacius.
Thorshavn	29.89	759.3	29.93	760 2	46.4	8.0	82	ssw.	20	9	.....	.....	7	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	30.70	779.7	30.79	782.0	26.1	— 3.3	94	e.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	28.87	733.2	28.91	734.4	—19.7	—28.7	.....	e.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	29.84	758.0	30.54	775.6	32.0	0	100	calm	.....	.....	0	.....	k	.....	.....	0	0	.....	M. Labroue, Director.
Alençon, Normal School	30.02	762.5	30.57	776.5	34.5	1.4	81	n.	.....	.....	1	.....	k	sw.	sw.	0	0	hazy	M. Nicot, Director.
Arras, Engineer School	30.37	771.3	30.65	778.4	32.5	0.3	.....	.....	.....	.....	2	.....	k	.....	.....	0	0	.....	M. Fénéon, Command't.
Avignon, Normal School	30.17	766 3	30.25	768 3	40.3	4.6	34	n.	.....	.....	6	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	30.00	762.0	30.59	777.0	33.4	0.8	85	e.	.....	.....	2	0	5 k	.....	e.	0	0	cloudy	M. Sallard, Director.
Beauvais, Normal School	30.38	771.7	30.67	779.0	33.1	0.6	74	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Frère Eugène Marie.
Besançon, Normal School	29.52	749 8	30.46	773.7	36.3	2.4	78	ne.	.....	.....	3	.....	k	.....	ne.	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	30.19	766.9	30.47	773.9	37.6	3.1	62	e.	.....	.....	1	.....	2	.....	.....	0.008	0.2	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.93	760 3	30.52	775.1	36.5	2.5	75	ne.	.....	.....	2	.....	1	.....	ne.	0	0	clear	M. Malet, Director.
Brest, Naval Observatory	30.26	768.5	30.50	774 7	34.5	1.4	88	se.	.....	.....	2	.....	10	.....	se.	0	0	hazy	M. de Kermaingé, Dir.
Caen, Normal School	30.50	774 6	30.58	776.6	35.6	2	82	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.26	768 6	30.60	777.2	31.5	— 0.3	.....	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Jadot, Director.
Charleville, Normal School	30.11	764.8	30.63	778.0	34.5	1.4	.....	ese.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.05	737.9	30.49	774.5	33.1	0.6	86	n.	.....	.....	1	.....	2	.....	ne.	0	0	¼ covered	M. Allnard, Director.
Cluny, Normal School	29.57	751.1	30.45	773.5	30.7	— 0.7	65	ne	.....	.....	8	.....	.....	.....	.....	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.71	754.5	30.63	778.0	31.6	— 0.2	92	ne.	.....	.....	3	.....	2 ku	ne.	ne.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.56	700.1	30.22	767.5	31.5	— 0.3	72	e.	.....	.....	6	.....	0	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, du Rhone	29.02	737.1	30.21	767.2	36.3	2.4	71	nnw.	.....	.....	2	.....	7	.....	sw.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.54	750.3	30.35	770 9	35.6	2	61	nw.	.....	.....	1	.....	ku	.....	n.	0	0	.....	M. Ablard, Director.
Guéret	28 85	732.7	30.52	775 2	32.0	0	81	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	30.15	765.7	30.44	773.1	34.7	1.5	81	se.	.....	.....	1	.....	5	.....	se.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.80	757 0	30.39	771.8	46.0	7.8	86	wnw.	.....	.....	1	.....	8	.....	.....	0	0	very cloudy	M. Chanvin, Director.
Lorient, Naval Observatory	30.46	773.6	30.56	776.2	34.5	1.4	96	ese.	.....	.....	1	.....	10	.....	.....	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.31	744.4	30.43	772.8	32.7	0.4	75	nnw.	.....	.....	4	.....	0	.....	.....	0	0	clear	M. André, Director.
Mans, Normal School	30.28	769.0	30.61	777.4	35.6	2	71	ese.	.....	.....	4	.....	2	.....	se.	0	0	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.89	759 1	30.17	766.2	41.5	5.3	65	nw.	.....	.....	2	.....	8	.....	sw.	0	0	.....	M. Stephan, Director.
Montlouis	24.89	632.3	29.74	755.3	37.0	2.8	24	nw.	18.6	8.3	.....	.....	4	nw.	.....	0	0	.....	M Caré for Dr. Fines.
Montpellier, Normal School	30.10	764.6	30.24	768.0	43.2	6.2	61	n.	.....	.....	3	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.73	755.2	30.57	776.4	32.7	0.4	63	n.	.....	.....	2	.....	k	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	30.42	772.7	30.58	776.8	40 3	4.6	60	ese.	.....	.....	1–2	4 c;ck	0	wnw.	.....	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	30.14	765.6	30.26	768.5	46.0	7.8	57	nw.	29.8	13.3	.....	.....	0	.....	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.32	541.6	.....	.....	22.3	— 5.4	.....	ne.	.....	.....	3	.....	1	.....	sw.	0	0	clear	M. Vaussenat.
Privas, Normal School	29.17	740.8	30.43	772.9	30.0	2.2	61	n.	.....	.....	4	.....	2	.....	.....	0	0	slightly cl'dy	M. Taillen.
Puy de Dôme Obs'y, Summit	25.28	642.2	.....	.....	16.3	— 7.6	89	ne.	.....	.....	6	.....	0	.....	.....	0.016	0.4	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	30.47	774.0	30.50	774.8	39.6	4.2	77	ene.	.....	.....	3	.....	0	.....	.....	0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.24	768.0	30.47	773.8	37.0	2.8	58	ese.	.....	.....	1	.....	10	.....	.....	0	0	hazy	M. Brotier, Director.
Rodez, Normal School	28.14	714.8	30.39	771.9	34.7	1.5	52	nw.	.....	.....	1	.....	10	.....	se	.....	.....	snowing	M. Seger, Director.
Rouen, Normal School	30.52	775.3	30.57	776.5	35.6	2	67	ne.	.....	.....	1	.....	2	s.	.....	0	0	slightly cl'dy	M. Moutiliot.
Saint Lô	.....	.....	.....	.....	32.2	0.1	93	sw.	.....	.....	1	.....	10	.....	s.	0	0	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	30.46	773 7	30.63	777.9	35.4	1.9	63	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.73	755.1	30.46	773.7	30.2	— 1.0	100	nnw.	.....	.....	2	.....	10	nw.	.....	0	0	covered	M. Baillaud, Director.
Tours	30.38	771.7	30.56	776.2	36.7	2.6	82	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. de Tastes.
Versailles, Observatory	30.11	764.8	30.60	777.3	33.8	1.0	.....	e.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	30.30	769.6	30.45	773.4	42.3	5.7	84	n.	4.0	1.8	.....	.....	10 k	.....	s.	0	0	.....	M. Cartier, Director.
German.																			
Ansbach	29.04	737 6	30.60	777.1	28.8	— 1.8	75	ne.	.....	.....	2	.....	9	ne.	.....	0.028	0.7	.....	Prof. Jnedt.
Bamberg	29.64	752.8	30.50	774.6	30.9	— 0.6	63	nw.	.....	.....	2	.....	4	w.	.....	0.079	2.0	snowing	Prof. Dr. Hoh.
Berlin	30.48	773.5	30.61	777.4	31.3	— 0.4	48	ne.	.....	.....	3	.....	10	.....	.....	0	0	.....	Dr. Lensch.
Breslau	29.90	759.5	30.40	773.2	24.8	— 4.0	77	nnw.	.....	.....	4	.....	10	.....	.....	0.051	1.3	snowing	Royal University Obs'y.
Carlsruhe	30.13	765.3	30.60	777.3	32.4	0.2	71	ne.	.....	.....	2	.....	3	ne.	.....	.....	.....	light snow	Albert Senz.
Cassel	29.84	757 8	30.55	775.9	30.6	— 0.8	85	n.	.....	.....	4	.....	8	nw.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	.....	.....	.....	.....	33.1	0.6	78	nne.	.....	.....	2	.....	8	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	29.00	736.7	30.55	775.9	29.8	— 1.2	65	ne.	.....	.....	5	.....	5	ne.	.....	0.008	0.2	snowing	Wilhelm, Chief Tel.
Hamburg	30.65	778.6	30.74	780.9	30.2	— 1.0	76	ene.	.....	.....	2	.....	10	.....	.....	0	0	dense haze	E. Preller.
Kiel	30.72	780.4	30.74	780 8	30.4	— 0.9	70	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	30.17	766.2	30.62	777.7	28.0	— 2.2	89	n.	.....	.....	3	.....	10	.....	.....	.....	.....	snowing	H. Leppig, Asst.
Magdeburg	30.46	773.7	30.67	778.9	30.8	— 0.8	90	nne.	.....	.....	3	.....	10 ks	.....	ne.	0	0	.....	Weather Observatory.
Memel	30.53	775.5	30.58	776.7	17.4	— 8.1	80	ne.	.....	.....	4	1 c	0	.....	.....	.....	.....	.....	Iessermann.
Munich	28.58	725.9	30.47	773.9	28.9	— 1.7	75	nw.	.....	.....	2	.....	7	w.	.....	0.196	2.7	.....	Central Station.
Neufahrwasser	30.54	775.6	30.55	776.0	29.1	— 1.6	84	ne.	.....	.....	5	.....	3	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	30.05	763.3	30.59	777.0	34.2	1.2	77	n.	.....	.....	3	.....	7	n.	.....	0	0	.....	Dicknether.
Stuttgart	29.58	751.3	30.54	775.6	30.2	— 1.0	73	n.	.....	.....	2	.....	10	.....	.....	0.031	0.8	snowing	Prof. Dr. Schoder.
Wustrow	30.71	780.1	30.74	780.7	30.9	— 0.6	92	nne.	.....	.....	3	.....	10	.....	.....	0	0	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.60	751.9	30.00	761.9	52.5	11.4	.....	ne.	.....	.....	1.0	.....	6	.....	.....	0	0	.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.92	760.1	29.98	761.4	72.6	22.6	63	sw.	13.0	5.8	.....	.....	2	.....	.....	0	0	d. clouds	
Deesa	29.37	746.0	29.85	758.2	78.5	25.8	22	nnw.	12.0	5.4	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.84	757.9	29.88	758.9	79.9	26.6	53	nw.	5.0	2.2	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.98	710.7	29.82	757.5	81.7	27.6	25	w.	14.0	6.3	.....	.....	2	.....	w.	0	0	d. clouds	
Belgaum	27.30	693.5	29.82	757.4	80.0	26.7	32	wsw.	3.0	1.3	.....	.....	4	sw.	.....	0	0	d. clouds	
Lahore	29.14	740 2	29.91	759.7	65.6	18.7	45	calm	0	0	.....	.....	6	.....	.....	0	0	d. clouds	
Roorkee	28.93	734.8	29.85	758.3	67.2	19.6	41	w.	.....	.....	.....	.....	0	.....	.....	0	0	.....	
Agra	29.29	744.0	29.87	758.6	73.5	23.1	45	w.	.....	.....	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.80	731.4	29.86	758.4	69.5	20.8	69	calm	3.0	1.3	.....	.....	9	.....	sw.	0.12	3.0	gloomy	
Jubbulpore	28.48	723.2	29.84	758.0	74.5	23.6	39	nw.	6.0	2.7	.....	.....	6	.....	n.	0	0	d. clouds	
Lucknow	29.47	748.4	29.85	758.2	70.2	21.2	59	n.	4.0	1.8	.....	.....	2	.....	.....	0	0	d. clouds	
Allahabad	29.54	750.3	29.86	758.5	66.1	18.9	77	calm	0	0	.....	.....	3	w.	.....	0.02	0.5	d. clouds	
Patna	29.70	754.3	29.89	759.2	65.0	18.3	65	se.	1.8	0.8	.....	.....	4	se.	se.	0	0	d. clouds	
Hazaribagh	27.82	706.7	29.90	759 3	62.2	16.8	74	wsw.	4.4	2.0	.....	.....	2	.....	.....	0.10	2.5	drizzling	
Cuttack	29.80	756.9	29.88	759.0	77.3	25.2	54	calm	0	0	.....	.....	3	.....	.....	0	0	d. clouds	
Calcutta, Allpore	29.89	759.2	29.91	759.8	64.5	18.1	84	ssw.	2.0	0.9	.....	.....	8	.....	w.	0.03	0.8	gloomy	
Dhubri	29.77	756 0	29.90	759 2	66.3	19.1	83	calm	0.1	0.04	.....	.....	7	w.	.....	0.01	0.3	d. clouds	
Chittagong	29.84	757.8	29.93	760.2	66.1	18.9	71	calm	2.3	1.0	.....	.....	2	.....	.....	0	0	blue sky	
Sibsagar	29.64	752.8	29.99	761.8	59.1	15.1	88	ne.	2.0	0.9	.....	.....	10	w.	w.	0.02	0.5	overcast	
Zanzibar	29.78	756.5	29.81	757.1	83.6	28.7	69	ne.	6.2	2.8	.....	.....	9	.....	.....	0	0	gloomy	
Jeypore	28.40	721.4	29.88	758.8	68.7	20.4	73	n.	3.0	1.3	.....	.....	6	.....	n.	0.37	9.4	d. clouds	
Bellary	28.35	720.1	.....	.....	83.2	28.4	41	se.	.....	.....	.....	.....	.....	.....	.....	0	0	d. clouds	
Trichinopoly	29.62	752.3	.....	.....	83.1	28.4	60	e.	2	0.9	.....	5 c	0	.....	.....	0	c	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.																			
Udine	29.80	757.0	30.23	767.8	41.7	5.4	30	ne.	3.1	1.4			1			0	0		Prof. Giovanni Clodig.
Milan	29.71	754.7	30.26	768.5	39.2	4.0	52	ssw.	5.6	2.5			0			0	0		Prof. Schiapparelli.
Padua	30.12	765.0	30.23	767.9	41.0	5.0	30	ese.	0.7	0.3			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.32	744.7	30.27	768.8	39.6	4.2	49	ne.	0.7	0.3			0			0	0		Prof. F. F. Denza.
Genoa	30.01	762.2	30.21	767.2	42.3	5.7	37	n.	6.9	3.1			2	n.		0	0		Prof. G. M. Garibaldi
Mondovi	28.27	718.0	30.28	769.0	33.8	1.0	72	w.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	30.15	765.9	30.21	767.2	40.3	4.6	47	ne.	2.5	1.1			7	ne.		0	0		Prof. Luigi Guidi.
Florence	29.89	759.2	30.15	765.9	42.4	5.8	25	ne.			8		3	ne.		0	0		Prof. Costantino Pittei.
Leghorn	30.01	762.2	30.10	764.4	44.1	6.7	50	ene.	11.2	5.0			3			0	0		Prof. P. Monte.
Rome	29.79	756.6	29.97	761.2	46.4	8.0	25	nne.					1			0	0		Prof. P. Tachini.
Lecce	29.74	755.5	30.00	762.1	42.4	5.8	45	nne.	11.9	5.3			10			0	0		Prof. C. de Giorgi.
Cosenza	29.10	739.2	30.02	762.5	36.0	2.2	79	wnw.	3.8	1.7			10	w.		0	0		Prof. D. Conti.
Cagliari	29.58	751.2	29.78	756.3	48.9	9.4	80	nw.			2		10			0	0		Prof. A. Pacinotti.
Palermo	29.54	750.4	29.80	756.9	54.7	12.6	71	wsw.	9.4	4.2			9	wnw.		0.020	0.5		Prof. G. Cacciatore.
Syracuse	29.86	758.5	29.91	759.6	49.8	9.9	62	sw.	3.8	1.7			10	sw.					Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.43	747.4	29.97	761.2	39.4	4.1	58	ne.	12.5	5.6			10			0	0		Prof. F. Brioschi.
Stelvio	22.02	559.4			0.3	—17.6	49	ne.			6		6			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.04	559.9			11.8	—11.2	54	se.			6		6			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.25	768.3	30.28	769.1	26.3	— 3.2	100	nw.			2		10 ck		nw.	0.012	0.3	cloudy	Hattori.
Awomori	30.21	767.3	30.25	768.2	23.0	— 5.0	72	sw.	8.3	3.7			10 s			0.013	0.3	overcast	K. Ogawa.
Hakodate	30.20	767 1	30.21	767 4	17.0	— 8.3	93	nnw.	6.0	2.7		2	0			0.005	0.1	clear	
Hamamatsu	30.13	765.3	30.16	766.0	44.9	7.2	66	calm			0	0 ck	0	w.		0.079	2.0	cloudy	
Kagoshima	30.12	764.9	30.13	765.2	56.4	13.6	93	ne.			4		10 s			1.832	46.5	cloudy	G. Miyanohaza.
Kioto	30.06	763.6	30.25	768.3	35.5	1.9	90	nw.			0	0				0.005	0.1	clear	M. Tojima.
Kochi	30.18	766.7	30.21	767.2	47.9	8.8	86	nw.	1.4	0.6			10			0.394	10.0	raining	K. Kusunose.
Miasaka	30.16	766.0	30.19	766.7	51.1	10.6	99	calm			0		10 n		nw.	1.039	26.4	raining	K. Masusaki.
Nagasaki, I. M. Obs'y	29.93	760.1	30.13	765.4	50.3	10.2	92	ne.	2.7	1.2			10 n			inap	inap.	raining	S. Takehayashi.
Niigata	30.28	769.1	30.31	769.9	35.0	1.7	75	n.	9.3	4.1			rock;s		n.	0	0	covered	M. Morita.
Nobiru	30.23	767.7	30.24	768.1	28.8	— 1.8	67	n.	6.4	2.9		4 ck	6 ks			0	0	covered	H. Midzushima.
Numazu	30.11	764.7	30.14	765.6	42.0	5.6	78	calm			0	2 cs	0			0	0	clear	R. Kaneda.
Sakai	30.28	769.2	30.29	769.5	41.4	5.2	81	ne.			4		10 n		ne.	0.102	2.6	light rain	K. Yamawchi.
Sapporo					12.0	—11.1	92	se.	6.6	2.7			10			0.015	0.4	snowing	
Tokei Obs'y, Yeddo	30.09	764.3	30.17	766.3	41.5	5.3	53	n.	9.2	4.1		2ck;cs	0	w.		0	0	clear	The Staff.
Wakayama	30.17	766.3	30.22	767.7	43.5	6.4	81	n.	2.0	0.9		10 cs	0	w.		0.352	8.9	cloudy	Y. Kuwamuea.
Osaka	30.22	767.6	30.24	768.0	42.6	5.9	79	ne.	9.4	4.2		0	0			0.088	2.2	clear	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.68	752.9	29.86	758.4	82.2	27.9	67	nne.	12.0	5.4		2 c;cs	5 k;ks	nw.	nne.	0.29	7.4	fair	Oliver & Figon.
MEXICAN.																			
Altata					52.5	11.4	97	n.										cloudy	H. Diaz Pena.
Guanajuato	23.83	605.3	30.05	763.3	48.6	9.2	80	ssw.	inap.	inap.		0	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.51	622.5	30.33	770.4	48.7	9.3	88	sw.			1	0	7 ks			0	0	cloudy	Prof. M. Leal.
Mazatlan	29.87	758.7	30.14	765.4	62.5	16.9	69	nnw.	1.6	0.8		0	4 n		sw.	0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.27	590.9	30.52	775 2	42.1	5.6	81	nw.	0.7	0.3			10 k			0	0	covered	The Staff.
Morelia	24.17	614.0	30.01	762.3	46.8	8.2	64	se.			2	1 c	1 k	s.	s.	0	0	clear	M. Tena, M. D.
Pabellon	24.08	611.6	30.28	769.0	44.2	6.8	81	n.			1					0	0		
Puebla, Catholic Institute	23.53	597.6	30.54	775.7	40.1	4.5	46	nnw.	0.2	0.1		0	5		sse.	0	0	½ cloudy	Prof. P. Spina.
Zacatecas	22.69	576.3	30.60	777.3	34.7	1.5	98	ne.	7.7	3.4			10		ne.	0.160	4.0	foggy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.72	780.3	30.72	780.3	32.9	0.5		ese.			4					0	0		
Groningen	30.70	779.7	30.75	781.1	32.7	0.4		ene.			1					0	0		
Hellevoetsluis	30.73	780.6	30.73	780.6	32.2	0.1	86	ene.			1					0	0		
Utrecht	30.70	779.7	30.74	780.9	34 2	1.2	69	ene.			3		2			0	0	lightly cl'dy	H. van der Brink
Sub-series.																			
Batavia, Java	29.84	757.8			79.5	26.4	83	nnw.	0	0			9			0.08	2.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.58	776.6	30.64	778.2	32.7	0.4	64	s.	20	9			3			0	0		
Brono	30.32	770.2	30.36	771.2	38.1	3.4	44	sse.	18	8			4			0	0		
Christiania	30.63	778.0	30.80	782.2	12.7	—10.7	97	ene.	4	2			10			0	0		
Glæsvær	29.75	755.6	29.77	756.2	41.7	5.4		sw.			8		10					raining	
Lodingen	30.16	766.0	30.21	767.2	38.3	3.5	83	sw.			7		10			0.114	2.9		
PORTUGUESE.																			
Angra, Azores	30.21	767.4	30.37	771.4	58.3	14.6	72	ssw.	1.8	0.8			1			0	0		Dr. J. A. Sampaio.
Ozmpo Major	29.34	745.2	30.37	771.3	51.1	10.6	72	sw.	1.8	0.8			5			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.37	771.3	30.45	773.5	66.2	19.0	59	se.	4.9	2.2			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.09	764.2	30.45	773.5	55.2	12.9	64	n.	12.5	5.6			0			0	0		The Staff.
Ponta Delgada, Azores	30.27	768 8	30.34	770.6	64.4	18.0	71	calm	0	0			4			0	0		
Saint Paul de Loando	29.69	754.1	29.89	759.1	80.6	27.0	80	n.	1.8	0.8			9			0	0		
Serra da Estrella	25.56	649.2	30.39	771.9	43.7	6.5	24	wnw.	11.2	5.0			9			0	0		
RUSSIAN.																			
Akmolinski	29.05	737.8	30.24	768.1	5.2	—14.9	91	sw.	9	4			9 kn						Major K. Lasarew.
Archangel	30.38	771.6	30.40	772.1	5.7	—14.6	82	sw.	4	2			10			.0	0		Capt. Sselliwerstow.
Ashurada	30.21	767.3	30.11	764.9	40.1	4.5	81	ene.	7	3			9 ks;n			0	0		
Astrakhan	30.21	767.4	30.13	765 3	29.8	— 1.2	74	ne.	2	1			10 s			0	0	light clouds	Capt. Wieganow.
Baku	30.11	764.8	30.00	763.0	40.3	4.6	89	calm	0	0		0	1 k			0	0		
Barnaul	29.83	757.6	30.40	772 1	— 3.3	—19.6	80	sw.	9	4			10			0.031	0.8		Meteorological Obs'ty.
Bielosersk	30.17	766.2	30.70	779.8	— 2.4	—19.1	77	n.	2	1		0	0			0	0		
Dorpat	30.44	773.1	30.71	780.0	9.0	—12.8	70	nne.	7	3		0	0			0	0		Observatory.
Ekaterinburg	29.08	738.7	30.13	765.2	11.5	—11.4	89	sw	9	4			10			0.047	1.2	snowing	Meteorological Obs'y.
Elisawetgrad	29.42	747.2	29.89	759.2	28.8	— 1.8	90	e.	7	3			10 n			0.012	0.3		
Irkutsk	28.78	731.1	30.70	779.7	—14.1	—25.0	87	calm			0		10			0.008	0.2		
Kasan	29.99	761.7	30.28	769 2	16.0	— 8.9	75	wnw.	2	1			10			0.031	0.8	snowing	Observatory.
Kem	30.32	770.2	30.37	771.5	7.9	—13.4	90	sw.	9	4			10 ks			0	0		
Kertch	29.93	760.2	29.95	760.7	35.6	2.0	87	calm	0	0		0	5 k			0	0		Lagorio & Sastyrez.
Kieff	29.20	743.3	29.94	760.5	22.6	— 5.2	93	nne.	13	6			10ks;n			0.055	1.4		Observatory.
Koslov	29.03	752.7	30.21	767.2	17.4	— 8.1	92	ene.	13	6			10 s					light snow	
Libau	30.00	777.3	30.63	777.9	18.0	— 7.8	72	nne.	13	6			0			0	0		E. Quass.
Lugan	29.85	758 3	30.05	763.3	27.0	— 2.8	89	ese.	9	4			10			0.250	7.0		Meteorological Obs'y.
Moscow	29.84	757.8	30.36	771.1	19.8	— 6.8	85	nne.	8.9	4.0			10 n			0.024	0.6		
Nikolaiev	29.85	758.1	29.92	760.0	29.1	— 1.6	70	wsw.	9	4		0	2 ks			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.24	768.2	30.33	770.4	—16.2	—26.8	70	w.	2	1			0			0	0		Iwanow.
Pekin, China	30.33	770.4	30.47	774.0	18.5	— 7.5	64	se.	4	2		0	4 k			0	0		Physicle Observatory.
Petrozavodsk	30.43	773.0	30.66	778.7	3.6	—15.8	81	sw.	7	3		0	1 s			0	0		Dr. Bergmann.
Pinsk	29.61	752.0	30.13	765.4	24.1	— 4.4	89	n.	36	16			10 n			0.004	0.1	snowing	
Poti	29.90	761.0	29.98	761.5	43.9	6.6	23	e.	4	2		0	5 ks			0	0		
St. Petersburg	30.72	780 2	30.73	780.6	9.1	—12.7	80	ene.	4	2		0	0			0.004	0.1		Central Physical Obs'y.
Samarkand	27.45	697.3	30.00	762.0	36.1	2.3	58	calm	0	0			10 n						
Sevastopol	29.70	754.4	29.87	758.6	32.7	0.4	92	sw.	11	5			10 n			0.213	5.4		Major Lasarew.
Semipalatinsk	29.73	755.1	30.47	773.8	— 4.4	—20.2	74	e.	9	4			4			0	0		
Staroi Bykhov	29.70	755.8	30.25	768.3	21.7	— 5.7	77	nne.	18	8			10			0.100	2.7	snow-drift	Physical Observatory.
Tiflis	28.03	727.2	30.12	765.0	33.8	1.0	53	calm	0	0		0	0			0	0		
Tomsk	29.93	760.3	30.25	768.3	— 4.5	—20.3	82	s.	9	4			10					snowing	
Viatka	29.70	754.3	30.41	772.5	— 4.4	—20.2		calm	0	0			1			0	0		
Warsaw	29.89	759.3	30.35	770.9	22.1	— 5.5	80	ene.	16	7			10					snowing	Astronomical Obs y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Wilna	29.96	761.0	30.42	772.6	17.1	— 8.3	85	ne.	9	4			10			0	0	heavy clouds	Berg, Assistant.
Yeniseisk	30.21	767.3	30.55	776.0	—23.3	—30.7	80	calm	0	0			0			0	0	lunar corona	M. O. Marks.
Scottish.																			
Monach Lt			30.03	762.7	47	8.3	92	s.			7		10			0.4	10.	showery	J. Youngclauss.
North Unst			30.11	764.8				ssw.			8		10			blank	blank		Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.06	763.5	30.17	766.2	53.6	12.0	69	e.	2.2	1.0		0	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.40	772.2	30.46	773.7	52.9	11.6	65	w.	1.3	0.6		4	2	se.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.37	695.3	30.47	773.9	42.1	5.6	61	w.	2.0	0.9			1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	28.07	712.9	30.39	771.8	43.2	6.2	79	calm	0	0		0	1			0	0	almost clear	The Staff.
Murcia, Met. Obs'y	30.03	762.8	30.17	766.2	64.2	17.9	55	wnw.	4.0	1.8		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.60	751.9	30.48	774.2	33.8	1.0	93	s.	4.9	2.2		6 n	4 n	s.	s.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.47	748.5	30.40	772.2	43.7	6.5	86	calm	0	0			10			0	0	covered	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.91	759.6	29.96	761.0	76.9	24.9	72	ne.	4.9	2.2		4 c	1 k			0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.32	770 0	30.42	772.6	53.2	11.8	67	n.	4.5	2.0		1	2	w.	w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I.	30.07	763.7	30.16	766.0	77.0	25.0	77	se.	5.8	2.6		4 cs	3 k	e.	e.	0	0	d. clouds	Manuel Maese.
Swedish.																			
Hapsranda	30.36	771.1	30.40	772.1	11.1	—11.6	100	s.			2		8			0	0		
Umea	30.34	770.6	30.39	771.9	14.2	— 9.9	87	sw.			2		5			0	0		
Hernosand	30.61	777.4	30.66	778.7	10.4	—12.0	85	calm			0		0			0	0		
Stockholm	30.62	777.7	30.80	782.2	19.0	— 7.2	87	wnw.			2		10			0.004	0.1		
Wisby	30.67	779.1	30.73	780.6	27.3	— 2.6	83	e.			4		3			0	0		
Sub-series.																			
Upsala	30.69	779.5	30.78	781.7	21.7	— 5.7	90	ssw.	4.0	1.8			10			0	0		S. G. Fineman.
Swiss.																			
Geneva	28.89	733.9	30.39	771.9	31.3	— 0.4	74	nne.			8		1			0	0	clear	The Observatory.
Turkish.																			
Constantinople			30.07	763.7	39.9	4.4	60	nnw.	2	1.0			9		wsw.	0.157	4.0		The Observatory.
Valona			30.01	762.2	44.1	0.7		nw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.04	762.9	61.0	16.1	72	s.			2		4 n		sw.	0.66	16.8		Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.63	676.4			21	— 6.1	80	nw.			1	0	2 c		se.	0	0	clear	Fred L. Kingsbury.
United States.																			
Albany, New York	30.33	770.4	30.42	772 7	4	—15.6	60	w.	5	2.2		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.50	749.3	30.21	767.3	—11	—23.9	50	w.	15	6.7		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.35	643.9	30.47	773.9	17	— 8.3	73	ne.	2	0.9		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.11	688.6	30.15	765.8	11	—11.7	64	w.	11	4.9			10 s		w.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.40	746.7	30.62	777.7	23.0	— 5.0	61	nw.	6	2.7		0	0			0	0	clear	H. C. Smith.
Atlantic City, New Jersey	30.54	775.7	30.55	776.0	8	—13.3	34	w.	14	6.3		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.47	773.9	30.67	779.0	30	— 1.1	62	nw.	2	0.9		0	1 8			0	0	clear	John Healy.
Baltimore, Maryland	30.52	775.2	30.57	776.5	15	— 9.4	67	w.	4	1.8		0	0			0	0	clear	Geo W Felger.
Barnegat, New Jersey	30.52	775.2	30.54	775.7	8.0	—13.3	55	nw.	.22	9.8		0	0			0	0	clear	G. A. Hill.
Behring Id., Behring Sea	29.40	746.7	29.42	747.3	30.3	— 0.9		ne.	23	10.3			10 n			0	0	cloudy	Leonard Steineger.
Bennett, Fort, Dakota	28.81	731.8	30.55	776.0	— 5	—20.6	81	calm	0	0		2 c	3 s			0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.27	692.6	30.25	768.3	33	0.6	71	sw.	22	9.8		0	0			0	0	clear	S. Wheaton.
Billings, Montana																			T. Gibson.
Bismarck, Dakota	28.47	723.1	30.46	773.7	—16	—26.7	100	calm	0	0			10 s			0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.37	771.4	30.40	772.1	7	—13.9	52	n.	14	6.3		0	3 ks		w.	0	0	clear	J. T. Elker.
Boise City, Idaho	27.61	701.3	30.54	775.7	— 1	—18.3	91	n.	1	0.4		0	4 s			0	0	fair	B. E. Light.
Boston, Massachusetts	30.19	766.8	30.36	771.1	5.0	—15.0	49	w.	13	5.8		0	0			0	0	clear	O. B. Cole.
Brownsville, Texas	30.48	774.2	30.53	775.4	37.8	3.2	82	n.	6	2.7		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.52	749.8	30.32	770.1	6	—14.4	84	sw.	32	14.3		0	7 s		sw.	0.05	1.3	fair	W. Finn.
Buford, Fort, Dakota	28.16	715.3	30.36	771.1	— 3	—19.4	100	e.	7	3.1			10 n			inap.	inap.	light snow.	F. A. Mellen.
Burlington, Vermont	29.95	760.7	30.26	768.6	— 3.0	—19.4	83	s.	11	4.9		0	0			0	0	clear	G. C. Schaeffer.
Cairo, Illinois	30.18	766.6	30.60	777.2	22.0	— 5.6	73	sw.	1	0.4		6 ck	0	sw.		0	0	fair	W. H. Ray.
Cape Henry, Virginia	30.58	776.7	30.60	777.2	24	— 4.4	61	nw.	24	10.7		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.53	775.4	30.56	776.2	14.0	—10.0	64	nw.	34	15.2		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California																			J. J. McLean.
Cedar Keys, Florida	30.56	776.2	30.58	776.7	40	4.4	65	n.	15	6.7			10 ks		ne.	0.12	3.0	cloudy	F. W. Mixer.
Champaign, Illinois	29.70	754.4	30.58	776.7	0.0	—17.8	39	w.	8	3.6			10 s		w.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.58	776.7	30.64	778.2	35	1.7	64	nw.	6	2.7		6 cs	0	w.		0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.69	754.1	30.58	776.7	23.0	— 5.0	73	nw.	2	0.9		0	fg.			0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.79	750.7	30.65	778.5	23.5	— 4.7	60	w.	1	0.4		0	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.15	613.4	30.40	772.1	32.2	0.1	47	w.	16	7.2		5 c	0	w		0	0	fair	E. McGovern.
Chicago, Illinois	29.74	755.4	30.49	774.4	—14.3	—25.7	83	w.	11	4.9		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.55	776.0	30.57	776.5	16	— 8.9	67	n.	16	7.2		0	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.82	757.4	30.50	774.7	16	— 8.9	83	w.	7	3.1		0	3 s		w.	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.63	752.6	30.41	772.4	— 0.5	—18.1	83	w.	9	4.0		1 k	0	w.		0.02	0.5	clear	J. B. Newlin.
Coleman City, Texas	28.63	727.2	30.51	774.9	21	— 6.1	87	s.	4	1.8		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.54	750 3	30.44	773.2	12	—11.1	61	w.	6	2.7			10 n			0.04	1.0	light snow.	D. Cuthbertson.
Concho, Fort, Texas	28.47	723.1	30.49	774 4	27.0	— 2.8	67	calm	0	0		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.90	759.4	30.60	777.2	— 7	—21.7	58	nw.	6	2.7		1 cs	0	w.		0	0	clear	W. B. Lamar.
Davis, Fort, Texas	25.41	645.4	30.39	771 9	26	— 3.3	70	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.60	726.4	30.40	772.1	16	— 8.9	83	nw.	2	0.9			10 s			0	0	cloudy	D. Moore.
Deadwood, Dakota	25.35	643.9	30.29	769.4	21	— 6.1	87	w.	4	1.8			10 s			0.06	1.5	cloudy	F. Willson.
Delaware Breakwater, Del.	30.54	775.7	30.56	776.2	15	— 9.4	67	nw.	29	13.0		0	7 k		nw.	0	0	fair	T. S. Townsend.
Denison, Texas	29.69	754 1	30.53	775 4	28.0	— 2.2	77	s.	10	4.5		0	0			0	0	clear	J. W. Byram.
Denver, Colorado	24.88	631.9	30.40	772.1	30.0	— 1.1	61	se.	3	1.3		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.68	753.9	30.65	778.5	—11	—23.9	50	n.	3	1.3		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.64	752.8	30.40	772.1	0	—17.8	83	sw.	14	6.3		0	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.69	703.3	30.44	773.2	13	—10.6	60	sw.	6	2.7		0	0			0	0	clear	V. P. Temple.
Dubuque, Iowa	29.80	756.9	30.57	776.0	—14	—25.6	15	nw.	5	2.2		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.67	753.6	30.48	774.2	—29	—33.9	100	sw.	7	3.1		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.76	755.9	30.60	777.2	22.0	— 5.6	73	calm	0	0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.63	651.0	30.59	777.0	—20	—28.9	100	n.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.06	763.5	30.13	765.3	4.0	—15.6	72	w.	11	4.9		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.48	698.0	30.42	772.7	19	— 7.2	58	s.	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.63	676.4	30.51	774 9	25.2	— 3.8	70	w.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.62	752.3	30.39	771.9	— 1	—18.3	68	w.	18	8.0			10 n			0.12	3.0	light snow.	Peter Wood.
Escanaba, Michigan	29.58	751.3	30.30	769 6	—18.0	—27.8		w.	1	0.4		0	0			0	0	clear	George Heathcote.
Fredericksburg, Texas	28.75	730.2	30.57	776.0	30	— 1.1	70	sw.	3	1.3		0	0			0	0	clear	Frank Halwegler.
Galveston, Texas	30.54	775.7	30.59	777.0	38	3.3	72	e.	9	4.0		0	0			0	0	clear	E. O'C. Machernay.
Grand Haven, Michigan	29.64	752.8	30.35	770.9	.3.0	—16.1	72	w.	15	6.7			10 s		w.	0.05	1.3	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.52	648.2	30.42	772.7	33	0.6	81	ne.	3	1.3		0	0			0	0	clear	Robert G. Lord.
Hatteras, North Carolina	30.58	776.7	30.60	777.2	31	— 0.6	88	nw.	12	5.4		6 k	3 s	n.		0	0	cloudy	R. M. Crawford.
Helena, Montana	25.86	656.8	30.29	769.4	25	— 3.9	76	sw.	16	7.2			10 s		calm	0	0	cloudy	N. C. Smith.
Henrietta, Texas																			J. P. Sherry.
Huron, Dakota	29.07	738.4	30.61	777.5	—15.7	—26.5		nw.	2	0.9		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.67	753.6	30.51	774.9	3	—16.1	72	nw.	7	3.1		0	9 s		w.	inap.	inap.	cloudy	J. F. Jirdinston.
Indianola, Texas	30.59	770.2	30.59	777.0	37.2	2.9	85	ne.	12	5.4		0	0			0	0	clear	I. A. Reed.
Jacksboro, Texas	29.28	743.7	30.52	775.2	28	— 2.2	64	se.	10	4.5		0	0			0	0	clear	D. J. Carr.
Jacksonville, Florida	30.59	777.0	30.64	778.2	39	3.9	65	n.	1	0.4			10 s			0.15	3.8	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.54	699.5	30.23	767.8	4	—15.6	70	ne.	3	1.3		10 cs	0	nw.		inap.	inap.	cloudy	A. Schneider.
Keokuk, Iowa	29.90	759.4	30.60	777.2	0.0	—17.8	68	n.	5	2.2		2 cs	0			0	0	clear	F. Z. Gosewisch.

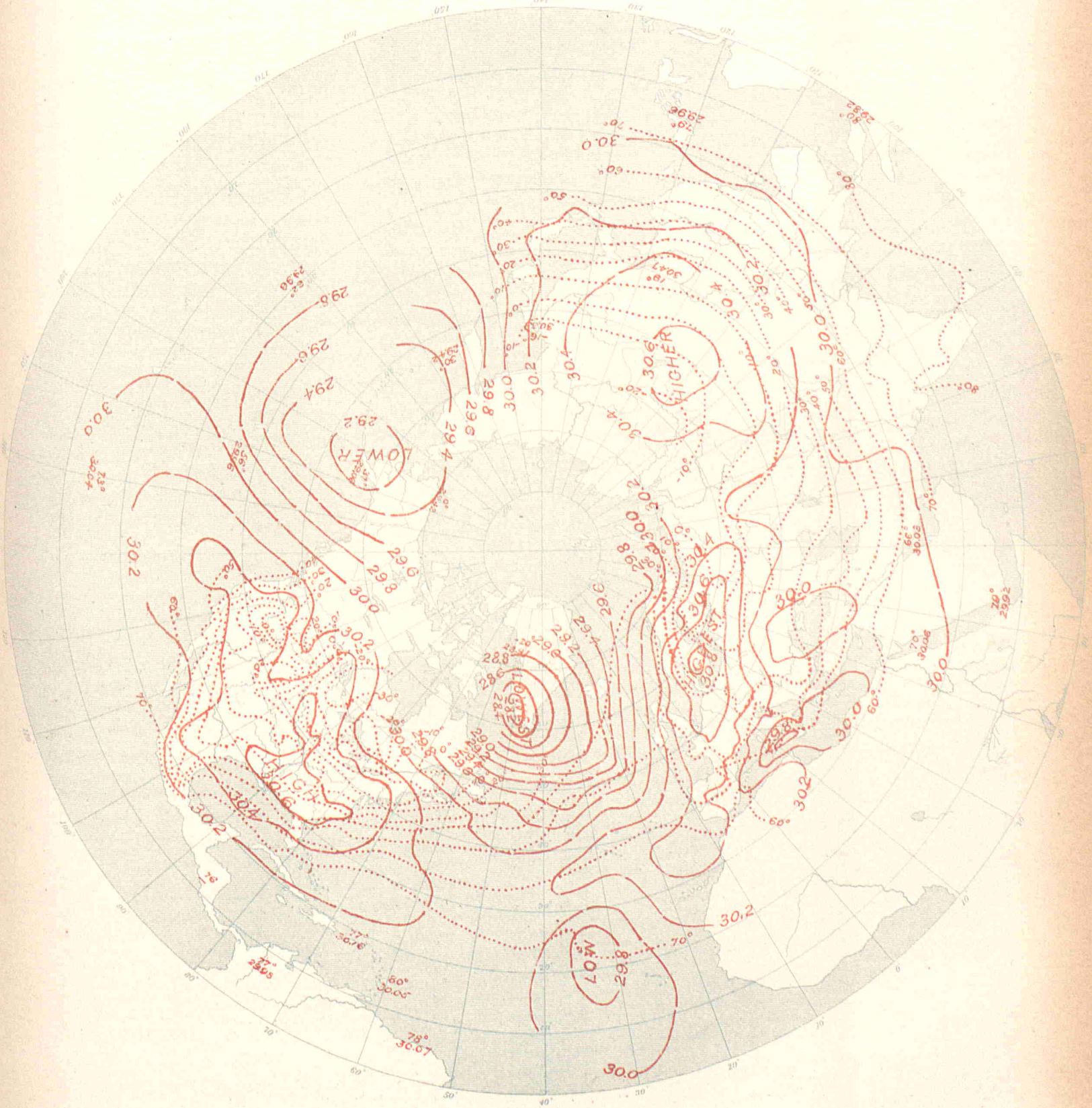
STATIONS	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the last 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Key West, Florida	30.27	768.8	30.29	769.4	67.0	19.4	87	ne.	25	11.2			10 s		ne.	0	0	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.57	776.5	30.59	777.0	26	— 3.3	51	nw.	14	6.3		2 c	2 s	nw.		0	0	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	29.53	750.0	30.61	777.5	17	— 8.3	72	w.	6	2.7		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.70	754.4	30.54	775.7	—21	—29.4	100	w.	3	1.3		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.65	753.1	30.61	777.5	9	—12.8	76	calm	0	0		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.64	752.8	30.51	774.9	12.0	—11.1	80	se.	1	0.4			10 s			0	0	cloudy	W. Bell.
Little Rock, Arkansas	30.25	768.3	30.58	776.7	29	— 1.7	56	sw.	4	1.8		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.92	760.0	30.32	770.1	53	11.7	31	ne.	8	3.6		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.91	759.7	30.50	774.7	25	— 3.9	73	sw.	7	3.1			10 s			0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.81	757.2	30.53	775.4	20	— 6.7	40	sw.	4	1.8		0	0			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.49	749.0	30.19	766.8	— 5.0	—20.6	79	w.	11	4.9		0	0			0.08	2.0	clear	F. R. Day.
Macon, Fort, North Carolina	30.59	777.0	30.60	777.2	30.0	— 1.1	47	nw.	12	5.4		8 cs	0	sw.		0	0	cloudy	William Daly.
Madison, Wisconsin	29.36	745.7	30.45	773.4	—21	—29.4	63	w.	15	6.7		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.48	647.2	30.03	762.7	34	1.1	60	nw.	32	14.3			10 s		w.	0	0	cloudy	F. Burke.
McKavett, Fort, Texas	28.12	714.2	30.51	774.9	26	— 3.3	67	s.	3	1.3		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.40	746.7	30.18	766.6	—11	—23.9	50	w.	17	7.6		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	30.26	768.6	30.62	777.7	28	— 2.2	77	sw.	8	3.6		0	0			0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.65	753.1	30.45	773.4	—20	—28.9	100	w.	18	8.0		0	0			0	0	clear	W. Line.
Missoula, Fort, Montana	26.91	683.5	30.37	771 4	20	— 6.7	48	nw.	2	0.9		0	4 s			0	0	fair	I. H. Young.
Mobile, Alabama	30.60	777 2	30.64	778.2	32	0.0	68	ne.	4	1.8		0	0			0	0	clear	C. A. Read.
Montgomery, Alabama	30.39	771.9	30.63	778.0	30	— 1.1	78	ne.	2	0.9		0	0			0	0	clear	J. B. McLaughlin
Moorhead, Minnesota	29.46	748.3	30.57	776.0	—33	—36.1	100	w.	2	0.9		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.42	747.3	30.18	774.2	10.0	—12.2	73	calm	0	0		0	0			0.01	0.3	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.21	589.5	29.84	757.9	—28.0	—33.3	100	nw.	40	17.9			fg.		nw.	0	0	dense fog	S. W. Beall.
Nashville, Tennessee	29.97	761.2	30.58	776.7	21.0	— 6.1	76	s.	1	0.4		0	sk.			0	0	dense smoke	L. N. Jesunofsky.
New Haven, Connecticut	30.33	770.4	30.45	773.4	1	—17.2	59	w.	8	3.6		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.43	772 9	30.48	774.2	5	—15.0	49	w.	3	1.3		2 k	0	sw.		0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.55	776.0	30.61	777.5	38.0	3.3	49	e.	7	3.1		0	0			0	0	clear	L. Dunne.
Newport, Rhode Island	30.35	770.9	30.40	772.1	5.4	—14 8	71	w.	17	7.6		0	0			0	0	clear	W. McGillivray.
New York, New York	30.31	769.9	30.50	774.7	3.5	—15.8	59	w.	12	5.4		0	0			0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.55	776.0	30.58	776.7	27	— 2.8	54	nw.	12	5.4		0	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.36	694.9	30.48	774.2	— 4	—20.0	72	calm	0	0		5 cs	0			inap.	inap.	fair	E. F. Brady.
Olympia, Washington T'y.	30.26	768 6	30.30	769.6	35.0	1.7	89	calm	0	0		9 k	0	w.		0.01	0.3	cloudy	J. Dascomb.
Omaha, Nebraska	29.33	746.2	30.65	778.5	— 2.1	—18.9	62	ne.	7	3.1			10 ks		n.	0.01	0.3	cloudy	A. Pollak.
Ooglaamie, Alaska	29.40	746.7	29.42	747.3	0.0	—17.8	100	ese.	32	14.3			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.94	760.5	30.29	769 4	7.5	—13.6	32	sw.	18	8.0		0	5 k		w.	inap.	inap.	fair	J. G. Linsley.
Palestine, Texas	30.06	763 5	30.64	778.2	28.0	— 2.2	77	s.	1	0.4		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.63	778.0	30.66	778.7	33.2	0.7	54	ne.	9	4.0		2 cs	0	ws		0	0	clear	M. McGauran.
Philadelphia, Pa	30.46	773.7	30.55	776.2	9.5	—12.5	56	sw.	6	2.7		0	0			0	0	clear	T. T. Townsend.
Pike's Peak, Colorado	17 85	453.4	30.55	776.0	10	—12.2	73	nw.			4	0	0			0	0	clear	H. Hall.
Ploche, Nevada	24.33	618 0	30.53	775.4	23	— 5.0	56	sw.	1	0.4		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.59	751.6	30.44	773.2	8.0	—13.3	76	sw.	8	3.6		0	0			inap.	inap.	clear	W. A. Reid.
Poplar River, Montana	28.00	711.2	30.35	770.9				nw.			1	0	0			d	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.58	776.7	30.59	777.0	47.8	8.8	78	ne.	15	6.7		4 cs	0	sw.		0	0	fair	H. B. Boyer.
Port Huron, Michigan	29.64	752.8	30.37	771.4	—10.1	—23.4	78	sw.	12	5.4		0	0			0	0	clear	W. O. Bailey.
Portland, Maine	30.24	768.1	30.29	769.4	4.0	—15.6	69	nw.	11	4.9		0	2 s	nw.		c	0	clear	W. W. Eichelberger.
Portland, Oregon	30.20	768.6	30.33	770.4	32.8	0.4	68	n.	2	0.9		1 ck	0	sw.		0	0	clear	M. L. Hearne.
Portsmouth, N. C.					31	— 0.6	57	nw.			2	3 c	2 ks	sw.		0	0	fair	F. S. Coburn.
Prescott, Arizona	25.66	636.5	30.44	773.2	20	— 6.7	87	w.	2	0.9		0	0			0	0	clear	W. H. Clendenon.
Provincetown, Mass.	30.29	769.4	30.32	770.1	5	—15.0	76	w.	16	7.2		1 k	2 s	w.		0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.39	771.9	30.40	772.1	52.5	11.4	86	ne.	20	8.9		3 cs	7 ks	sw.	ne.	0	0	cloudy	W. J. Evans.
Red Bluff, California	30.07	763 8	30.44	773.2	31	— 0.6	78	nw.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.61	752.1	30.32	770.1	— 4	—20.0	81	sw.	9	4.0		hz.	5 k		sw.	inap.	inap.	fair	E. W. McGann
Roseburg, Oregon	29.77	756.1	30.34	770.6	29.5	— 1.4	88	calm	0	0		8 c	0	w.		0	0	cloudy	J. J. Nanry.
Sacramento, California	30.30	771.1	30.44	773.2	34.8	1.6	79	w.	1	0.4		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.96	761.0	30.60	777.2	11.0	—11.7	80	n.	10	4.5			10 s		n.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.17	740.9	29.20	741.7	17	— 8.3	100	ne.	10	4.5		0	8 ks		ne.	0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.60	751.8	30.54	775.7	—26.0	—32.2	100	sw.	5	2.2		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.52	749.8	30.50	774.7	—32	—35.6	100	calm	0	0		3 cs	0			0	0	clear	O. B Dilley.
Salt Lake City, Utah	26.02	660.9	30.59	777.0	17	— 8.3	70	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.84	757.9	30.57	770 5	26.0	— 3.3	64	w.	1	0.4		0	0			0	0	clear	T. J. Kenan.
San Diego, California	30.20	767.1	30.27	768.8	45.3	7.4	48	n.	2	0.9		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.71	754.6	30.43	772.9	— 2	—18.9	65	w.	18	8.0		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.49	774.4	30.52	775.2	5.0	—15.0	76	nw.	28	12.5		3 k	0	nw.		0	0	clear	B. A. Blundon.
San Francisco, California	30.33	770.4	30.40	772.1	42.5	5.8	71	n.	8	3.6		1 cs	0	nw.		0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.44	595.4	30.49	774.4	16	— 8.9	51	ne.	17	7.6		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.56	776.2	30.66	778.7	35	1.7	53	nw.	8	3.6		9 cs	0			0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.35	669.3	30.21	767.3	38	3.3	56	sw.	18	8.0		8 k	0	nw.		0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	30.30	771.1	30.61	777.5	26	— 3.3	76	se.	1	0.4		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	29.18	741.2	30.51	774.9	25.5	— 3.6	66	nw.	1	0.4		0	0			0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.54	623.3	30.40	772.1	21.5	— 5.8	86	n.	3	1.3		0	0			0	0	clear	N. D. Lane.
Sitka, Alaska	29.59	751.6	29.66	753.4	44.2	6.8	56	n.	6	2.7		1 c	0	n.		0.55	14.0	clear	F. W. Fickett.
Smith, Fort, Arkansas	30.05	763.3	30.55	776.0	19.0	— 7.2	84	n	3	1.3		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.60	777.2	30.64	778.2	29	— 1.7	67	n.	6	2.7		4 cs	0	w.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.30	718.8	30.44	773.2	22.2	— 5.4	83	w.	2	0.9			10 s			0	0	cloudy	H. Clifford.
Springfield, Illinois	29.88	758.9	30.61	777.5	6	—14.4	86	nw.	6	2.7			10 n			0.01	0.3	light snow	T. B. Jennings.
Springfield, Missouri	29.00	736.6	30.52	775.2	24.5	— 4.2	73	sw.	6	2.7		0	0			0	0	clear	J. H. Bryce.
Starkville, Miss.	30.14	765.5	30.64	778.2	25	— 3.9	92	s.	4	1.8		0	0			0	0	clear	G. Dill.
Stevenson, Fort, Dakota	28.39	721.1	30.45	773.4	—13	—25.0	50	nw.	2	0.9			10 s			0	0	cloudy	W. Burrows.
Stockton, Fort, Texas	27.31	693.7	30.45	773 4	21	— 6.1	61	nw.	8	3.6		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass.	30.28	769 1	30.34	770.0	3.0	—16.1	72	nw.	24	10.7		5 k	0	w.		0	0	fair	G. Liebmann.
Thomas, Camp, Arizona	27.63	701.8	30.46	773.7	24	— 4.4	88	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.68	753.9	30.42	772.7	— 2	—18.9	65	sw.	13	5.8		0	0			0	0	clear	A. Buell.
Tucson, Arizona	27.85	707.4	30.35	770.9	32	0.0	81	e.	1	0.4		0	0			0	0	clear	J. L. Whiteside
Umatilla, Oregon	30.16	766.1	30.55	776.0	23	— 5.0	88	sw.	2	0.9		4 ck	0 s	w.		inap.	inap.	cloudy	J. Daly.
Verde, Fort, Arizona					22.5	— 5.3	48	nw.			1	0	0			0	0	clear	D. Brooks.
Vicksburg, Mississippi	30.39	771.9	30.66	778.7	29.0	— 1.7	60	calm	0	0		0	hz.			0	0	clear	James Kenealy.
Visalia, California	30.01	762.2	30.40	772.1	29.9	— 1.2	67	ne.	3	1.3		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.59	624.6	30.38	771.6	16.5	— 8.6	75	calm	0	0		0	0			0	0	clear	T. M. Ambler.
Washington, D. C.	30.40	773.7	30.58	776.7	10.3	—12.1	83	sw.	2	0.9		0	0			0	0	clear	B. M. Pursell.
West Las Animas, Colorado	26.29	667.8	30.43	772.9	4	—15.0	76	nw.	5	2.2		2 cs	0	w.		0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.82	757.4	30.45	773.4	— 3.8	—19.9	83	e.	4	1.8		0	hz.			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.57	776.5	30.63	778.0	33	0.6	50	n.	3	1.3		3 c	0	nw.		0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.99	659.4	30.50	774.7	5	—15.0	64	e.	12	5.4		0	3 s			0	0	clear	J. Grover.
Yankton, Dakota	29.23	742.4	30.05	778.5	— 8	—22.2	58	n.	2	0.9		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	30.17	766.3	30.32	770.1	50.0	10.0	28	n.	10	4.5		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			50.0	10.0	70	calm	0	0		4 c	0	w.		0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.14	765.5	30.15	765.8	69	20.6	79	calm	0	0		0	0			0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.07	763.8	30.07	763 8	78	25.0	91	e.			3		8 ks	e.		0.020	0.5	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Colmbia	29.42	747.3	29.93	760.5	77	25.0	89	calm			0	5 ck	5 ks	sw.	n.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					76	24.4	93	ne.			1	0	0 ks		ne.	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.00	736.6	29.06	738 1	37	2.8	89	e			3		10 n			1.58	40.1	light rain	W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallon.
York Factory B. A.	30.02	762.5	30.09	764.3	—30.0	—34.4		nw.	24	10.7			10 n		nw.	0.18	4.6	snowing	Fortescue & Wood

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Amethyst, Port Stanley, Falkland Island†	28.96	735.6	45	7.2	84	s.			1		9							raining.
H. M. S. Audacious, Hong-Kong, China	29.90	759.4	65	18.3	83	calm			0		7	e.						misty.
H. M. S. Boadicea, St. Helena Island	30.01	762.2				sse.			1–3		3							d. clouds.
H. M. S. Champion, Singapore, Malay Peninsula	29.82	757.4	80	26.7	82	var.			1		6					1	ne.	d. clouds.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.05	763.3	46	7.8	92	w.			3		10							d. clouds.
H. M. S. Comus, S. 0° 40′, W 83° 50′	30.00	762.0	73	22.8	90	s.			2		4					2	s.	misty.
H. M. S. Constance, S. 15° 12, W. 34° 53′	30.01	762.2	82	27.8		ese.			2		7	ese.				1	ese.	showery
H. M. S Curacoa, Yokohama, Japan	29.95	760.7	46.5	8.1	69	nnw.			3–4		7	nw.						misty.
H. M. S. Crocodile, N. 14° 35′ E. 42° 27′	29.92	760.0	79	26.1	82	s.			1–2		2							blue sky.
H. M. Dock-Yard, Bermuda, W. I.	30.26	768.6	61	16.1	94	nnw.			5–6		10	nnw.						squally.
H. M. S. Dryad, N. 14° 25′ E. 94° 00′	29.90	759.4	80	26.7		w.			1–2		4	ne.				1	w.	d. clouds.
H. M. S. Eclipse, N. 18° 54′ E. 72° 49′	29.74	755.4	85	29.4		calm			0		1							blue sky.
H. M. S. Eurydus, Triacomalee, Ceylon, India	29.83	757.7	80	26.7	86	ne.			1		1	ne.						blue sky.
H. M. S. Espeigle, S. 37° 41′, E. 152° 07′	29.84	757.9	67	19.4	94	ese.			5		6					6	var.	d. clouds.
H. M. Fawn. S. 15° 55′, W. 5° 45′	29.99	761.7	73.5	23.1	81	e.			2		5							d. clouds.
H. M. S. Flying Fish, Nagasaki, Japan	30.10	764.5	52	11.1	96	n.			1		10							raining.
H. M. S. Fox Hound, Sarawak, Borneo	29.87	758.7	75.5	24.2		calm			0		9							showery.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.94	760.5	59	15.0	81	calm			0		0							misty.
H. M. S Heroine, S. 25° 48′, W. 40° 35′	30.03	762.7	80	26.7	82	nne.			3		4	ne.				sm'h		d. clouds.
H. M. S. Himalaya, N. 22° 43′, E. 39° 35′	30.01	762.2	77	25.0	69	nne.			3–4		2					1	nnw.	blue sky.
H. M. S. Iron Duke, N. 25° 20′, E. 35° 50′	30.06	763.5	70	21.1	95	nnw.			3		5	n.				2	nw.	d clouds.
H. M. S. Kingfisher, Callao Bay, Peru	30.00	762.0	68	20.0		calm			0		10							foggy.
H. M. S. Lark, S. 34° 50′, E. 174° 49′	29.97	761.2	67.3	19.6	81	ene.			4		10					1	e.	showery.
H. M. S. Magpie, N. 34° 41′ E. 135° 12′	30.23	767.8	45.9	7.7	75	nnw.			1		0					1	ese.	misty.
H. M. S. Monarch, Port Said, Egypt	30.07	763.8	60	15.6	82	sw.			2		6							d. clouds.
H. M. S. Mutine, N. 15° 00′, W. 139° 25′	30.04	763.0	72.5	22.5		ne.			5		5					4	ene.	d. clouds.
H. M. S. Rocket, Valdivia, Chili	30.00	762.0	62	16.7	88	calm			0		6							raining.
H. M. Sarapis, N. 17° 30′ E. 66° 46′	29.91	759.7	76	24.4	95	nne.			2		2					1	nne.	blue sky.
H. M. S. Superb, N. 36° 12′, E. 26° 38′*	30.00	762.0	55	12.8	55	w.			3		7	ssw.				3	wnw.	d. clouds.
H. M. S. Swiftsure, Bay of Payta, Peru	30.06	763.5	67	19.4	94	e.			1		6					1	s.	d. clouds.
H. M. S. Sylvia, S. 53° 04′, W. 73° 56′	29.22	742 2	41.7	5.4	79	wsw.			4		9							d. clouds.
H. M. S. Tourmaline, Bombay, India	29.38	758.9				w.			1		0							blue sky.
H. M. Tyne, N. 20° 54′, W. 14° 23′	30.37	771.4	63	17.2	71	ese.			3–4		8					2	ese.	d. clouds.
H. M. S. Woodlark, Bushire, Persia	29.93	760.2	65.5	18.6	63	nw.			6		2					5	nnw.	squally.
Portuguese Naval.																		
Tamega, Macao, China	30.02	762.4	67.1	19.5	90	calm			0		0			0	0			blue sky
United States Naval.																		
Navy Yard, Pensacola, Fla*	30.67	779.0	36	2.2	90	ne.	8	3.6			5		ne.	0	0			fair.
Navy Yard, Portsmouth, N. H.*	30.27	768.8	1	—17.2	?	nw.	17	7.6			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	30.02	762.5	43.5	6.4	48	ne.			3		5		wnw.	0	0			fair.
Adams, Sitka, Alaska†	29.68	753.9	35	1.7	90	e.			1		2							fair.
Alaska, Mare Island, Cal.	30.36	771.1	40	4.4	81	e.			1		0			0	0			clear.
Alliance, N. 11° 16′, W. 80° 27′	29.97	761.2	79	26.1	90	ene.			4		8			0	0	mod.		cloudy.
Brooklyn, Keel Point, Patagonia*	29.15	740.4	47	8.3	77	sw.	42	18.8			2		sw.	0.51	13.0	mod.	sw.	fair.
Colorado, New York, N. Y.	30.61	777.5	3	—16.1	100	nw.	15	6.7			0			0	0			clear.
Enterprise, N. 20° 20′, W. 35° 44′*	29.84	757.9	70	21.1	79	ne.			8		8		n.			r'gh		cloudy
Essex, Callao, Peru	29.98	761.5	68	20.0	90	calm			0		10							foggy.
Franklin, Norfolk, Va	30.58	776.7	26	—3.3	?	nw.	14	6.3			2		n.	0	0			fair.
Galena, Montevideo, Uruguay*	29.73	755.1	72	22.2	90	w.			4		0					mod.	w.	hazy.
Hartford, Callao, Peru*	29.94	760.5	68	20.0	94	sse.			1		10					sm'h	s.	foggy.
Independence, Mare Island, Cal.	30.41	772.4	35	1.7	80	e.			1		5			0	0			fair.
Iroquois, Callao, Peru	30.01	762.2	68	20.0	94	calm			0		10							foggy.
Jamestown, N. 37° 23′, W. 63° 05′	30.20	767.1	51	10.6	86	nw.			5		10		nw.			mod.	nw.	cloudy.
Juniata, N. 36° 08′ W. 5° 05′*	30.36	771.1	66	18.9	78	nw.			4		0			0	0	sm'h		clear.
Kearsarge, La Guayra, Venezuela	30.00	762.0	75	23.9	81	calm			0		8					mod.	ne.	fair.
Lackawanna, N. 20° 16′ W. 153° 53′			74	23.3	76	e.			3		5		e.			sm'h	e.	fair.
Lancaster, Villefranche, France	30.12	765.0	54	12.2	55	sse.			4		0							clear.
Michigan, Erie, Pa	30.27	768.8	3	—16.1	20	w.			6		10		e.					snowing.
Minnesota, New York, N. Y.	30.50	774.7	3	—16.0	100	nw.	4	1.8			2							fair.
Monocacy, Nagasaki, Japan	30.13	765.3	53	11.7	100	n.			2		10		nnw.					raining.
New Hampshire, Newport, R. I.	30.37	771.4	6	—14.4	100	wnw.			5		2		wnw.			sm'h		fair.
Nipsic, Lisbon, Portugal	30.46	773.7	61	16.1	66	n.			1		2		nw.					clear.
Onward, Callao, Peru†	30.09	764.3	66	18.9	94	sse.			1		10		n.					foggy.
Palos, Tientsin, China*	30.41	772.4	15	— 9.4	100	calm			0		5		calm					fair.
Pensacola, Payta, Peru*	29.92	760.0	70	21.1	90	calm	0	0			5			0	0	sm'h		fair.
Portsmouth, N. 40° 23′, W. 67° 46′	30.27	768.8	21	— 6.1	?	nw.			5		10		nw.			sm'h	nw.	cloudy.
Powhatan, Boston, Mass.	30.35	770.9	1	—17.2	100	w.			2		0							clear.
Quinnebaug, Genoa, Italy	30.24	768.1	45	7.2	46	nne.			4		2		nne.					fair.
Ranger, N. 28° 00′, W. 115° 10′*	30.19	766.8	60	15.6	70	nne.			3		5		ne.	0	0	sm'h	n.	fair.
Richmond, Mouth Canton River, China*	29.91	759.7	65	18.3	94	calm			0		0			0	0			clear.
Saratoga, New York, N. Y	30.50	774.7	5	—15.0	?	nw.			3		0			0	0			clear.
St. Louis, League Island, Pa	30.57	776.5	6	—14.4	100	w.	12	5.4			0			0	0			clear.
Tennessee, St. Thomas, W. I*	30.16	766.1	79	26.1	82	ene.	5	2.2			8			light	light			fair.
Vandalia, Samana Bay, San Domingo, W. I*	30.17	766.3	77	25.0	86	ene.			2		5		e.					fair.
Wabash, Boston, Mass.	30.36	771.1	0	—17.8	?	nw.	10	4.5			0			0	0			clear.
Wachusetts, N. 33° 45′ W. 130° 57′	30.31	769.9	59	15.0	76	ssw.			1		8					sm'h		cloudy.
Wyandotte, Washington, D. C	30.43	772.9	31	— 0.6	89	sw.			1		6		w.	0	0			cloudy.
Yantic, off Pearl Cay Island, Nicaragua	30.09	764.3	76	24.4	100	ene.			3		2					sm'h		clear.
Merchant Marine.																		
S. S. Grecian, N. 47° 27′ W. 6° 18′	30.44	773.2	47	8.3	85	s.			4		10		s.	0	0	mod.	sw.	cloudy.
S. S. Scandinavian, N. 45° 52′, W. 48° 12′	29.86	758.4	25	— 3.9		w.			7		10		w.	sleet	sleet	high	w.	rain & snow
S. S. British Crown, N. 42° 15′, W. 57° 54′†	30.02	762.5	32	0.0		wnw.			6		10		wnw.	sleet	sleet	mod	wnw.	sleeting.
S. S. British Prince, N. 50° 54′, W. 16° 31′†	30.00	762.0	52	11.1		s.			5		7		s.	0	0	r'gh	var.	cloudy.
S. S. Indiana, N. 44° 03′, W. 47° 44′			34	1.1	79	wnw.			6		10		nw.	snow	snow	r'gh	nw.	snowing.
S. S. Lord Clive, Philadelphia, Pa	30.54	775.7				w.			4		0			0	0			fine.
S. S. Lord Gough, N. 50° 30′ W. 21° 29′	29.49	749.0	50	10.0		s.			6		10		s.	3 h'r	3 h'r	high	s.	overcast.
S. S. Ohio, N. 44° 37′, W. 53° 11′			29	— 1.7	89	wnw.			6		8		w.			mod.	wnw.	snowy.
S. S. Pennsylvania, Delaware River†	30.44	773 2	0	—17.8		w.			2		10?			0	0			clear.?
S. S. Stella, N. 41° 04′ W. 59° 40′	30.03	762.7	39	3.9		wnw.			6		6		nw.	2 h'r	2 h'r	6	w.	showery.
S. S. Anchoria, N. 50° 39′, W. 36° 30′†	29.41	747.0				w.			8		2		w.	sh'g	sh'g	h'vy	w.	clear.
S. S. Bolivia, N. 54° 00′, W. 25° 16′	29.14	740.1	46	7.8	100	w.			9		10		w.	4 h'r	4 h'r	high	var.	
S. S. Dorian, N. 37° 31′, W. 13° 10′*	30.33	770.4	60	15.6		sw.			2		2		sw.	o	o	long	wnw.	clear.
S. S. Ailsa, N. 17° 58′ W. 76° 46′†	30.21	767.3	75	23.9	95	e.			2		1		e.	o	o	sm'h	e.	fair.
S. S. Antillas, Kingston, Jamaica, W. I†	30.19	766.8				ne.			1		1		ne.	o	o			
S. S. Ambrose, Manaos, Brazil†	29.98	761.5	79	26.1		calm			0		2			o	o			clear.
S. S. Landaff City, N. 51° 41′, W. 15° 35′ *†	29.80	756.9	48	8.9		ssw.			7		8		sw.	o	o	h'vy	sw.	cloudy.
S. S. Auckland, S. 38° 32′, W. 31° 16′	30.08	764.0	64	17.8	78	n.			3		6							blue sky.
S. S. British Merchant, N. 34° 27′, W. 124° 38′	30.43	772.9	51.6	10.9	83	nnw.			4		8							d. clouds.
S. S. Caldew, S. 29° 51′, E. 39° 52′	30.01	762.2	74.5	23.6	95	s.			6		8							d. clouds.
S. S. City of Agra, S. 29° 52′, W. 27° 50′	30.20	767.1	84	28.9	91	nnw.			1		3							overcast.
St. Kilda, N. 44° 08′ W. 25° 50′	30.18	766 6	84.5	12.5	80	ssw.			7		10							d. clouds.
S. S. Scotia, N. 15° 45′, E. 41° 32′	29.94	760.5	88	31.1	59	nw.			1–5		1							blue sky.
S. S. Mexico, N. 32° 28′, W. 117° 41′†	30.34	770.6	57	13.9	76	calm			0		0					long	wnw.	
S. S. Bothnia, N. 42° 54′, W. 53° 31′	29.93	760.2	34	1.1	90	nw.			5		9		nw.	hail	hail	r'gh	wnw.	squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MERCHANT MARINE —Continued.																		
S. S. Marathon, N. 42° 26′ W. 54° 50′	30.12	765.0	36	2.2	.....	nw.	.....	.....	3	.....	10	.....	nw.	snow	snow	mod.	w.	snowing.
S. S. Parthia, New York, N. Y.	30.51	774.9	20	—6.7	85	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S. S. Pavonia, N. 48° 04′, W. 35° 11′	29.51	749.5	51	10.5	72	wsw.	.....	.....	7	.....	10	.....	wsw.	10 h'r	10 h'r	h'vy	wsw.	stormy.
S. S. Rhiwindda, N. 50° 06′, W. 31° 30′	.....	.....	44	6.7	.....	w.	.....	.....	9	.....	8	.....	w.	o	o	r'gh	w.	stormy.
S. S. France, N. 43° 50′, W. 55° 34′ †	30.01	762.2	42.8	6.0	.....	w.	.....	.....	6	.....	10	.....	wnw.	snow	snow	h'vy	wnw.	covered.
S. S. Ville de Marseilles, St. Thomas, W.I.*†	30.10	764.5	85	29.4	.....	ne.	.....	.....	4	.....	0	.....	.....	o	o	.....	.....	clear.
S. S. Abyssinia, N. 48° 52′, W. 36° 30′	29.57	751.1	49	9.4	85	w.	.....	.....	9	.....	10	.....	w.	8 h'r	8 h'r	h'vy	w.	snowing.
S. S. Bohemia, Hamburg, Germany*†	30.62	777.7	.....	.....	.....	ne.	.....	.....	2	.....	8	.....	ne.	o	o	.....	.....	foggy.
S. S. Frisia, N. 44° 11′ W. 52° 30′	30.00	762.0	.....	.....	.....	nw.	.....	.....	6	.....	10	.....	w.	snow	snow	r'gh	w.	heavy snow
S. S. Rugia, New York, N. Y.	30.52	775.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S. S. Silesia, Hamburg, Germany	.....	.....	37.0	2.8	.....	nw.	.....	.....	2–3	.....	2?	.....	nw.	o	o	.....	.....	cloudy.?
S. S. Vandalia, Hamburg, Germany	30.77	781.5	32.9	0.5	.....	ne.	.....	.....	3	.....	10	.....	ne.	.....	.....	.....	.....	cloudy.
S. S. Wieland, N. 47° 37′, W. 44° 39′	29.79	756.7	.....	.....	.....	wnw.	.....	.....	6	.....	8	.....	w.	snow	snow	high	nw.	misty.
S. S. Archimedes, S. 19° 18′, W. 38° 57′	29.96	761.0	.....	.....	.....	e.	.....	.....	2	.....	3	.....	ne.	20 mi	nutes	light	ne.	clear.
S. S. Hevelius, N. 2° —′, W. 27° 30′†	30.16	766.1	81	27.2	.....	sse.	.....	.....	4	.....	8?	.....	sse.	o	o	sm'h	.....	clear.?
S. S. Ptolemy, S. 14° 00′, W. 33° 04′	30.01	762.2	80	26.7	78	e.	.....	.....	4	.....	6 ks	.....	.....	0.85	21.6	.....	se.	d clouds.
S. S. Virginian, N. 47° 44′, W. 40° 30′ *	29.63	752.6	34	1.1	.....	w.	.....	.....	9	.....	10	.....	w.	5 h'r	5 h'r	h'vy	cross	snowing.
S. S. Colorado, Galveston, Texas†	30.60	777.2	33	0.6	.....	nne.	.....	.....	3	.....	1	.....	nne.	o	o	.....	.....	clear.
S. S. Rio Grande, Matanzas, Cuba, W. I. †	30.27	768.8	74	23.3	.....	ne.	.....	.....	6	.....	4?	.....	ne.	o	o	.....	.....	cloudy?
S. S. San Marcos, N. 32° 50′, W 78° 50	30.61	777.5	41	5.0	.....	n.	.....	.....	4	.....	7	.....	n.	o	o	sm'h	.....	fine.
S. S. Archimede, Messina, Italy †	29.83	757.7	56	13.3	63	sse.	.....	.....	5	.....	6	.....	sse.	o	o	.....	.....	cloudy.
S. S. Alleghany, Boston, Mass †	30.38	771.6	.....	.....	.....	w.	.....	.....	7	.....	0	.....	.....	o	o	.....	.....	fair.
S. S. Chalmette, N. 30° 25′, W. 80° 25′ †	30.63	778.0	55	12.8	.....	n.	.....	.....	5	.....	8	.....	n.	o	o	mod.	n.	cloudy.
S. S. Lone Star, N. 25° 18′, W. 84° 02′ †	30.31	769.9	66	18.9	.....	ne.	.....	.....	6	.....	10	.....	ne.	12 h'r	12 h'r	h'vy	var.	cloudy.
S. S. New York, N. 25° 35′, W. 84° 30′ †	30.33	770.4	66	18.9	.....	ne.	.....	.....	6	.....	10	.....	ne.	o	o	r'gh	n.	cloudy.
S. S. Denmark, St. Albans, Eng†	30.57	776.5	42	5.6	.....	se.	.....	.....	4	.....	2	.....	se.	o	o	sm'h	.....	clear.
S. S. Egypt, N. 50° 00′, W. 33° 24′ *†	29.42	747.3	.....	.....	.....	wsw.	.....	.....	8	.....	10	.....	w.	3 h'r	3 h'r	hv'y	wsw.	squally.
S. S. Erin, Liverpool, Eng	.....	.....	42	5.6	.....	sse.	.....	.....	8	.....	10	.....	s.	o	o	.....	.....	overcast.
S. S. Helvetia, Liverpool, Eng	.....	.....	40	4.4	.....	ese.	.....	.....	5	.....	8	.....	se.	o	o	.....	.....	cloudy.
S. S. Holland, N. 45° 46′, W. 44° 40′	29.78	756.4	37	2.8	.....	w.	.....	.....	7	.....	10	.....	w.	hail	hail	high	w.	hail & sleet.
S. S. The Queen, N. 49° 30′, W. 11° 48′ *†	30.14	765.5	51	10.6	.....	w.	.....	.....	2	.....	10	.....	calm	3 h'r	3 h'r	mod.	w.	foggy.
S. S. Santiago, N. 38° 43′, W. 73° 40′	30.51	774.9	15	—9.4	?	nw.	.....	.....	6	.....	7	.....	nw.	o	o	r'gh	cross	fine.
S. S. City of Merida, N. 21° 20′, W. 89° 40′ †	30.31	769 9	77.0	25.0	.....	ne.	.....	.....	4	.....	10	.....	ne.	10 h'r	10 h'r	h'vy	n.	cloudy.
S. S. City of Washington, N. 34° 20′, W. 75° 44′ †	30.53	775.4	44	6.7	.....	n.	.....	.....	4	.....	2	.....	n.	o	o	sm'h	.....	fine.
S. S. America, N. 43° 19′, W. 52° 15′ *	30.04	703.0	38.0	3.3	63	w.	.....	.....	6	.....	10	.....	.....	snow	snow	r'gh	wnw.	foggy.
S. S. Braunschweig, S. 32° 11′, W. 50° 37′	29.78	756.4	77 0	25.0	82	nne.	.....	.....	4	.....	3	.....	nne.	o	o	light	nne.	clear.
S. S. Donau, N. 49° 48′, W 6° 29′	30.47	773.9	.....	.....	.....	sse.	.....	.....	4	.....	10	.....	s.	6 h'r	6 h'r	mod.	sse.	cloudy.
S. S. Hohenstaufen, S. 0° 40′, W. 31° 08′	29.91	759.7	80.6	27.0	.....	ese.	.....	.....	3	.....	2	.....	e.	o	o	mod.	e.	fair.
S. S. Hohenzollern, N. 29° 31′ W. 19° 05′	30.37	771.4	.....	.....	.....	se.	.....	.....	5	.....	2	.....	se.	.....	.....	cross	se.	clear.
S. S. Main, N 40° 40′, W. 69° 16′	30.28	769.1	23	—5.0	.....	w.	.....	.....	6	.....	9	.....	w.	rain	rain	mod.	wnw.	fair.
S. S. Neckar, N. 42° 31′, W. 57° 13′	30.13	765.3	32	0.0	100	wnw.	.....	.....	5	.....	10	.....	wnw.	snow	snow	long	wnw.	snowy.
S. S. Salier, N. 48° 48′, W. 41° 05′	29.62	752.3	30	—1.1	.....	w.	.....	.....	9	.....	8	.....	w.	4 h'r	4 h'r	h'vy	w.	fair.
S. S. Strassburg, N. 36° 06′, W. 14° 31′	30.51	774.9	.....	.....	64	se.	.....	.....	1–5	.....	6	.....	se.	o	o	mod.	se.	cloudy.
S. S. Arabic, N. 37° 02′, W 147° 49*†	29.96	761.0	56	13.3	81	nw.	.....	.....	5	.....	2	.....	wsw.	sh'rs	sh'rs	high	wsw.	hazy.
S. S. Belgic, Yokahama, Japan *†	29.93	760.2	47	8.3	62	ne.	.....	.....	4	.....	2	.....	nw.	o	o	mod.	wnw.	clear.
S. S. Coptic, N. 42° 46′, W. 154° 20′	29.37	746.0	48.0	8.9	96	sw.	.....	.....	6	.....	9	.....	sw.	15 h'r	15h'r	high	w.	heavy rain.
S. S. Gaelic, N. 22° 12′, E 114° 13′	30.09	764.3	62	16.7	94	var.	.....	.....	1	.....	.....	.....	.....	o	o	.....	sm'h	clear.
S. S. Oceanic, San Francisco, Cal †	30.29	769.4	47	8.3	92	nw.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. City of Augusta, New York, N. Y†	30.35	770.9	.....	.....	.....	nw.	.....	.....	0	.....	3	.....	.....	o	o	.....	.....	clear.
S. S. Willamette, Seattle, Wash. Ter†	30.23	767.8	38	3.3	90	ssw.	.....	.....	3	.....	9	.....	s.	.....	.....	.....	.....	rainy.
S. S. Oregon, Portland, Oregon †	30.27	768.8	34	1.1	90	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	gloomy.
S. S. Ancon, San Francisco, Cal†	30.31	769.9	42	5.0	74	n.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. City of Chester, San Francisco, Cal*†	30.38	771.6	44	6.7	84	n.	.....	.....	3	.....	2	.....	nw.	.....	.....	.....	.....	clear.
S. S. Dakota, N. 38° 00′, W. 122° 30′	.....	.....	47	8.3	92	calm	.....	.....	0	.....	0	.....	.....	o	o	.....	.....	clear
S. S. G. W. Elder, N. 48° 12′, W. 124° 30′†	30.24	768.1	42	5.6	83	e.	.....	.....	3	.....	6?	.....	.....	o	o	.....	.....	cloudy*
S. S. Orizaba, N. 32° 40′, W. 117° 14′ *†	30.24	768.1	56	13.3	87	calm	.....	.....	0	.....	0	.....	.....	o	o	sm'h	nw.	clear.
S. S. Queen of the Pacific, San Francisco, Cal †	30.41	772.4	.....	.....	.....	nnw.	.....	.....	.....	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. State of California, San Francisco, Cal †	30.42	772.7	39	3.9	91	n.	.....	.....	2	.....	0	.....	.....	o	o	.....	.....	clear.
S. S. Victoria, San Francisco, Cal*†	30.33	770.4	41	5.0	.....	nnw.	.....	.....	3	.....	5	.....	nne.	.....	.....	.....	.....	fair.
S. S. Australia, N. 21° 51′, W. 154° 59′ *†	30.00	762.0	72	22.2	85	e.	.....	.....	3	.....	4	.....	se.	1 h'r	1 h'r	sm'h	nw.	fine.
S. S. City of Pekin, N. 29° 34′, W. 177° 28′ †	29.96	761.0	62	16.7	61	nnw.	.....	.....	5	.....	5	.....	nnw.	.....	.....	large	nw.	fair.
S. S. City of Rio de Janeiro, N. 18° 40′, W. 104° 04′	.....	.....	77	25.0	73	ne.	.....	.....	1	.....	0	.....	.....	o	o	light	w.	clear.
S. S. City of Sydney, Sydney, N. S. W†	30.00	762.0	69	20.6	61	se.	.....	.....	2	.....	5	.....	se.	o	o	sm'h	.....	fair.
S. S. City of Tokei, N. 34° 27′, E. 139° 40′†	30.12	765.0	46	7.8	69	ne.	.....	.....	3	.....	8	.....	se.	o	o	small	ne.	overcast.
S. S. Colon, Aspinwall, Panama†	29.94	760.5	79	26.1	.....	nw.	.....	.....	2	.....	10	.....	ne.	o	o	sm'h	.....	overcast.
S. S. Grenada, Panama Panama†	29.95	760.7	74	23.3	90	wnw.	.....	.....	2	.....	2	.....	nw.	o	o	sm'h	nw.	clear.
S. S. San José, N. 19° 58′ W. 105° 35′*†	30.06	763.5	.....	.....	.....	nnw.	.....	.....	1	5c	.....	nw.	.....	o	o	short	wnw.	.....
S. S. Zealandia, Sydney, N. S. W*	29.85	758.2	70	21.1	90	e.	.....	.....	1	.....	1	.....	ne.	.....	.....	.....	.....	fine.
S. S. Muriel, N. 26° 58′, W. 66° 50′ *	30.31	769.9	75	23.9	.....	ne.	.....	.....	2	.....	0	.....	.....	o	o	mod.	ene.	clear.
S. S. Caracas, Curacoa, W. I †	30.12	765.0	79	26.1	86	ese.	.....	.....	2	.....	2	.....	ese.	2 h'r	2 h'r	sm'h	.....	fair.
S. S. Claudius, Colon, U. S. C.†	30.05	763.3	77 0	25.0	91	wsw.	.....	.....	3	.....	10	.....	n.	2 h'r	2 h'r	long	n.	rainy.
S. S. Valencia, N. 36° 42′, W. 7° 30′ †	30.47	773.9	66	18.9	74	n.	.....	.....	5	.....	9	.....	ne.	3 h'r	3 h'r	h'vy	n.	cloudy.
S. S. Belgenland, N. 46° 09′, W. 46° 28′ †	29.90	759.4	29	—1.7	89	wsw.	.....	.....	8	.....	10	.....	wsw.	6 h'r	6 h'r	h'vy	w.	rain & snow
S. S. Nederland, N. 50° 25′ W. 14° 28′	.....	.....	52	11.1	86	ssw.	.....	.....	5	.....	2	.....	sw.	3 h'r	3 h'r	long	var.	fair.
S. S. Pennland, New York, N. Y	30.37	771.4	5	—15.0	?	wnw.	.....	.....	4	.....	0	.....	.....	o	o	.....	.....	fine.
S. S. Rhynland, N. 43° 50′, W. 59° 00′	30.11	764.8	27	— 2.8	88	nw.	.....	.....	6	.....	7	.....	nw.	.....	.....	long	nw.	snowy.
S. S. Switzerland, N. 50° 36′, W. 16° 30′ †	30.08	764.0	.....	.....	.....	s.	.....	.....	5	.....	10	.....	sw.	2 h'r	2 h'r	cross	wsw.	cloudy.
S. S. Waesland, Antwerp, Belgium	30.74	780.8	34	1.1	.....	e.	.....	.....	3	.....	0	.....	.....	o	o	.....	.....	clear.
S. S. Leerdam, N. 48° 29′, W. 37° 20′ *	29.48	748.8	40	4.4	91	w.	.....	.....	9	.....	10	.....	w.	rain	rain	h'vy	w.	stormy.
S. S. Maas, Rotterdam, Holland	30.73	780.5	28	—2.2	.....	sse.	.....	.....	1	.....	2	.....	n	o	o	.....	.....	.....
S. S. W. A. Scholten, N. 46° 14′, W. 45° 23′	29.93	760.2	30.2	—1.0	89	w.	.....	.....	6	.....	10	.....	w.	snow	snow	high	w.	fair.
S. S. Zaandam, N. 50° 05′, W. 12° 27′	30.17	766 3	59	15.0	.....	s.	.....	.....	3	.....	6 k	.....	w.	2 h'r	2 h'r	3	sw.	fine.
S. S. State of Florida, New York, N. Y	30.35	770.9	16	—8.9	.....	w.	.....	.....	4	.....	10	.....	calm	o	o	.....	.....	overcast.
S. S. State of Georgia, N. 53° 57′, W. 24° 06′†	29.18	741.2	46	7.8	.....	s.	.....	.....	9	.....	10	.....	.....	snow	snow	r'gh	s.	.....
S. S. Baltic, N. 47° 39′, W. 44° 47′ *	29.62	752.3	28	—2.2	.....	wnw.	.....	.....	6	.....	9	.....	wnw.	shr's	shr's	r'gh	wnw.	snowing
S. S. Germanic, N. 41° 30′, W. 54° 58′†	30.09	764.3	46	7.8	.....	w.	.....	.....	4	.....	7	.....	nw.	sh'rs	sh'rs	mod.	nw.	drizzling
S. S. Lepanto, N. 49° 28′, W. 7° 13′*	30.54	775.7	48	8.9	.....	s.	.....	.....	5	.....	9	.....	ssw.	o	o	sli't	sw.	cloudy.
S. S. Marengo, N. 47° 41′, W. 37° 30′ *	29.51	749.5	.....	.....	.....	wsw.	.....	.....	9	.....	10	.....	wsw.	10 h'r	10 h'r	high	wsw.	squally.
S. S. Otranto, N. 49° 51′, W. 44° 09′†	29.51	749.5	24	— 4.4	.....	w.	.....	.....	9	.....	8	.....	w.	.....	.....	long	w.	cloudy.
S. S. Romano, New York, N. Y.	.....	.....	9	—12.8	.....	w.	.....	.....	5	.....	0	.....	.....	o	o	.....	.....	clear.
S. S. Salerno, N. 41° 12′, W. 61° 26′	30.27	768.8	34	1.1	.....	wnw.	.....	.....	8	.....	7	.....	wnw.	3 h'r	3 h'r	r'gh	w.	snowing.
S. S. Catherine Whiting, Philadelphia, Pa †	30.53	775.4	.....	.....	.....	nw.	.....	.....	1	.....	0	.....	.....	o	o	.....	.....	.....
S. S. Norman, N. 39° 59′, W. 75° 08′†	30.41	772.4	.....	.....	.....	wnw.	.....	.....	1	.....	.....	.....	wnw.	o	o	.....	.....	cloudy.
S. S. Saxon, Philadelphia, Pa†	30.59	774.7	10	—12.2	.....	w.	.....	.....	3	.....	1	.....	.....	o	o	.....	.....	clear.
MISCELLANEOUS.																		
Bg. Abbie Clifford. Havana, Cuba, W.I †	30.22	767.6	69	20.6	.....	ne.	.....	.....	4	.....	5	.....	ne.	o	o	.....	.....	fair.
Sch. Abbie H. Gheen, Spring Wood Mills, S. C†	30.61	777.5	26	— 3.3	.....	n.	.....	.....	4	.....	.....	.....	.....	o	o	.....	.....	clear.
Bk. Alcira, N. 28° 32′, W 63° 39′	30.38	771.6	.....	.....	.....	s.	.....	.....	1	.....	2	.....	se.	o	o	long	ese.	clear.
Bk. Alpha, Demerara, British Guiana, S. A*†	29.94	760.5	80	26.7	.....	ene.	.....	.....	4	.....	3	.....	.....	1 h'r	1 h'r	.....	.....	fair.
Schr. Anna A. Holton, Tampico Mexico†	30.35	770.9	65	18.3	.....	nw.	.....	.....	3	.....	2	.....	wnw.	o	o	.....	.....	cloudy.
S. S. Antonio Lopez, Barcelona, Spain	30.05	763.3	73.6	23.1	74	ese.	.....	.....	4	.....	9 k	.....	se.	o	o	mod.	se.	cloudy
Bg. Arthur, S. 26° 22′, W. 45° 27′*†	30.12	765.0	58	14.4	53	calm	.....	.....	0	.....	0	.....	.....	o	o	.....	.....	hazy.
Schr. A. R. Lewis, N. 27° 42′, W. 62° 28′	30.00	762.0	.....	.....	.....	nne.	.....	.....	4	.....	8	.....	var.	o	o	mod.	var.	.....
	.....	.....	72	22.2	.....	calm	.....	.....	0	.....	8	.....	nw.	light	light	long	ene.	showery

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
Miscellaneous.—Continued.																		
Bk. B. F. Watson, Hong Kong, China†	29.91	759.7	68	20.0	.....	ene.	.....	.....	3	.....	0	.....	.....	2 h'r	2 h'r	.....	.....	light fog.
Bg. Belle of the Bay, Galveston, Texas †..	30.51	774.9	.....	.....	.....	ene	.....	.....	5	.....	8?	.....	ne.	0	0	.....	.....	clear?
Bkt. Bonny Doon, N. 27° 33′, W. 28° 20′*†	30.00	762.0	.....	.....	.....	ese.	.....	.....	3	.....	2	.....	e.	4 h'r	4 h'r	r'gh	se.	
Bk Bremen, N. 26° 32′, W. 29° 40′ *	29.95	760.7	.....	.....	.....	se.	.....	.....	6	.....	10	.....	se.	rain	rain	h'vy	var.	raining.
Bk. Champion, Philadelphia, Pa	.....	.....	38	3.3	.....	ne.	.....	.....	4	.....	5	.....	ne.	0	0	.....	.....	fair.
Bk. Commerce, N. 39° 07′, W. 12° 41′†	30.32	770.1	59	15.0	.....	s.	.....	.....	3	.....	2	.....	s.	0	0	mod	sw.	fine.
S. Cornelius, N. 53° 52′, E. 5° 30′ *†	30.78	781.8	36.5	2.5	.....	ssw.	.....	.....	3	.....	4	.....	ne.	0	0	mod.	ne.	fair.
Bkt. C. S. Bushnell, N. 38° 55′, W. 70° 08′	.....	.....	.....	.....	.....	w.	.....	.....	6	.....	8	.....	w.	snow	snow	mod.	w.	squally
S. S. D. J. Foley, Puerto Bello, U. S. C*†	29.95	760.7	78	25.6	86	nw.	.....	.....	2	.....	10	.....	.....	4 h'r	4 h'r	sm'h	.....	raining.
S. E. B. Sutton, N. 24° 00′, W. 34° 30′ †	29.62	752.3	65.5	18.6	97	ene.	.....	.....	6	.....	4	.....	ne.	hv'y	hv'y	cross	var.	fair.
Bk. E. D. Bigelow N. 43° 28′, W. 27° 52′ *†	30.00	762.0	.....	.....	.....	sw.	.....	.....	9	.....	10	.....	sw.	0	0	mod.	sw.	gloomy.
Schr. Edith R. Seward, N. 32° 08′, W. 74° 30′†	30.45	773.4	50	10.0	.....	n.	.....	.....	3	.....	6	.....	ne.	0	0	mod.	ne.	fair.
Bk. Edmund Phinney, S. 27° 54′, W. 39° 12′ †	30.12	765.0	.....	.....	.....	ne.	.....	.....	4	.....	3	.....	.....	0	0	h'vy	ne.	fair.
S. E. J. Spicer, N. 50° 04′, W. 20° 56′	29.55	750 6	55	12.8	100	wsw.	.....	.....	7	.....	10	.....	nw.	12 h'r	12 h'r	long	w.	heavy rain.
Bk. E. L. Pettingill, S. 52° 18′, W. 90° 18′ *†	30.00	761 9	50	10.0	.....	ssw.	.....	.....	7	.....	8	.....	ssw.	rain	rain	.....	sw.	
Bk. Essex, S. 14° 30′, E 46° 30′ *†	29.79	756.7	88	31.1	.....	nw.	.....	.....	5	.....	.....	.....	.....	sq 'lls	sq'lls	.....	nnw	squally.
Schr. F. E. McDonald, Jacksonville, Florida	.....	.....	39	3.9	.....	n.	.....	.....	1	.....	9	.....	.....	8 h'r	8 h'r	.....	.....	fine.
U.S. F. C. S. S. Fish Hawk, Washington, D. C	.....	.....	18	—7.8	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Foscolia, Hartlepool, Eng	.....	.....	.....	.....	.....	wsw.	.....	.....	9	.....	5	.....	.....	0	0	.....	.....	fair.
Bk. Freya, Matanzas, Cuba, W. I	.....	.....	.....	.....	.....	ne.	.....	.....	5	.....	8	.....	ne.	0	0	chop	.....	cloudy.
S. Geo. S etson, S. 22° —′, W. 39° —′ *†	29.98	761.5	81	27.2	87	ene.	.....	.....	5	.....	1	.....	ne.	0	0	r'gh	ene.	clear.
S. Grecian, N. 27° 40′, W. 38° 45′†	30.10	764.5	62	16.7	83	ne.	.....	.....	8	.....	6	.....	ne.	0	0	.....	n	squally.
Bk. Grey Eagle, S. 16° 10′, W. 37° 10′ *†	29.85	758.2	.....	.....	.....	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	fine.
Bk. Gronsvaer, Auckland, N. Z	29.93	760.3	70.0	21.1	.....	ne.	.....	.....	6	.....	10	.....	ne.	12 h'r	12 h'r	.....	.....	rainy.
Bk. Hattie G. McFarland, Demerara, Brit. Guiana†*	30.09	764.3	78	25 6	.....	e.	.....	.....	5	.....	4	.....	e.	0	0	sm'h	.....	
Schr Hattie Weston, N. 10° 40′, W. 61° 30′*†	30.14	765 5	79	26.1	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	high	.....	clear.
Bk. Heinrich & Tonio, N. 32° 04′, W. 29° 08′	.....	.....	67.5	19.7	.....	sse.	.....	.....	3	.....	2	.....	sse.	16 h'r	16 h'r	h'vy	nw.	fair.
Bk. Horace Scudder N. 32° 21′, W. 76° 14′*†	30.53	775 4	52	11.1	.....	nw.	.....	.....	6	.....	9	.....	nw.	.....	.....	.....	nnw.	cloudy.
Schr. Isabel Alberto, New York, N. Y †	30.50	774.7	.....	.....	.....	nw.	.....	.....	2	.....	0	.....	.....	0	0	h'vy	.....	clear.
Schr. James Slater, N. 21° 49′, W. 47° 40′*†	30.18	766.6	74	23.3	.....	ne.	.....	.....	5	.....	5	.....	ne.	0	0	long	ne.	squally.
Bk. Johanne, N. 17° 22′, W. 36° 16′ *†	29.80	756.9	72	22.2	.....	nw.	.....	.....	6	.....	8	.....	wnw.	6 h'r	6 h'r	h'vy	wnw.	hazy.
Schr. John L. Thomas, N. 11° 38′, W. 66° 10′ *†	30.08	764.0	.....	.....	.....	ene.	.....	.....	4	.....	1	.....	e.	0	0	sm'n	nne.	clear.
Bkt. Josephine, S. 32° 20′, W. 19° 04′†	30.17	766 3	78	25.6	73	s.	.....	.....	4	.....	8	.....	s.	.....	.....	long	.....	sprinkling.
S. S. J. W. Wilson, Galveston Bar, Texas*†	30.43	772.9	48	8.9	.....	ne.	.....	.....	3	.....	0	.....	.....	0	0	.....	se.	clear.
Light House Tender Laurel, Tampa Bay, Fla†	30.47	773 9	50	10.0	.....	ne.	.....	.....	5–6	.....	10	.....	ne.	1 h'r	1 h'r	r'gh	.....	cloudy.
Bg. Lilian, N. 18° 33′, W. 63° 40′†	30.24	768.1	80	26.7	.....	ene.	.....	.....	5	.....	6	.....	ene.	½ h'r	½ h'r	r'gh	ene.	squally.
Bk. Louise Adelaide, N. 23° 15′, W. 83° 00′	30.35	770.9	.....	.....	.....	ne.	.....	.....	4	.....	8	.....	ne.	0	0	mod.	var.	
S. S. Malabar, N. 34° 39′, W. 36° 28′*†	30.30	769.6	.....	.....	.....	nne.	.....	.....	2	.....	0	.....	.....	0	0	mod.	nw.	clear
Bg. Mary A. Troop, N. 40° 40′, W. 31° 00′	30.17	766.3	.....	.....	.....	wnw.	.....	.....	3	.....	8	.....	wnw	0	0	.....	nw.	cloudy.
Schr. Minnie A. Bonsall, Mayport, Fla †	30.15	765.8	62	16.7	.....	n.	.....	.....	.....	.....	.....	.....	n.	.....	.....	sm'h	.....	cloudy.
S. M. P. Grace, S. 23° 02′, W. 24° 24′ *	30.06	763.5	80	26.7	.....	e.	.....	.....	5	.....	5	.....	ene.	sh'rs	sh'rs	.....	sw.	squally.
Bg. Myrtle, Barbadoes, W. I *†	29.90	759.4	.....	.....	.....	e.	.....	.....	3	.....	1	.....	e.	4 h'r	4 h'r	sm'h	.....	clear.
Bkt. Norena, Matanzas, Cuba, W. I *†	30.33	770.4	.....	.....	.....	ene.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	fine.
Bg. O. C. Clary, N. 35° 29′, W. 74° 12′ *†	30.45	773.4	68	20.0	90	nnw.	.....	.....	3	.....	4	.....	n.	.....	.....	mod.	n.	
Schr. Ocean Traveler, N. 27° 44′ W. 63° 50′†	30.31	769 9	.....	.....	.....	n	.....	.....	1	.....	1	.....	.....	.....	.....	.....	n.e	clear.
Bk. Ottawa, Alicante Harbor, Spain*	30 09	764.3	61	16.1	.....	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. Paramita, San Francisco, Cal	30.41	772.4	39	3.9	.....	nne.	.....	.....	2	.....	.....	.....	.....	0	0	r'gh	.....	clear.
S. S. Peconic, N. 45° 27′, W. 26° 38′*†	29.92	760.0	54	12.2	.....	ssw.	.....	.....	7	.....	.....	.....	sw.	0	0	mod.	var.	misty.
S. S. Raleigh, Matanzas, Cuba, W. I *	30.15	765.8	74	23.3	.....	ne.	.....	.....	4	.....	5	.....	ne.	0	0	.....	ne.	fair.
Bk. Reindeer, Martinique, W. I*	30.15	765.8	.....	.....	.....	ene.	.....	.....	.....	.....	.....	.....	.....	0	0	high	.....	squally.
S. Rudolph, N. 45° 01′ W. 27° 51′	.....	.....	52.0	11.1	.....	sw.	.....	.....	7	.....	7	.....	sw.	6 h'r	6 h'r	o	w.	rainy.
Bk. Saga, N. 37° 12′, W. 73° 05′	.....	.....	33	0.6	.....	nw.	.....	.....	6	.....	3	.....	nnw.	0	0	.....	var.	clear.
Schr. S. B. Hubbard, Mayport, Fla*†	30.69	779.5	38	3.3	.....	ne.	.....	.....	5	.....	8	.....	ne.	20 h'r	20 h'r	mod	.....	threatening.
Bk. Southern Belle, N. 23° 30′, W. 60° 25′*†	30.21	767.3	72	22.2	.....	ene.	.....	.....	5	.....	5	.....	ene.	sh'rs	sh'rs	long	ne.	fair.
S. Sovereign of the Seas, S. 13° 51′, W. 123° 01′ *†	30.10	764.5	76	24.4	95	e.	.....	.....	3	.....	8	.....	ese.	.....	.....	.....	sw.	cloudy.
Bk. Sunbeam, Lisbon, Portugal *†	30.45	773.4	60	15.6	82	w.	.....	.....	3	.....	5	.....	w.	0	0	5	.....	fair.
S. S. Sunbeam, N. 49° 17′, W. 20° 10′	.....	.....	52	11.1	86	s.	.....	.....	7	.....	10	.....	ssw.	½h'r	½h'r	mod	s.	misty.
S. Titan, N. 7° 13′, W. 29° 49′*†	29.93	760.2	78	25.6	91	e.	.....	.....	2	.....	8	.....	e.	4 h'r	4 h'r	.....	e.	misty.
Bk. Wandering Jew, Montevideo, Uruguay †	29.80	756.9	74	23.3	.....	w.	.....	.....	6	.....	2	.....	w.	0	0	h'vy	.....	clear.
Bk. Winifred, N. 27° 09′, W. 40° 15′ *†	30.20	767.1	.....	.....	.....	ne.	.....	.....	.....	.....	.....	.....	ne.	0	0	.....	ne,	squally.
Schr. Wm. Wiler, N. 26° 27′, W. 66° 00′†	30.31	769.9	.....	.....	.....	se.	.....	.....	1	.....	0	.....	.....	0	0	mod.	se.	fine.
Bk. Xenia, N. 9° 25′, W. 28° 14′ *†	30.00	762.0	79	26.1	.....	ese.	.....	.....	3	.....	1	.....	e.	0	0	sm'h	e.	clear.

International Chart I. January 23, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 24, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer: Corrected for instrumental error and for temperature. Inch.	Barometer: Corrected for instrumental error and for temperature. Mill.	Barometer: Reduced to sea-level. Inch.	Barometer: Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours	.....	.....	30.31	769.9	60.1	15.6	79	n.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair..	Malaterre.
Algiers	.....	.....	30.18	766.5	52.9	11.6	48	nnw.	.....	.....	4	.....	6	.....	.....	Inap.	Inap.	cloudy.....	Thève.
La Calle	.....	.....	30.02	762.4	51.8	11.0	54	n.	.....	.....	6	.....	6	.....	.....	0.807	20.5	cloudy	Fonfréde.
Tunis	.....	.....	29.94	760.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.27	768.8	52.5	11.4	83	w.	.....	.....	3	.....	4	.....	.....	Inap.	Inap.	cloudy.....	Pérès.
Tebessa	.....	.....	30.13	765.2	33.4	0.8	89	wnw.	...	.....	1	.....	4	.....	.....	0.118	3.0	cloudy	Dognon.
Geriville	.....	.....	.....	.....	44.2	6.8	68	nw.	.....	.....	8	.....	3	.....	.....	0	0	pretty fair..	Lonchamp.
Laghouat	.....	.....	30.19	766.9	55.4	13.0	25	se.	.....	.....	6	.....	2	.....	.....	0	0	fair.....	Abraham.
Biskra	.....	.....	30.13	765.4	56.1	13.4	27	nnw.	.....	.....	4	.....	4	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.59	751.6	29.68	753.9	70.8	21.6	79	sw.	10	4.5	.....	.....	8	.....	.....	0	0	dull.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.63	752.6	30.22	767.6	24.3	— 4.3	90	n.	.....	.....	4	.....	8	.....	.....	0.047	1.2	snowing.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.65	753.2	30.48	774.2	23.7	— 4.6	95	nne.	8.7	3.9	.....	10	.....	.....	.....	0.016	0.4	.....	Dr. Wierzbiski.
Eperies	29.43	747.6	30.38	771.7	25.5	— 3.6	78	n.	.....	.....	4	0	4 s	....	s.	0	0	.....	Julius Mikolik.
Gratz	28.97	735.9	30.31	769.9	25.2	— 3.8	84	nw.	.....	.....	4	.....	7	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.74	729.9	30.27	768.9	25.2	— 3.8	66	se.	.....	.....	3	.....	2	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.95	735.4	30.40	772.2	23.0	— 5.0	84	ene.	.....	.....	2	.....	10	.....	.....	0.028	0.7	gloomy.....	The Staff.
Lemberg	29.40	746.7	30.47	773.8	23.0	— 5.0	85	ne.	.....	.....	2	.....	10	.....	.....	0.003	1.6	.....	Dr. T. Stanecki.
Neu Schmecks	26 80	680.6	30.39	771.9	24.3	— 4.3	.....	n.	.....	.....	4	.....	4	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	29.93	760.1	30.04	763.0	30.4	— 0.9	80	ne.	.....	.....	4	.....	4	.....	.....	0	0	.....	I. R.Hydrographic Office.
Szathmar	29.80	756.8	30.26	768.5	32.0	0.0	49	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.96	760.9	30.26	768.5	27.7	— 2.4	75	ne.	.....	.....	2	.....	5	.....	.....	0.055	1.4	.....	Karl Stancel.
Trieste	30.03	762.7	30.13	765.2	30.6	— 0.8	66	ne.	.....	.....	3	.....	3	.....	.....	0	0	.....	Royal Academy.
Vienna	29.64	752.9	30.41	772.5	22.6	— 5.2	63	n.	.....	.....	1	.....	2	.....	.....	0.010	0.4	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.49	749.0	29.59	751.6	40.0	4.4	91	sse.	30	13.4	.....	.....	10	.....	.....	0.525	13.3	raining.....	W. Boswell
Armagh, Observatory	29.23	742.4	29.46	748.3	48.9	9.4	96	ssw.	27	12.1	.....	.....	10	.....	.....	.....	.....	raining.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.81	757.2	39.6	4.2	87	sse.	35	15.6	.....	.....	10	.....	.....	.....	.....	overcast.....	John Hartnup.
Bolton, Sharples	29.35	745.5	29.90	759.4	36.1	2.3	92	s.	12	5.4	.....	.....	10	.....	.....	.....	.....	raining.....	Thomas Mackereth.
Bradford, Yorkshire	29.50	749.3	29.90	759.4	37.7	3.2	94	sw.	.....	.....	3	.....	10	.....	.....	0.42	10.7	raining.....	McLandsborough&Preston.
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	77.0	25.0	79	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds....	Corpl.J.Surgenor, A. H C.
Cardington	.....	.....	.....	.....	36.0	2.2	80	s.	.....	.....	4.0	.....	10	.....	.....	.....	.....	rain & snow	John McLaren.
Chatham, School M. E	30.12	765.0	30.25	768.3	35.2	1.8	80	sw.	.....	.....	4	.....	9	.....	.....	.....	.....	gloomy.....	Corpl. G. A. Pickles.
Falmouth, Observatory	29.81	757.2	30.04	763.0	47.7	8.7	92	s.	.....	.....	0	.....	10	.....	.....	.....	.....	raining.....	The Staff.
Fort Napier, Natal	27.55	699.8	29.77	756.1	83.0	28.3	67	e.	.....	.....	2	.....	8	.....	.....	.....	.....	overcast.....	Corpl. F. Milner, A. H. C.
Galway	29.40	746.7	29.44	747.8	49	9.4	92	sw.	.....	.....	8	.....	10	.....	.....	0.52	13.2	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.25	768.3	30.31	769 9	60.5	15.8	95	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky.....	Sgt. J. Norris, A. H.C.
Glasgow, Observatory	29.31	744.5	29.52	749.8	41.8	5.4	93	ssw.	.....	.....	6	.....	10	.....	.....	.....	.....	raining.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.03	762.7	30.21	767.3	35.9	2.2	75	ssw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast.....	The Staff.
Guernsey	29.93	760 2	30.24	768.1	36.5	2.5	80	s.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast.....	A. Collenette, F. M. S.
Kew, Observatory	30.18	766.6	30.22	767.6	36.6	2.6	73	sw.	20	8.9	.....	.....	10	.....	.....	.....	.....	overcast.....	The Staff.
Leicester, Museum	29.80	756.9	30.07	763.8	35.4	1.9	75	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast.....	J. C. Smith.
Malta, Mediterranean	29.60	751.8	29.68	753.9	52.8	11.6	78	n.	.....	.....	2	.....	6	.....	.....	0.25	6.3	d. clouds	Corpl. Keene, A. H. C
Nassau, Bahamas	30.29	769.4	30.33	770.4	70.5	21.4	82	ne.	.....	.....	5	.....	10	.....	.....	.....	.....	overcast.....	C. S. Duncombe
Oscott, St. Mary's College	29.48	748.8	30.02	762.5	35.4	1.9	90	s.	.....	.....	6	.....	10	.....	.....	.....	.....	threatening.	Rev. Jas. W. Browne
Oxford, Radcliffe Obs'y	29.92	760 0	30.15	765.8	36.0	2.3	81	s.	.....	.....	6	.....	10	.....	.....	.....	.....	squally.....	The Staff.
Plymouth	29.99	761.7	30.06	763.5	45.2	7.3	96	s.	.....	.....	4	.....	10	.....	.....	.....	.....	raining.....	John Merrifield.
Sandwick Manse, Orkneys	29.26	743.2	29.36	745 7	42.2	5.7	92	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	squally.....	Rev. C. Clouston, L.L D.
Scutari Cemetery, Turkey	30.01	762.2	30.08	764.0	43.2	6.2	56	e.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	29.66	753.4	29.95	760.7	36.8	2.7	83	ssw.	.....	.....	4	.....	10	.....	.....	0.52	13.2	overcast.....	W. F. Cooper.
Silloth Rectory	29.59	751.6	29.62	752.3	44.0	6.7	82	sw.	.....	.....	6	.....	10	.....	.....	0.605	15.4	raining.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.85	758.2	36.3	2.4	88	sse.	35	15.6	.....	.....	10	.....	.....	.....	.....	raining.....	Rev. S. J. Perry.
Strathfield Turgiss	29.89	759.2	30.12	765.0	36.6	2.6	76	sw.	.....	.....	3	.....	6	.....	.....	.....	.....	d. clouds....	Rev.C.H.Grimms, F.M.S.
Truro, Royal Institution	29.88	758.9	29.92	760.0	50.0	10.0	86	se.	.....	.....	8	.....	10	.....	.....	.....	.....	raining.....	W. Newcombe.
Valencia, Observatory	29.58	751.3	29.61	752.1	52.5	11.4	79	sw.	52	23.2	.....	.....	10	.....	.....	.....	.....	misty.....	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	— 5.0	—20.6	.....	calm	0	0	.....	0	0	.....	.....	0	0	blue sky.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.14	765.5	30.18	766.6	0	—17.8	94	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	H. J. Cundall, C. E
Chatham, N. B*	30.10	764.5	30.17	766.3	— 8	—22.2	100	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	G. A. Blair
Cornwall	30.15	765.8	30.37	771.4	— 1.0	—18.3	100	w.	.....	.....	3	0	2 s	.....	.....	0	0	blue sky.....	Jas. Smith, M. A.
Dalhousie	30.02	762.5	30.08	764.0	— 4.5	—20.3	.....	w.	.....	.....	1	0	0	.....	.....	0	0	blue sky.....	H. A. Johnson.
Father Point, Quebec*	30.08	764.0	30.11	764.8	2	—16.7	54	w.	38	17.0	.....	0	8 s	.....	w.	0	0	cloudy.....	J. McWilliams.
Fort Garry, Manitoba*	29.51	749.5	30.51	774.9	—27	—32.8	100	n.	11	4.9	.....	0	0	.....	.....	0.15	3.8	clear	James Stewart.
Fredericton	30.20	767.1	30.27	768.8	— 2.9	—19.4	90	w.	12	5.4	.....	0	0	.....	.....	0	0	clear.....	Prof. Harrison, L. L. D.
Granton	29.25	742.9	30.51	774.9	— 4.7	—20.4	93	s.	2	0.9	.....	10 n	.....	.....	.....	0	0	overcast.....	Jas. Grant.
Halifax, N. S*	30.16	766.1	30.31	769.9	3	—16.1	100	w.	4	1.8	.....	k	hz.	w.	.....	0	0	hazy.....	A. Allison.
Hamilton	29.96	761.0	30.41	772.4	4.0	—15.6	87	sw.	.....	.....	1	.....	10 cs	.....	sw.	.....	.....	snowing.....	Geo. Dickson, B. A.
Kingston, Ontario*	30.05	763.3	30.42	772.7	4	—15.6	79	w.	2	0.9	.....	8 ck	2 s	w.	calm	0	0	cloudy.....	A. P. Knight, M. A
Montreal, Quebec*	30.14	765.5	30.37	771.4	0	—17.8	68	se.	16	7.2	.....	0	0	.....	.....	0	0	clear.....	C. H. McLeod, C. E.
Ottawa	30.09	764.3	30.37	771.4	— 1.9	—18.8	92	sw.	.....	.....	1	.....	10 s	.....	.....	0	0	overcast.....	A. McGill, M. A.
Parry Sound, Ontario*	29.51	749.5	30.28	769.1	6	—14.4	83	nw.	6	2.7	.....	10 n	10 n	.....	ne.	0.53	13.5	light snow...	Rev. R. Mosley.
Peterboro	29.57	751.1	30.42	772.7	0.4	—17.6	100	w.	.....	.....	2	.....	10 n	.....	.....	0	0	fine.....	J. Dixon, B. A.
Port Dover, Ontario	29.68	753.9	30.46	773.7	4	—15.6	100	s.	10	4.5	...	.....	10 n	.....	.....	0.25	6.3	threatening.	H. Morgan.
Port Stanley, Ontario	29.73	755.1	30.46	773.7	2	—16.7	91	e.	1	0.4	.....	.....	10 n	.....	sw.	Inap.	Inap.	light snow..	M. Payne.
Quebec, Quebec*	29.90	759.4	30.27	768.8	— 8	—22.2	58	w.	.....	.....	5	0	5 k	.....	.....	0	0	fair.....	Capt. Ashe, R. N
Rockliffe, Ontario*	29.79	756.7	30.29	769.4	—15	—26.1	73	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	W. H. McIntyre.
Saugeen, Ontario*	29.51	749.5	30.31	769.9	0	—14.4	.....	s.	33	14.8	.....	.....	10 s	.....	.....	0.02	0.5	cloudy.....	
St. Andrews, N. B	30.26	768.6	30.31	769.9	5	—15.0	95	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	
St. John, N. B	30.13	765.3	30.31	769.9	2.0	—16.7	100	w.	13	5.8	.....	0	0	.....	.....	0	0	blue sky.....	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.00	762.0	16.5	— 8.6	.....	nw.	.....	.....	6	.....	.....	.....	.....	0	0	.....	The Commandant.
Stratford	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10 s	.....	.....	0	0	overcast.....	C. J. Macgregor, M. A.
Sydney, C. B*	28.99	736.3	30.45	773.4	— 3.1	—19.5	97	s.	3	1.3	.....	.....	.....	.....	.....	0	0	clear.....	T. C. Hill, C. E.
Toronto, Ontario*	30.12	765.0	30.19	766.8	— 1	—18.3	87	sw.	11	4.9	.....	0	0	.....	.....	0	0	clear.....	Magnetic Observatory.
Windsor	30.04	763.0	30.46	773.7	3	—16.1	96	sw.	10	4.5	.....	hz.	0	.....	.....	0	0	hazy.....	Prof. W. H. Butler.
Woodstock	30.15	765.8	30.25	768.3	5.0	—15.0	75	w.	4	1.8	.....	10 n	.....	.....	.....	0	0	overcast.....	Prof. Wolverton, M. A.
Yarmouth, N. S*	29.29	744.0	30.50	774.7	— 1.1	—18.4	88	sw.	7	3.1	.....	.....	10 s	.....	.....	0	0	overcast.....	Lt. F. E. Wilmot, R. A.
	30.27	768.8	30.34	770 6	16	— 8.9	73	nw.	15	0.7	.....	.....	8 k	.....	nw.	0.03	0.8	cloudy.....	
Cape Colony.																			
Cape St. Francis Lt. House	29.64	752.8	29.67	753.6	72.0	22.2	84	e.	18.7	8.4	.....	0	2 k	.....	.....	0	0	light haze...	John Duthie.
Springbok Fontein	27.86	707.6	.....	.....	83	28.3	33	ese.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
CHINESE (*Sub-series*).																			
Sung-shu-chwang	24.54	623.3	.....	.....	19.0	— 7.2	.....	ese.	.....	.....	1	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.31	769.8	30.42	772.6	20.8	— 6.2	74	calm	.....	.....	0	.....	8	.....	.....	0	0		Mission, S. J.
Zi-Ka-Wei, near Shanghai	30.21	767.2	30.23	767.8	39.6	4.2	98	nw.	10.7	4.8	.....	.....	10 n	.....	.....	0.004	0.1	raining	M. Marc Dechevrens, S.J
DANISH.																			
Copenhagen	30.44	773.1	30.48	774.3	29.5	— 1.4	72	se.	16	7	.....	.....	10	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	30.39	772.0	30.41	772.5	27.1	— 2.7	81	sse.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	28.38	720.8	28.42	721.9	21.6	— 5.8	93	s.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	S. Kleinschmidt.
Ivigtut, Greenland	28.45	722.6	28.47	723.1	12.7	—10.7	.....	calm	.....	.....	0	.....	9	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	28.26	717.9	28.31	719.1	23.4	— 4.8	.....	se.	.....	.....	6	.....	4	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.55	725.1	28.59	726.2	27.0	— 2.8	94	calm	.....	.....	0	.....	8	.....	.....	.....	.....	snowing	A. O. Thorlacius.
Thorshavn	29.39	746.4	29.42	747.3	39.9	4.4	79	ssw.	25	11	.....	.....	7	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	30.27	768.9	30.36	771.2	26.1	— 3.3	82	sse.	.....	.....	6	.....	9	.....	.....	.....	.....	.....	Loerer Oesterboi.
Upernavik, Greenland	28.59	726.1	28.63	727.3	— 9.8	—23.2	.....	e.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	
FRENCH.																			
Agen, Normal School	29.69	754.0	30.37	771.5	33.4	0.8	97	calm	.....	.....	0	c	0	.....	.....	0	0	.....	M. Labroue, Director.
Alençon, Normal School	29.78	756.3	30.33	770.3	33.1	0.6	96	sse.	.....	.....	2	.....	k	.....	.....	0	0	.....	M. Nicot, Director.
Arras, Engineer School	30.02	762.4	30.29	769.3	34.7	1.5	.....	.....	.....	.....	4	.....	k	.....	.....	0	0	.....	M. Fénéon, Command't.
Avignon, Normal School	30.06	763.5	30.14	765.5	34.5	1.4	56	nw.	.....	.....	4	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.80	756.8	30.39	771.8	29.8	— 1.2	86	e.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	M. Saillard, Director.
Beauvais, Normal School	30.10	764.4	30.38	771.7	30.2	— 1	77	e.	.....	.....	2	.....	5	.....	nw.	0	0	cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.35	745.4	30.28	769.2	35.2	1.8	81	ne.	.....	.....	1	.....	k	.....	sw.	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	30.03	762.7	30.30	769.7	35.1	1.7	60	sse.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.76	755.8	30.34	770.6	32.0	0	93	nne.	.....	.....	1	c	0	nne.	.....	0	0	.....	M. Malet, Director.
Brest, Naval Observatory	29.98	761.4	30.22	767.6	40.6	4.8	90	sse.	.....	.....	3	.....	10	.....	sse.	0	0	.....	M. de Kermaingant, Dir.
Caen, Normal School	30.19	766.7	30.27	768.8	33.6	0.9	81	n.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.03	762.7	30.30	771.2	32.5	0.3	91	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.87	758.7	30.39	771.9	30.6	— 0.8	37	ese.	.....	.....	3	.....	2	.....	.....	0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28 90	734.0	30.34	770.5	31.3	— 0.4	73	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Allurd, Director.
Cluny, Normal School	29.38	746.3	30.27	768.9	31.1	— 0.5	58	n.	.....	.....	4	.....	.....	.....	n.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.48	748.8	30.40	772.2	27.7	— 2.4	92	e.	.....	.....	3	.....	2 n	e.	e.	0	0	slightly cl'dy	Dr. Goulet, Director.
Gap, Normal School	27.51	698.8	30.19	766.8	28.4	— 2	40	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, du Rhone	28.91	734.3	30.08	764.0	39.6	4.2	47	ne.	.....	.....	1	.....	2	.....	ne.	0.118	3.0	.....	M. Kiun, Director.
Grenoble, Normal School	29.43	747.4	30.24	768.0	31.6	— 0.2	96	n.	.....	.....	1	.....	kn	.....	ne.	0	0	.....	M. Ablard, Director.
Guéret	28.66	727.9	30.33	770.4	29.3	— 1.5	88	calm	.....	.....	0	0	2 cn	.....	.....	c	0	slightly cl'dy	M. Delorme, Dir.
Lamballe, Normal School	29 93	760 2	30.22	767.6	32.0	0	81	se.	.....	.....	2	.....	10	.....	se.	0	0	covered	M. Ollitrault, Director.
Lescar, Normal School	29.70	754 3	30.29	769.3	38.3	3.5	78	nw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.22	767.5	30.32	770 1	41.0	5.0	71	se.	.....	.....	2	.....	10	w.	se.	0.197	5.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.16	740.6	30.28	769 0	29.3	— 1.5	68	nnw.	.....	.....	2	5 ck	0	.....	.....	0	0	cloudy	M. André, Director.
Mans, Normal School	30.07	763.8	30.40	772.2	32.9	0.5	89	sse.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Piboën, Director.
Marseille, Observatory	29.79	756.7	30.07	763.7	42.6	5.9	71	var.	.....	.....	1	.....	1	..	.....	0.016	0.4	.....	M. Stephan, Director.
Montlouis	24.78	629.5	29.63	752.5	32.9	0.5	13	nw.	9.4	4.2	.....	.....	1	w.	.....	0	0	.....	M. Caré for Dr. Finsa.
Montpellier, Normal School	30.06	763.5	30.19	766.8	38.1	3.4	54	nne.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.47	748 6	30.30	769.6	29.5	— 1.4	68	ne.	.....	.....	1	.....	k	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	30.43	772.9	30.35	771.0	34.7	1.5	69	ese.	.....	.....	0–1	.....	10	.....	.....	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	30.06	763.4	30.17	766.3	44.8	7.1	28	nw.	24.2	10.8	.....	.....	1	.....	n.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.16	537.5	.....	.....	14.4	— 9.8	.....	se.	.....	.....	1	.....	5	.....	sw.	0	0	cloudy	M. Vaussenat.
Privas, Normal School	29.08	738.6	30.22	767.5	29.5	— 1.4	.....	n.	.....	.....	1	.....	2	.....	.....	b	0	slightly cl'dy	M. Taillen.
Puy de Dôme Obs'y, Summit	25.15	638.7	.....	.....	15.1	— 9.4	72	ene.	.....	.....	4	.....	0	.....	.....	0.016	0.4	clear	M. Allurd, Director.
Rochefort, Naval Obs'y	30.29	769.3	30.32	770.1	37.0	2.8	54	ese.	.....	.....	2	.....	10	.....	e.	0.35	9.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.03	762.8	30.26	768 5	33.6	0.9	82	e.	.....	.....	1	.....	5	.....	nw.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	28.01	711.4	30.26	768.6	32.0	0	78	nw.	.....	.....	2	.....	10	.....	se.	0	0	.....	M. Seger, Director.
Rouen, Normal School	30.31	769.9	30.36	771.1	32.0	0	78	ne	.....	.....	1	.....	2	.....	se.	0	0	slightly cl'dy	M. Moullot.
Saint Lô	.....	.....	.....	.....	46.4	8	65	w.	.....	.....	1	.....	5	n.	.....	0.063	1.6	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	30.20	767.0	30.36	771.2	32.2	0.1	70	e.	.....	.....	1	.....	1	n.	.....	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.59	751.5	30.32	770.0	33.6	0.9	80	w.	.....	.....	2	.....	1	w.	.....	0	0	clear	M. Baillaud, Director.
Tours	30.13	765.2	30.31	769.8	35.6	2.0	64	ene.	.....	.....	1	1	1	n.	nne.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.82	757.3	30.31	769.8	30.9	— 0.6	58	se.	.....	.....	2	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	30.17	766.4	30.32	770.2	32.4	0.2	96	se.	4.0	1.8	.....	.....	10	.....	.....	0	0	foggy	M. Cartier, Director.
GERMAN.																			
Ansbach	28.89	733.8	30.45	773.5	24.8	— 4.0	62	ne.	.....	.....	4	.....	5	ne.	.....	0.020	0.5	.....	Prof. Jnedt.
Bamberg	29.52	749 8	30.37	771.5	27.7	— 2.4	82	nw.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	30.38	771.6	30.54	775.6	23.0	— 5.0	67	se.	.....	.....	5	.....	10	.....	.....	0	0	.....	Dr. Lensch.
Breslau	30.00	762.0	30.54	775 7	19.9	— 6.7	89	nne.	.....	.....	2	.....	10	.....	.....	0.004	0.1	snowing	Royal University Obs'y.
Carlsruhe	29.95	760.7	30.42	772.7	27.3	— 2.6	68	ne.	.....	.....	2	.....	10	e.	.....	0	0	.....	Albert Senz.
Cassel	29.66	753.4	30.37	771.5	20.2	— 3.2	74	se.	.....	.....	2	.....	2	e.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	30.08	764.1	30.47	774.0	28.6	— 1.9	68	ene.	.....	.....	1	.....	10	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.84	732.4	30.37	771.4	26.1	— 3.6	57	ne.	.....	.....	5	.....	3	ne.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	30.40	772.2	30.49	774.5	28.8	— 1.8	86	se.	.....	.....	3	.....	8	.....	.....	0	0	.....	E. Preller.
Kiel	30.47	774.0	30.49	774.4	30.2	— 1.0	66	sse.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	30.06	763.5	30.51	775 0	24.8	— 4.0	89	ene.	.....	.....	2	.....	10	.....	.....	.....	.....	light snow	H. Leppig, Asst.
Magdeburg	30.32	770.0	30.52	775.3	20.4	— 3.1	82	e.	.....	.....	2	.....	10	ks	ese.	0	0	.....	Weather Observatory.
Memel	30.60	777.1	30.64	778.3	9.5	—12.5	100	se.	.....	.....	2	6 cs	0	.....	.....	.....	.....	.....	Issermann.
Munich	28.45	722.5	30.33	770.3	23.0	— 5.0	76	ne.	.....	.....	2	.....	6	.....	.....	0.098	2.5	light snow	Central Station.
Neufahrwasser	30.66	778.8	30.68	779.2	19.6	— 6.9	81	se.	.....	.....	1	.....	10	.....	.....	0.004	0.1	snowy	A. Lothes.
Neustadt, Palatinate	29.84	758.0	30.38	771.6	28.8	— 1.8	.....	e.	.....	.....	2	.....	8	e.	.....	0	0	.....	Dicknether.
Stuttgart	29.39	746.4	30.34	770 6	26.6	— 3.0	72	ne.	.....	.....	1	.....	5	e.	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	30.50	774.7	30.52	775.3	29.1	— 1.6	100	se.	.....	.....	3	.....	10	.....	.....	0	0	.....	Profs. Brandes & Reimar.
GREEK.																			
Athens	29.39	746.5	29.78	756.5	49.8	9.9	.....	se.	.....	.....	3.0	.....	10	.....	.....	2.232	56.7	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.70	754.5	29.76	755.8	67.8	19.9	85	sw.	7.0	3.1	.....	.....	10	.....	.....	0.33	8.4	overcast	
Deesa	29.26	743.3	29.74	755.4	77.8	25.4	29	sw.	16.0	7.2	.....	.....	5	w.	.....	0	0	d. clouds	
Bombay	29.82	757.3	29.86	758.3	79.6	26.4	60	w.	7.0	3.1	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.93	709.4	29.76	755.9	84.4	29.1	22	wsw.	24.0	10.7	.....	.....	2	.....	w.	0	0	d. clouds	
Belgaum	27.28	693.0	29.80	756.9	79.5	26.4	34	wsw.	7.0	3.1	.....	.....	2	s.	.....	0	0	d. clouds	
Lahore	29.10	739.1	29.89	759.1	53.1	11.7	90	e.	6.0	2.7	.....	.....	10	.....	e.	0.37	9.4	raining	
Roorkee	28.96	735.6	29.90	759.4	59.8	15.4	60	e.	3.0	1.3	.....	.....	10	e.	.....	0.02	0.5	.....	
Agra	29.26	743.2	29.84	757.9	72.2	22.3	51	se.	2.0	0.9	.....	.....	8	.....	se.	0	0	d. clouds	
Nagpur	28.74	730.0	29.78	756.5	79.2	26.2	38	sw.	2.0	0.9	.....	.....	3	w.	.....	0	0	d. clouds	
Jubbulpore	28.46	722.8	29.84	758.0	67.9	19.9	58	se.	6.0	2.7	.....	.....	3	.....	sw.	0.03	0.8	d. clouds	
Lucknow	29.51	749.5	29.90	759.4	67.3	19.6	62	calm	0	0	.....	.....	7	wnw.	.....	0.08	2.0	d. clouds	
Allahabad	29.54	750.4	29.87	758.6	68.4	20.2	64	ne.	2.0	0.9	.....	.....	2	w.	.....	0	0	d. clouds	
Patna	29.73	755.1	29.92	760.0	67.2	19.6	61	nw.	2.9	1.3	.....	.....	2	nw.	nw.	0	0	blue sky	
Hazaribagh	27.85	707.4	29.91	759.6	66.6	19.2	51	nnw.	4.3	1.9	.....	.....	1	.....	.....	0	0	d. clouds	
Cuttack	29.80	756.9	29.88	759.0	80.0	26.7	58	s.	4.0	1.8	.....	.....	2	.....	.....	0	0	d. clouds	
Calcutta, Alipore	29.88	759.0	29.90	759.6	73.8	23.2	59	wsw.	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.83	757.8	29.96	760.9	65.2	18.4	88	nnw.	2.6	1.2	.....	.....	1	wnw.	.....	0	0	d. clouds	
Chittagong	29.85	758.3	29.95	760.6	69.8	21.0	70	w.	2.6	1.2	.....	.....	2	.....	.....	0	0	blue sky	
Sibsagar	29.67	753.5	30.02	762.5	57.9	14.4	91	ne.	2.0	0.9	.....	.....	10	w.	w.	0.50	12.7	overcast	
Zanzibar	29.71	754.5	29.73	755.1	80.2	30.1	63	ene.	10.3	4.6	.....	.....	5	.....	.....	0	0	d. clouds	
Jeypore	28.33	719.6	29.82	757.4	62.7	17.1	81	se.	7.9	3.5	.....	.....	6	.....	se.	0	0	d. clouds	
Bellary	28.37	720.6	.....	.....	86.0	30.0	34	se.	.....	.....	.....	3 c	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.60	751.8	.....	.....	85.8	29.9	46	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.70	754.4	30.13	765.2	35.6	2.0	24	ne.	3.1	1.4	.....	.....	3	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.59	751.5	30.13	765.3	34.2	1.2	65	se.	4.9	2.2	.....	.....	1	.....	.....	0	0	.....	Prof. Schiapparelli.
Padua	30.02	762.5	30.13	765.4	34.0	1.1	52	ene.	9.4	4.2	.....	.....	4	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.17	740.9	30.12	765.0	33.6	0.9	81	e.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.89	759.1	30.08	764.1	40.3	4.6	32	n.	0.9	3.1	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi
Mondovi	28.14	714.7	30.15	765.7	31.1	— 0.5	91	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.98	761.6	30.04	762.9	31.6	— 0.2	85	ne.	3.1	1.4	.....	.....	10	nw.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.78	756.4	30.04	763.1	36.9	2.7	91	ne.	.....	.....	6	.....	10	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.91	759.7	30.00	761 9	37.4	3.0	34	ne.	8.1	3.6	.....	.....	2	ne.	.....	0	0	.....	Prof. P. Monte.
Rome	29.64	752.9	29.82	757.5	39.6	4.2	30	nne.	18.1	8.1	.....	.....	0	.....	.....	0	0	.....	Prof. P. Tachini.
Lecce	29.31	744.5	29.57	751.1	40.5	4.7	86	wnw.	13.6	6.1	.....	.....	10	nw.	.....	0.504	12.8	.....	Prof. C. de Giorgi.
Cosenza	28 78	731.0	29.70	754.3	39.2	4.0	67	wnw.	3.8	1.7	.....	.....	5	nw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.70	754.4	29.90	759.5	43.2	6.2	65	nnw.	.....	.....	4	.....	1	ne.	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.48	748 7	29.73	755.2	45.3	7.4	50	n.	13.0	5.8	.....	.....	9	n.	.....	0.661	16.8	.....	Prof. G. Cacciatore.
Syracuse	29.58	751.2	29.62	752.3	46.9	8.3	65	nne.	8.7	3.9	.....	.....	9	w.	.....	1.339	34.0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.24	742.6	29.78	756.4	38.3	3.5	55	nne.	10.5	4.7	.....	.....	2	ene.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	21.84	554.7	.....	.....	— 1.7	—18.7	60	ne.	.....	.....	2	.....	1	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	21.88	555.8	.....	.....	10.8	—11.8	53	e.	.....	.....	0	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.33	770.3	30.36	771.1	21.0	— 6.1	99	calm	.....	.....	0	.....	10 ck	.....	nw.	0	0	cloudy	Hattori.
Awomori	30.32	770.1	30.36	771.1	24.2	— 4.3	83	ese.	3.1	1.3	.....	.....	10s;ks	.....	.....	0	0	overcast	K. Ogawa.
Hakodate	30.38	771.6	30.39	771.9	18.8	— 7.3	86	nnw.	4.8	2.1	.....	.....	10	.....	.....	0	0	overcast	
Hamamatsu	30.17	766.3	30.20	767.0	39.7	4.3	91	calm	.....	.....	0	.....	10 n	.....	.....	0.449	11.4	raining	
Kagoshima	30.08	763.9	30.09	764.2	53.3	11.8	58	calm	.....	.....	0	2 cs	7 s	.....	w.	0.010	0.4	overcast	G. Miyanohaza.
Kioto	30.00	761.9	30.18	766.6	39.5	4.2	96	ne.	.....	.....	.....	.....	10 n	.....	.....	0.328	8.3	light rain	M. Tojima.
Kochi	30.06	764.0	30.10	764.5	48.1	8.9	100	ne.	4.3	2.0	.....	.....	10	.....	.....	0.146	3.7	overcast	K. Kusunose.
Miyaska	30.09	764.3	30.12	765.0	54.9	12.7	89	calm	.....	.....	0	.....	10 s	.....	n.	0.012	0.3	covered	K. Masusaki.
Nagasaki, I. M. Obs'y	29.89	759.2	30.10	764.5	47.3	8.5	95	nne.	4.5	2.0	.....	.....	10 s	.....	n.	0.030	0.8	overcast	S. Takehayashi.
Niigata	30.25	768.3	30.29	769.3	30.9	— 0.6	67	e.	1.0	0.4	.....	.....	10ck;s	.....	sw.	0	0	cloudy	M. Moritta.
Nobiru	30.32	770.2	30.34	770.0	23.4	— 4.8	100	ne.	4.0	2.1	.....	0	0	.....	.....	0	0	clear	H. Midzushima.
Numazu	30.24	768.1	30.27	768.9	30.4	2.4	81	ese.	.....	.....	4	.....	10 n	.....	.....	0	0	cloudy	R. Kaneda.
Sakai	30.19	766.8	30.20	767.1	42.9	6.1	86	e.	.....	.....	4	.....	10 ks;s	.....	e.	0.043	1.1	cloudy	K. Yamawchi.
Supporo	.....	.....	.....	.....	8.3	—13.2	96	sw.	0.8	0.4	.....	.....	10	.....	sw.	0.150	3.8	covered	
Tokei Obs'y, Yeddo	30.24	768.2	30.33	770.3	32.9	0.5	92	nnw.	5.4	2.4	.....	.....	10 s	.....	.....	1.164	29.6	cloudy	The Staff.
Wakayama	30.10	764.6	30.16	766.0	41.0	5.0	95	nne.	5.0	2.2	.....	.....	10 n	.....	.....	0.500	12.7	raining	Y. Kuwamnea.
Osaka	30.15	765.8	30.17	766.2	40.1	4.5	95	nne.	10.2	4.6	.....	.....	10 n	.....	.....	0.235	5.9	light rain	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.63	752.6	29.82	757.4	79.0	26.1	84	ene.	11.0	4.9	.....	.....	10n;ks	.....	ne.	0	0	overcast	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	55.5	13.1	89	nw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. Diaz Pena.
Guanajuato	23.81	604.8	30.03	762.8	46.9	8.3	94	wsw.	inap.	inap.	.....	1 cs	0	.....	.....	0	0	clear	Prof. Vicente Fernandez.
Leon	24.49	622.0	30.39	771.9	44.1	6.7	89	sw.	.....	.....	1	0	8 ks	.....	.....	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.86	758.4	30.12	765.1	62.6	16.7	88	nnw.	5.3	2.3	.....	2 cs	0	sw.	.....	0	0	foggy	F. Quijano, C. E.
Mexico, Central Obs'y	23.24	590.3	30.48	774.2	43.2	6.2	85	calm	0	0	.....	4 c	5 ks	.....	.....	0	0	cloudy	The Staff.
Morelia	24.26	616.3	30.13	765.4	45.1	7.3	67	n.	.....	.....	2	1 c	1 k	s.	se.	0	0	clear	M. Tena, M. D.
Pabellon	24.07	611.3	30.26	768.5	44.1	6.7	81	n.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Puebla, Catholic Institute	23.48	596.4	30.37	771.4	44.6	7.0	51	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
Zacatecas	22.67	575.8	30.46	773.7	39.9	4.4	84	e.	5.1	2.2	.....	10 c	0	sw.	.....	inap.	inap.	covered	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.38	771.6	30.38	771.6	32.2	0.1	.....	sse.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	30.37	771.4	30.43	772.8	30.9	— 0.6	.....	s.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.39	772.0	30.39	772.0	31.5	— 0.3	85	sse.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	30.36	771.2	30.41	772.4	31.5	— 0.3	73	sse.	.....	.....	3	.....	2	.....	.....	0	0	lightly cl'd'y	H. van der Brink.
Sub-series.																			
Batavia, Java	29.80	757.0	.....	.....	74.5	23.6	95	wsw.	0	0	.....	.....	10	.....	.....	0.04	1.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.95	760.6	30.01	762.2	37.0	2.8	37	s.	31	14	.....	.....	5	.....	.....	0	0	.....	
Brono	29.69	754.1	29.73	755.1	41.0	5.0	36	calm	0	0	.....	.....	10	.....	.....	0	0	.....	
Christiania	30.23	767.8	30.39	771.9	23.4	— 4.8	84	w.	11	5	.....	.....	10	.....	.....	0	0	.....	
Gjæsvær	29.34	745.1	29.30	745.7	40.3	4.6	.....	w.	.....	.....	8	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.67	753.5	29.71	754.7	37.9	3.3	85	sw.	.....	.....	7	.....	10	.....	.....	0.150	3.8	rain & fog	
PORTUGUESE.																			
Angra, Azores	30.35	770.8	30.50	774.8	60.8	16.0	87	wnw.	4.9	2.2	.....	.....	2	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.25	742.9	30.26	768.5	58.1	14.5	60	wsw.	4.9	2.2	.....	.....	8	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.44	773.1	30.53	775.4	64.9	18.3	57	sw.	5.0	2.5	.....	.....	0	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.00	762.1	30.37	771.3	57.7	14.3	82	nnw.	9.4	4.2	.....	.....	10	.....	.....	0.035	0.9	.....	The Staff.
Ponta Delgada, Azores	30.46	773.6	30.53	775.4	62.6	17.0	96	calm	0	0	.....	.....	10	.....	.....	0.075	1.9	light rain	
Saint Paul de Loando	29.71	754.5	29.91	759.6	81.7	27.6	85	w.	1.8	0.8	.....	.....	2	sse.	.....	0	0	.....	.
Serra da Estrella	25.47	646.8	30.34	770.6	38.3	3.5	93	nw.	11.2	5.0	.....	.....	10	.....	.....	0.039	1.0	.....	
RUSSIAN.																			
Akmolinski	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Major K. Lasarew.
Archangel	29.76	756.0	29.78	756.5	15.4	— 9.2	88	sw.	9	4	.....	.....	10	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashurada	30.32	770.2	30.23	767.8	43.9	6.6	77	ne.	9	4	.....	0	1 ks	.....	.....	0	0	heavy cl'ds.	Capt. Wisganow.
Astrakhan	30.39	771.9	30.31	769.8	23.4	— 4.8	88	nnw.	7	3	.....	.....	10	.....	.....	0	0	.....	
Baku	30.28	769.0	30.23	767.8	38.5	3.6	87	nw.	13	6	.....	0	1 k	.....	.....	0	0	.....	
Barnaul	29.57	751.0	30.12	765.0	4.6	—15.2	81	sw.	13	6	.....	.....	10	.....	.....	0.165	4.2	.....	Meteorological Obs'y.
Bielosersk	29.76	756.0	30.28	769.0	10.4	—12.0	65	sw.	11	5	.....	4 c	0	.....	.....	0	0	.....	
Dorpat	30.33	770.3	30.60	777.2	6.1	—14.4	92	sw.	4	2	.....	0	0	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.09	738.8	30.15	765.9	0.7	—17.4	42	w.	31	14	.....	9 c;ck	0	.....	.....	0	0	light clouds	Meteorological Obs'y.
Elisawetgrad	29.97	761.2	30.45	773.5	22.3	— 5.4	93	ne.	7	3	.....	.....	10 n	.....	.....	0.004	0.1	.....	
Irkutsk	28.72	729.6	30.09	779.4	—26.0	—32.2	83	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Kasan	30.05	763.2	30.35	771.0	— 6.9	—21.6	78	ssw.	2	1	.....	.....	0	.....	.....	0	0	.....	Observatory.
Kem	29.78	756.4	29.83	757.7	18.9	— 7.3	87	w.	31	14	.....	0	2 s	.....	.....	0	0	.....	
Kertch	30.35	771.0	30.37	771.5	23.4	— 4.8	95	calm	0	0	.....	.....	10 n	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.82	757.5	30.52	775.1	18.7	— 7.4	100	ne.	7	3	.....	.....	10ks;n	.....	.....	0	0	.....	Observatory.
Koslov	29.92	760.0	30.50	774.7	14.2	— 9.9	91	nne.	9	4	.....	.....	10 s	.....	.....	0	0	.....	
Libau	30.66	777.1	30.62	777.7	14.9	— 9.5	72	sse.	4	2	.....	.....	0	.....	.....	0	0	.....	E. Quass.
Lugan	30.15	765.9	30.36	771.1	16.7	— 8.5	79	ne.	13	6	.....	.....	9	.....	.....	0.028	0.7	light clouds	Meteorological Obs'y.
Moscow	30.00	762.1	30.55	775.9	5.9	—14.5	84	w.	0.7	3.0	.....	0	7 ks	.....	.....	0.004	0.1	.....	
Nikolaiev	30.36	771.1	30.43	773.0	24.4	— 4.2	98	calm	0	0	.....	.....	10	.....	.....	0	0	foggy	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.26	768.7	30.35	770 9	—14.8	—26.0	70	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Iwanow.
Pekin, China	30.26	768 5	30.40	772.1	22.6	— 5.2	75	sw.	4	2	.....	0	8 n	.....	.....	0	0	.....	Physicla Observatory.
Petrozavodsk	29.90	759.5	30.12	765.0	15.1	— 9.4	66	w.	9	4	.....	0	1 8	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	30.04	763.0	30.58	776.7	21.0	— 6.1	85	ene.	7	3	.....	.....	10 s	.....	.....	0	0	.....	
Poti	30.23	767.8	30.25	768.3	45.7	7.6	77	calm	0	0	.....	.....	10 n	.....	.....	0	0	.....	
St. Petersburg	30.41	772.5	30.43	772.9	10.4	—12.0	48	nw.	11	5	.....	1 c	0	.....	.....	.....	.....	.....	Central Physical Obs'y.
Samarkand	27.53	699.2	30.11	764.9	30.0	— 1.1	94	w.	7.8	3.5	.....	.....	10 n	.....	.....	.....	.....	snowing	
Sevastopol	30.10	764.6	30.27	768.8	37.9	3.3	52	ne.	7	3	.....	1 cs	0	.....	.....	0	0	.....	
Semipalatinsk	29.78	756.3	30.51	774.9	— 0.1	—17.8	73	s.	4	2	.....	.....	9	.....	.....	0	0	.....	Major Lasarew.
Starol Bykhov	30.14	765.5	30.04	778.3	16.9	— 8.4	85	ene.	4	2	.....	.....	10	.....	.....	0.031	0.8	.....	
Tiflis	28.77	730.8	30.23	767.9	42.3	5.7	45	nw.	4	2	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Tomsk	29.57	751.1	29.87	758.8	7.0	—13.9	88	s.	9	4	.....	.....	10	.....	.....	.....	.....	light snow	
Viatka	29.26	743.1	29 95	760.8	1.0	—17.2	.....	w.	2	1	.....	.....	9	.....	.....	0	0	.....	
Warsaw	30.12	765.1	30.58	776.8	21.6	— 5.8	87	e.	9	4	.....	.....	10	.....	.....	0	0	heavy cl'ds	Astronomical Obs'y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Wilna	30.20	767.0	30.66	778.7	17.8	— 7.9	83	calm	0	0			10			0	0	heavy clouds	Berg, Assistant.
Yeniseisk	29.77	756.1	30.09	764.3	— 5.4	—20.8	86	e.	9	4			10			0.173	4.4	light clouds	M. O. Marks.
Scottish.																			
Monach Lt			29.27	743.4	44	6.7	92	w.			7		10			0.5	13.	showery	J. Youngclauss.
North Unst			29.32	744.7				s.			9		10			blank	blank		Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.98	761.4	30.08	764.1	49.6	9.8	66	sw.	4.0	1.8		0	2 k			0	0		Antonio Reve, Director.
Bilbao, Met. Obs'y	30.27	768.8	30.33	770.3	50.0	10.0	67	se.	0.9	0.4		2	7	ne.		0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.27	692.6	30.34	770.6	42.8	6.0	61	n.	1.1	0.5			2			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.97	710.5	30.26	768.5	48.2	9.0	62	sw.	2.5	1.1		6	0			0	0	light clouds	The Staff.
Murcia, Met. Obs'y	30.00	762.0	30.16	766.0	61.5	16.4	74	wsw.	2.9	1.3		2	6	ese.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.45	747.9	30.32	770.2	39.2	4.0	80	s.	6.5	2.9		6 n	4 n	n.	n.	0.031	0.8	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.34	745.1	30.25	768.3	53.2	11.8	82	calm	0	0			10			0.031	0.8	covered	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.93	760.1	29.98	761.5	77.0	25.0	66	e.	9.8	4.4		0	1 k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.24	768.0	30.34	770.6	56.5	13.6	74	wnw.	10.8	4.8			10		nw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I.	30.03	762.8	30.12	765.1	76.6	24.8	78	e.	11.6	5.2		2 k	8 kn	e.	e.	0.205	5.2	overcast	Manuel Maese.
Swedish.																			
Haparanda	29.88	758.9	29.92	759.9	20.5	— 6.4	95	sw.			4		3			0	0		
Umea	30.02	762.6	30.08	763.9	12.7	—10.7	83	sw.			2		5			0	0		
Hernosand	30.07	763.8	30.12	765.1	3.2	—16.0	95	calm			0		2			0	0		
Stockholm	30.29	769.4	30.47	773.9	15.8	— 9.0	94	sw.			2		0			0	0		
Wisby	30.49	774.5	30.55	776.0	27.0	— 2.8	83	sw.			4		0			0	0		
Sub-series.																			
Upsala	30.33	770.4	30.42	772.6	12.9	—10.6	99	sw.	11.6	5.2			10			0	0		S. G. Fineman.
Swiss.																			
Geneva	28.76	730.4	30.26	768.7	27.7	— 2.4	71	nne.			6		7			0	0	cloudy	The Observatory.
Turkish.																			
Constantinople			30.12	765.0	42.3	5.7	54	ene.	38	17 0			2		sw.	0	0		The Observatory.
Valona			29.56	750.8	38.8	3.8		ne.			2		10					snowing	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.10	764.4	63.3	17.4	60	e.			1		8 n		sw.	0.215	5.5		Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.76	679.7			20	— 6.7	90	w.			3		10 n					snowing	Fred L. Kingsbury.
United States.																			
Albany, New York	30.51	774.9	30.60	777.2	7	—13.9	76	sw.	6	2.7		0	4 s			0	0	fair	J. O. Barnes.
Alpena, Michigan	29.48	748.8	30.19	766.8	0	—17.8	68	s.	10	4.5			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.22	640.6	30.34	770.6	18	— 7.8	73	ne.	4	1.8		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.28	692.9	30.32	770.1	— 6	—21.1	65	ne.	31	13.9			10 n		nw.	0.08	2.0	light snow	B. O. Lenoir.
Atlanta, Georgia	29.34	745.2	30.57	776.5	34.0	1.1	52	w.	5	2.2		0	0			0	0	clear	H. C. Smith.
Atlantic City, New Jersey	30.62	777.7	30.63	778.0	10	—12.2	38	n.	16	7.2		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.40	772.1	30.60	777.2	31	— 0.6	57	calm	0	0		0	0			0	0	clear	John Healy.
Baltimore, Maryland	30.62	777.7	30.67	779.0	17	— 8.3	67	nw.	3	1.3		1 ck	0	w.		0	0	clear	Geo W Felger.
Barnegat, New Jersey	30.62	777.7	30.64	778.2	9.0	—12.8	35	n.	16	7.2		0	0			lnap.	lnap.	clear	G. A. Hill.
Behring Id., Behring Sea	29.44	747.8	29 46	748.3	25.1	— 3.8		n.	10	4.5		0	3 k		n.	lnap.	lnap.	clear	Leonard Steineger.
Bennett, Fort, Dakota	28.64	727.4	30.38	771.6	4	—15.6	87	ne.	13	5.8			10 n		ne.	lnap.	lnap.	light snow	A. Pritchard.
Benton, Fort, Montana	27.25	692.1	30.23	767.8	— 1	—18.3	71	se.	2	0.9		0	0			0.10	2.5	clear	S. Wheaton.
Billings, Montana	26.75	679.4			13	—10.6	83	e.	24	10.7			10 s			0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.42	721.9	30.41	772.4	— 9	—22.8	100	n.	14	6.3			10 s			0.03	0.8	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.57	776.5	30.60	777.2	13	—10.6	61	nw.	5	2.2		1 cs	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.28	692.9	30.21	767.3	11	—11.7	91	n.	1	0.4			10 s			0	0	cloudy	B. E. Light.
Boston, Massachusetts	30.37	771.4	30.54	775.7	8.0	—13.3	43	w.	13	5.8		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	30.28	769.1	30.33	770.4	49.0	9.4	93	ne.	4	1.8		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.67	753.6	30.47	773.9	1.5	—16.9	88	s.	13	5.8			10 s		sw.	0.04	1.0	cloudy	W. Finn.
Buford, Fort, Dakota																			F. A. Mellen.
Burlington, Vermont	30.12	765.0	30.43	772.9	3.3	—15.9	71	s.	13	5.8			10 s		w.	0	0	cloudy	G. O. Schaeffer.
Cairo, Illinois	29.96	761.0	30.38	771.6	31.0	— 0.6	78	s.	6	2.7		7 cs	0			0	0	fair	W. H. Ray.
Cape Henry, Virginia	30.60	777.2	30.62	777.7	25	— 3.9	73	ne.	23	10.3		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.63	778.0	30.66	778.7	14.0	—10.0	66	ne.	6	2.7		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California																			J. J. McLean.
Cedar Keys, Florida	30.49	774.4	30.51	774.9	43	6.1	74	ne.	10	4.5		2 ck	0			0.09	2.3		F. W. Mixer.
Champaign, Illinois	29.37	746.0	30.24	768.1	18.0	— 7.8	67	s.	6	2.7			10 s		sw.	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.52	775.2	30.58	776.7	39	3.9	82	calm	0	0		0	0			0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.63	752.6	30.52	775.2	28.0	— 2.2	77	ne.	4	1.8		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.68	753.9	30.54	775.7	29.0	— 1.7	74	w.	2	0.9		0	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.02	610.1	30.27	768.8	38.8	3.8	30	w.	8	3.6		10 c	0			0	0	cloudy	E. McGovern.
Chicago, Illinois	29.50	749.3	30.25	768.3	10.5	—11.9	45	se.	6	2.7			10 n			0.04	1.0	light snow	J. Mitchell.
Chincoteague, Virginia	30.64	778.2	30.66	778.7	16	— 8.9	74	ne.	8	3.6		hz.	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.74	755.4	30.43	772.9	17	— 8.3	83	e.	6	2.7		0	5 s		e.	lnap.	lnap.	fair	R. B. Watkins.
Cleveland, Ohio	29.65	753.1	30.43	772.9	5.5	—14.7	76	s.	8	3.6			10 s			0	0	threatening	J. B. Newlin.
Coleman City, Texas	28.42	721.9	30.30	769.6	33	0.9	81	sw.	10	4.5		c	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.53	750.0	30.43	772.9	13	—10.6	61	se.	10	4.5		0	4 s			lnap.	lnap.	fair	D. Cuthbertson.
Concho, Fort, Texas	28.28	718.3	30.30	769.6	36.2	2.3	82	sw.	6	2.7		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.50	749.3	30.21	767.3	12	—11.1	42	se.	4	1.8		7 cs	hz.			0	0	fair	W. B. Lamar.
Davis, Fort, Texas	25.36	644.1	30.34	770.6	34	1.1	74	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.41	721.6	30.21	767.3	36	2.2	82	sw.	12	5.4		9 k	0	sw.		0.28	7.1	cloudy	D. Moore.
Deadwood, Dakota	25.30	642.6	30.24	768.1	25	— 3.9	88	sw.	3	1.3		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.63	778.0	30.65	778.5	14	—10.0	80	n.	12	5.4			9 ks		n.	lnap.	lnap.	cloudy	T. S. Townsend.
Denison, Texas	29.44	747.8	30.28	769.1	45.0	7.2	83	s.	18	8.0			10 s			0	0	cloudy	J. W. Byram.
Denver, Colorado	24.74	628.4	30.26	768.6	39.0	3.9	52	se.	2	0.9			10 s		w.	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.24	742.7	30.21	767.3	5	—15.0	76	se.	1	0.4		0	fg.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.62	752.3	30.38	771.0	11.0	—11.7	80	sw.	10	4.5			10 n			0.02	0.5	light snow	C. F. R. Wappenhans.
Dodge City, Kansas	27.51	698.7	30.26	768.6	20	— 6.7	73	sw.	4	1.8		0	0			0	0	clear	V. P. Temple.
Dubuque, Iowa	29.46	748.3	30.23	767.8	0	—17.8	39	calm	0	0		2 cs	0			0.23	5.8	clear	J. Harvey Smith.
Duluth, Minnesota	29.36	745.7	30.17	766.3	—14	—25.6	100	w.	1	0.4			10 s		w.	0.05	1.3	cloudy	N. B. Conger.
Eagle Pass, Texas	29.55	750.6	30.39	771.9	34.0	1.1	64	calm	0	0		7 cs	0	sw.		0	0	fair	F. Belford.
Eagle Rock, Idaho	25.44	646.2	30.40	772.1	8	—13.3	80	n.	7	3.1		5 cs	0	n.		0	0	fair	J. M. Clifford.
Eastport, Maine	30.27	768.8	30.34	770.6	4.0	—15.6	72	w.	13	5.8		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.32	693.9	30.26	768.6	29	— 1.7	59	nw.	12	5.4		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.53	673.8	30.41	772.4	25.8	— 3.4	70	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.69	754.1	30.46	773.7	4	—15.6	72	s.	6	2.7			10 s			0.04	1.0	cloudy	Peter Wood.
Escanaba, Michigan	29.40	746.7	30.12	765.0	— 5.0	—20.6	87	sw.	7	3.1			10 s			0.01	0.3	cloudy	George Heathcote.
Fredericksburg, Texas	28.55	725.2	30.37	771.4	48	8.9	100	s.	10	4.5			10 s			0	0	cloudy	Frank Halwegler.
Galveston, Texas	30.35	770.9	30.40	772.1	52	11.1	86	se.	8	3.6		0	hz.			0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.48	748.8	30.19	766.8	8.0	—13.3	76	se.	7	3.1			10 n			0.20	5.1	light snow	J. E. Mueller.
Grant, Fort, Arizona	25 43	645.9	30.33	770.4	31.5	— 0.3	73	n.	5	2.2		0	0		se.	0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.57	776.5	30.59	777.0	35	1.7	69	ne.	15	6.7		hz.	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.73	653.5	30.16	766.1	33	0.6	81	sw.	7	3.1		4 cs	6 s	sw.	calm	0.01	0.3	cloudy	N. C. Smith.
Henrietta, Texas																			J. P. Sherry.
Huron, Dakota	28.81	731.8	30.35	770.9	4	—15.6	47	nw.	17	7.6			10 s			lnap.	lnap.	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.43	747.5	30.27	768.8	19	— 7.2	84	s.	8	3.6			10 s		s.	0	0	cloudy	J. F. Jirdinston.
Indianola, Texas	30.34	770 6	30.37	771.4	49.0	9.4	93	se.	8	3.6		3 cs	0	w.		0	0	clear	I. A. Reed.
Jacksboro, Texas	29.09	738.9	30.33	770.4	38	3.3	45	se.	10	4.5		0	0			0	0	clear	D. J. Carr.
Jacksonville, Florida	30.51	774.9	30.56	776.2	37	2.8	82	calm	0	0		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27 63	701.8	30.32	770.1	1	—17.2	72	n.	16	7.2			10 n		n.	lnap.	lnap.	light snow	A. Schneider.
Keokuk, Iowa	29.50	749.3	30.20	767.1	9.0	—12.8	76	se.	1	0.4		0	0			0	0	clear	F. Z. Gosewisch.

STATIONS	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Key West, Florida	30.26	768.6	30.28	769.1	68.0	20.0	90	ne.	16	7.2			9 s		ne.	0	0	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.60	777.2	30.62	777.7	33	0.6	88	ne.	24	10.7		0	0			0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.45	748.0	30.53	775.4	23.2	—4.9	95	ne.	3	1.3		0	sk.			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.27	743.4	30.11	764.8	2	—16.7	72	s.	11	4.9			10 n			0.04	1.0	light snow	S. C. Emery
Leavenworth, Kansas	29.31	744.5	30.27	768.8	12	—11.1	91	calm	0	0		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.36	745.7	30.22	767.6	31.5	— 0.3	82	w.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	30.04	763.0	30.37	771.4	35	1.7	69	s.	2	0.9		3 ck	0	sw.		0	0	clear	W. U. Simons.
Los Angeles, California	29.86	758.4	30.26	768.6	47	8.3	48	ne.	10	4.5		5 c	0	w.		0	0	fair	T. S. Collins.
Louisville, Kentucky	29.78	756.4	30.37	771.4	20.5	— 6.4	70	e.	4	1.8		0	3 s			0.01	0.3	clear	L. M Dey.
Lynchburg, Virginia	29.85	758.2	30.57	776.5	21.5	— 5.8	72	n.	1	0.4		0	0			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.42	747.3	30.12	765.0	8.0	—13.3	76	s.	5	2.2			10 n		sw.	0.08	2.0	light snow	F. R. Day.
Macon, Fort, North Carolina	30.57	776.5	30.58	776.7	32.0	0.0	78	ne.	12	5.4		hz.	0			0	0	clear	William Daly.
Madison, Wisconsin	29.04	737.6	30.14	765.5	3	—16.1	72	s.	12	5.4		0	0			0.03	0.8	clear	C. A. Shaw.
Maginnis, Fort, Montana	28.51	647.9	30.06	763.5	13	—10.6	49	w.	4	1.8		10 k	0	w.		0.20	5.1	cloudy	F. Burke.
McKavett, Fort, Texas	28.07	713.0	30.46	773.7	30	2.2	72	s.	9	4.0			10 ks		s.	0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.30	744.2	30.08	764.0	1	—17.2	72	sw.	5	2.2			10 n			0.07	1.8	light snow	J. Gilligan.
Memphis, Tennessee	30.06	763.5	30.42	772.7	39	3.9	43	s.	12	5.4		0	0			0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.40	746.7	30.20	767.1	5	—15.0	70	sw.	8	3.6			10 n			0.13	3.3	light snow	W. Line
Missoula, Fort, Montana	26.60	677.9	30.15	765 8	28	— 2.2	77	ne.	3	1.3			10 n			0.02	0.5	light snow	J. H. Young.
Mobile, Alabama	30.48	774.2	30.52	775.2	33.5	0.8	78	n.	4	1.8		0	0			0	0	clear	C. A. Read.
Montgomery, Alabama	30.29	769.4	30.53	775.4	31.5	— 0.3	76	se.	2	0.9		0	0			0	0	clear	J. B. McLaughlin
Moorhead, Minnesota	29.24	742.7	30.35	770.9	—20	—28.9	100	n.	32	14.3			10 s		n.	0.16	4.1	cloudy	H. Bessant.
Morgantown, W. Virginia	29.45	748.0	30.51	774.9	12.0	—11.1	70	calm	0	0		hz	8 s			0.02	0.5	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.30	591.8	29.93	760.2	—20.0	—28.9	100	nw.	80	35.8			fg.		nw.	0	0	dense fog	S. W. Beall.
Nashville, Tennessee	29.83	757.7	30.44	773.2	27.0	— 2.8	82	e.	2	0.9		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.48	774.2	30.60	777.2	3	—16.1	72	w.	4	1.8		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.59	777.0	30.64	778.2	7	—13.9	70	nw.	6	2.7		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.43	772.9	30.49	774.4	46.0	7.8	65	e.	5	2.2		0	0			0	0	clear	L. Dunne.
Newport, Rhode Island	30.52	775.2	30.57	776.5	9.0	—12.8	55	nw.	13	5.8		0	0			0	0	clear	W. McGillivray.
New York, New York	30.45	773.4	30.64	778.2	6	—14.4	70	w.	5	2.2		4 cs	0			0	0	fair	J. B. Merrill.
Norfolk, Virginia	30.60	777.2	30.63	778.0	26	— 3.3	94	ne.	6	2.7		0	hz.			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.14	689.3	30.26	768.6	12.6	—10.8	70	calm	0	0		0	5 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.03	762.7	30.07	763.8	40.0	4.4	82	s.	1	0.4			10 s			0.53	13.5	cloudy	J. Dascomb.
Omaha, Nebraska	28.96	735.6	30.23	767.8	9.7	—12.4	71	calm	0	0		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska	29.41	747.0	29.43	747.5	— 1.2	—18.4	100	nw.	24	10.7		3 k	3 ks	w.	w.	0.07	1.8	fair	P. H. Ray.
Oswego, New York	30.13	765.3	30.48	774.2	12.0	—11.1	22	sw.	10	4.5			10 s		w.	inap	inap.	cloudy	J. G. Linsley.
Palestine, Texas	29.79	756.7	30.37	771.4	44.5	6.9	72	s.	10	7.2		2 cs	0	sw.		0	0	clear	L. M. Pindell.
Pensacola, Florida	30.50	774.7	30.53	775.4	41.2	5.1	48	ne.	6	2.7		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.54	775.7	30.65	778.5	10	—12.2	58	nw.	8	3.6		0	0			0	0	clear	T. T. Townsend.
Pike's Peak, Colorado	17.70	442.0	30.40	772.1	9	—12.8	73	nw.			7	0	6 ks			0	0	fair	H. Hall.
Ploche, Nevada	24.21	614 9	30.41	772.4	29	— 1.7	91	sw.	1	0.4			10 ks		w.	0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.68	753.9	30.53	775.4	7.0	—13.9	70	s.	5	2.2			10 s			inap.	inap.	cloudy	W. A. Reid.
Poplar River, Montana	28 22	716.8	30.57	776.5				nw.			1	0	0			0.07	1.8	clear	W. D. Maxwell.
Port Eads, Louisiana	30.45	773.4	30.46	773.7	51.1	10.6	83	e.	10	4.5		0	4 s		e.	0	0	fair	H. B. Boyer.
Port Huron, Michigan	29.61	752.1	30.34	770.6	— 0.8	—18.2	87	s.	15	6.7			10 n			0.06	1.5	light snow	W. O. Bailey.
Portland, Maine	30.38	771.6	30.43	772.9	7	—13.9	93	sw.	12	5.4		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.16	766.6	30.23	767.8	39.2	4.0	89	calm	0	0		8 cs	2 s	s.	se.	0.49	12.4	cloudy	M. L. Hearne.
Portsmouth, N. C.					36	2.2	79	ne.			4	0	hz.			0	0	clear	F. S. Coburn.
Prescott, Arizona	24.98	634.5	30.36	771.1	22.2	— 5.4	76	s.	2	0.9		0	0			0	0	clear	W. H. Clendenon.
Provincetown, Mass	30.49	774.4	30.52	775.2	9	—12.8	55	w.	9	4.0		0	1 s	w.		0	0	clear	P. T. Jenkins.
Punta Rasa, Florida	30.37	771.4	30.38	771.6	61	16.1	81	ne.	10	4.5			10 s		ne.	0.01	0.3	threatening	W. J. Evans.
Red Bluff, California	29.97	761.2	30.34	770.6	41	5.0	82	n.	4	1.8			10 ks		nw.	0	0	cloudy	J. R. Williams.
Rochester, New York	29.77	756.1	30.48	774.2	2	—16.7	72	sw.	11	4.9			10s;hz			inap.	inap.	cloudy	E. W. McGann
Roseburg, Oregon	29.71	754.6	30.28	769 1	34	1.1	88	calm	0	0			fg.			0.14	3.6	dense fog	J. J. Nanry.
Sacramento, California	30.26	768.6	30.34	770.6	41.4	5.2	92	n.	4	1.8			10 s		sw.	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.63	752.6	30.37	768.8	20.0	— 6.7	79	s.	9	4.0		6	0			inap.	inap.	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.11	739.4	29.14	740.1	23	— 5.0	100	n.	3	1.3			10 s			0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.14	740.1	30.09	764.3	5.0	—15.0	91	w.	8	3.6			10 s			0.03	0.8	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.49	749.0	30.47	773.9	—26	—32.2	100	nw.	8	3.6		0	0			0.00	1.5	clear	C. B Dilley.
Salt Lake City, Utah	25.83	656.1	30.40	772.1	21	— 6.1	61	calm	0	0		10 k	0.	sw.		0	0	cloudy	J. Craig.
San Antonio, Texas	29.64	752.8	30.37	771.4	43.0	6.1	100	calm	0	0			fg.			0	0	dense fog	T. J. Kenan.
San Diego, California	30.18	766.6	30.24	768.1	45.0	7.2	49	n.	3	1.3		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.68	753.9	30.40	772.1	10	—12.2	80	s.	10	4.5			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.62	777.7	30.65	778.5	12.0	—11.1	91	nw.	18	8.0		5 ck	0	nw.		0	0	fair	B. A. Blundon.
San Francisco, California	30.25	768.6	30.33	770.4	45.5	7.5	87	e.	2	0.9		3 cs	78;fg	w.	w.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.34	592.8	30.38	771.6	23.5	— 4.7	59	n.	10	4.5		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.49	774.4	30.59	777.0	38.5	3.6	69	nw.	4	1.8		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.36	669 5	30.22	767.6	7	—13.9	80	ne.	3	1.3		0	8 k		n.	0.01	0.3	cloudy	A. L. Mathews.
Shreveport, Louisiana	30.15	765.8	30.40	772 1	35	1.7	69	s.	2	0.9			10 s		s.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.92	734 6	30.25	768.3	27.5	— 2.5	78	s.	6	2.7		0	0			0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.51	622.5	30.37	771.4	24.0	— 4.4	88	calm	0	0		0	0			0	0	fair	N. D. Lane.
Sitka, Alaska	29.61	752.1	29.68	753.9	38.1	3.4	72	e.	10	4.5		5 k	0	e.		0.05	1.3	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.80	756.9	30.30	769.6	33.0	0.6	68	e.	4	1.8			10 s	s.		0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.54	775.7	30.58	776.7	31	— 0.6	78	n.	5	2.2		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.05	712.5	30.19	766.8	20	— 3.3	84	sw.	0	2.7			10 s			0.19	4.8	cloudy	H. Clifford.
Springfield, Illinois	29.51	749.5	30.24	768.1	20	— 6.7	79	s.	10	4.5			8 s	w.		0.01	0.3	cloudy	T. B. Jennings.
Springfield, Missouri	28.76	730.5	30.28	769.1	35	1.7	79	s.	8	3.6		7 c	0			0	0	fair	J. H. Bryce.
Starkville, Miss	29.99	761.7	30.49	774.4	35	1.7	94	s.	11	4.9		0	0			0	0	clear	C. Dill.
Stevenson, Fort, Dakota	28.45	722.6	30.51	774.9	— 9	—22.8	61	ne.	19	8.5			10 s			inap.	inap.	cloudy	W. Burrows.
Stockton, Fort, Texas	27.20	690.9	30.34	770.6	20	— 3.3	50	s.	7	3.1		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass	30.47	773.9	30.53	775.4	8.0	—13.3	70	w	20	8.9		0	0			0	0	clear	G. Liebmann.
Thomas, Camp, Arizona	27.54	699.5	30.37	771.4	20	— 3.3	88	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.63	752.6	30.37	771.4	9	—12.8	70	s.	5	2.2			10 n			0.02	0.5	light snow	A. Buell.
Tucson, Arizona	27.81	706.4	30.31	769.9	30	2.2	72	s.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.92	760.0	30.31	769.9	21	— 6.1	84	ne.	0	2.7		0	0			0.05	1.3	clear	J. Daly.
Verde, Fort, Arizona					25.9	— 3.4	45	n.			1	0	0			0	0	clear	D. Brooks.
Vicksburg, Mississippi	30.21	767.3	30.48	774.2	30.0	2.2	91	se.	8	3.6		0	0			0	0	clear	James Kenealy.
Visalia, California	29.96	761.0	30.35	770.9	31.8	— 0.1	79	calm	0	0		8 cs	0			0	0	cloudy	O. D. Stewart.
Washakie, Fort, Wyoming	24.40	619.7	30.10	766.8	23.0	— 5.0	70	nw.	5	2.2		9 k	0			0	0	cloudy	T. M. Ambler.
Washington, D. C.	30.54	775.7	30.66	778.7	13.0	—10.6	82	se.	2	0.9		2 ck	0			0	0	clear	H. M. Purssell.
West Las Animas, Colorado	26.16	664.5	30.30	769.6	9	—12.8	69	w.	4	1.8		3 c	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.97	761.2	30.66	777.2	— 1	—18.3	83	calm	0	0		10 cs	0			0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.52	775.2	30.58	776.7	34	1.1	78	ne.	4	1.8		0	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.79	655.1	30.33	770.4	31.5	— 0.3	71	sw.	9	4.0		0	9 s		sw.	0	0	cloudy	J. Grover.
Yankton, Dakota	28.80	731.5	30.22	767.6	10	—12.2	58	ne.	1	0.4		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	30.08	764.0	30.23	767.8	41.0	5.0	57	ne.	3	1.3		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			53.0	11.7	76	n.	3	1.3			9ks;8		nw.	0.74	18.8	cloudy	Joaquim Gomez.
Kingston, Jamaica, W. I.	30.13	765.3	30.14	765.5	69	20.6	94	calm	0	0		0	1 s		ne.	0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	70	24.4	82	ne.			2	3 c	0			0	0	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. Colmbia	29.43	747.5	29.99	761.7	77	25.0	89	calm			0	3 ck	5 ks	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.																0.13	3.3		Earl Flint.
St. Paul, Kodiak Id., Alaska	28.99	736.3	29.05	737.9	35	1.7	79	sw.			2		7 ks			0.73	18.5	cloudy	W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallos.
York Factory, B. A.	30.18	766.6	30.25	768.5	—30.0	—34.4		nw.	8	3.0		0	0			0	0	clear	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Amethyst, Port Stanley, Falkland Island†	29.42	747.3	45	7.2	69	ssw.			3		7							squally.
H. M. S. Audacious, Hong-Kong, China	29.98	761.5	66	18.9	89	e.			1		1	ne.						blue sky.
H. M. S. Boadicea, St. Helena Island, Africa	30.05	763.3				se.			2-3		2							d. clouds.
H. M. S. Champion, Singapore, Malay peninsula	29.88	758.9	80	26.7	82	var.			1		4					1	ne.	d. clouds.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.19	766.8	41	5.0	91	nnw.			1		10							raining.
H. M. S. Comus, S. 2° 38′, W. 82° 20′	30.00	762.0	70	21.1	95	s.			1-2		2					1	s.	misty
H. M. S. Constance, S 17° 08′, W. 35° 54′	30.02	762.5	81	27.2		ese.			2-4		7	ene				2	ene.	showery
H. M. S. Curaçoa, Yokohama, Japan	30.20	767.1	38.5	3.6	91	nnw.			1		10							overcast.
H. M. Dock-Yard, Bermuda, W. I.	30.44	773.2	59	15.0	73	wnw.			2-3		6	wnw.						d. clouds.
H. M. S. Dryad, N. 12° 56′, E., 90° 30′	29.90	759.4	81	27.2		ne.			2		5	ne.				1	w.	d. clouds.
H. M. M. Eclipse, N. 18° 54′ E. 72° 49′	29.74	755.4	79	26.1		nnw.			1		3							d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.81	757.2	80	26.7	82	ene.			1		4	ene.						d. clouds.
H. M. S. Espeigle, S. 40° 18′, E. 150° 14′	29.80	756.9	66	18.9	78	ese.			3		9					3	ene.	d. clouds.
H. M. S. Fawn, S. 14° 47′ W. 7° 01′	30.01	762.2	73	22.8	95	ese.			1		8					1	se.	d. clouds.
H. M. S. Flying Fish, N. 32° 29′, E. 129° 26′	30.05	763.3	55	12.8	90	n.			2		9					1	cf'd	misty.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.02	762.5	60	15.6	87	ene.			1		10							misty
H. M. S. Hecate, S. 27° 50′, W. 43° 20′	29.90	759.4	78	25.6	90	n.			6		4	ne.				4	nne.	d. clouds.
H. M. S. Himalaya, N. 18° 53′, E. 39° 36′	30.01	762 2	86	30.0	75	ese.			1		1					1	ese.	blue sky.
H. M. S. Iron Duke, N. 27° 40′ E. 33° 50′	30.02	762.5	69	20.6	90	calm			0		10							misty.
H. M. S. Kingfisher, Callao Bay, Peru	30.03	762 7	66	18.9		calm			0		10							misty.
H. M. S. Lark. S. 34° 50′, E. 174° 49′	30.07	763.8	69.3	20.7	98	ne.			4		10					1	ne.	raining.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.16	766.1	44.5	6.9	88	calm			0		10					2	ese.	raining.
H. M. S. Monarch Port Said, Egypt	30.01	762.2	68	20.0	?	e.			1-2		4							d. clouds.
H. M. S. Mutine, N. 16° 20′, W. 142° 17′	30.12	765.0	71.5	21.9		ne.			5		1					3	ne.	blue sky.
H. M. S Rocket, Valdivia, Chili	30.08	764.0	59	15.0	?	calm			0		3							d. clouds.
H. M. S. Serapis, N. 16° 24′, E. 62° 05′	29.88	758 9	78.5	25.8	75	wnw			1		4							d. clouds.
H. M. S Superb, N. 36° 00′ E. 23° 47′*	29.51	749.5	60	15.6	70	s.			6-7		6	ssw.				7	s.	squally.
H. M. S. Swiftsure, Bay of Paita, Peru	30.07	763.8	67	19.4	94	se.			1		6					1	s.	d. clouds.
H. M. S. Sylvia, S. 43° 04′, W. 73° 50′	29.56	750.8	39.7	4.3	81	nne.			3-5		10							squally.
H. M. S. Tourmaline, Bombay, India	29.85	758.2				w.			1		0							blue sky.
H. M. S. Tyne, N. 23° 20′, W. 17° 00′	30.34	770.6	62	16.7	71	ene.			3-4		1					2	ene.	blue sky.
H. M. S. Woodlark, Bushire, Persia	30.05	763.3	62.5	16.9	66	nw.			6		1					4	nnw.	squally.
Portuguese Naval.																		
Tamega, Macao, China	30.07	763.8	68.0	20.0	90	se.			3		3			0	0			d. clouds
United States Naval.																		
Navy Yard, Pensacola, Fla*	30.51	774.9	48	8.9	42	ne.	9	4.0			0			0	0			clear.
Navy Yard, Portsmouth, N. H*	30.44	773.2	6	—14.4	?	wnw.	10	4.5			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	30.19	766.8	34.5	1.4	89	n.			2		10	ne.		0.12	3.0			misty.
Adams, Sitka, Alaska†	29.63	752.6	38	3.3	90	e.			2		5	ene.						fair.
Alaska, Mare Island, Cal	30.31	769.9	45	7.2	92	calm			0		0			0	0			clear.
Alliance, N. 9° 46′, W. 79° 50′	29.96	761.0	79	26.1	95	ene.			3-4		5			light	light	mod.		fair.
Brooklyn, Keel Point, Patagonia*	29.57	751.1	49	9.4	64	wsw.	31	13.9			8	s.		0.01	0.3	sm'h		fair.
Colorado, New York, N. Y	30.70	779.8	6	—14.4	100	w.	4	1.8			5			0	0			fair.
Enterprise, N. 26° 00′, W. 35° 30′ *	30.10	764.5	71	21.7	84	ese.			6		8	calm				r'gh	sw.	cloudy.
Essex, Callao, Peru	30.00	762.0	66	18.9	94	sse.			1		10	se.						overcast.
Franklin, Norfolk, Va	30.63	778.0	26	— 3.3	?	ene.	6	2.7			2	calm		0	0			fair.
Galena, Montevideo, Uruguay*	29.69	754.1	79	26.1	73	wsw.			5		2					mod.	nw.	clear.
Hartford, Callao, Peru*	29.95	760.7	66	18.9	100	sse			1		10					sm'h	s.	foggy.
Independence, Mare Island, Cal	30.36	771.1	44	6.7	84	calm			0		10	se.		0	0			cloudy.
Iroquois, Callao, Peru	30.03	762.7	65	18.3	100	se.			1		10							foggy.
Jamestown, N. 35° 35′ W. 60° 15′	30.35	770.9	57	13.9	69	nw.			6		8	nw.				mod.	nw.	squally.
Juniata, N. 37° 02′. W. 1° 10′*	30.18	766.6	60	15.6	94	ne.			2		2	calm		0	0	sm'h		fair.
Kearsarge, La Guayra, Venezuela	30.03	762.7	76	24.4	76	ssw.			1		2					long	ne.	fair.
Lackawanna, N. 20° 23′, W. 155° 25′*	30.19	766 8	74	23.3	76	e.			4		5	e.				sm'h	e.	fair.
Lancaster, Villefranche, France	30.05	763 3	54	12.2	30	w.			1		0							clear.
Michigan, Erie, Pa	30.43	772.9	25	— 3.9	75	s.			2		10	e.						cloudy.
Minnesota, New York, N. Y	30.63	778.0	5	—15.0	100	nw.	4	1.8			2							clear.
Monocacy, Nagasaki, Japan	30.06	763.5	50	10.0	100	n.			2		10							raining.
New Hampshire, Newport, R. I	30.53	775.4	10	—12.2	100	wnw.			2		2	calm				sm'h		clear.
Nipsic, Lisbon, Portugal	30.37	771.4	60	15.6	82	n.			3		10							cloudy.
Onward, Callao, Peru*†	30.10	764.5	65	18.3	94	calm			0		10	n.						foggy.
Palos, Tientsin, China*	30.35	770.9	21	— 6.1	100	calm			0		5	sse.						fair.
Pensacola, Payta, Peru*	29.94	760.5	70	21.1	95	ese.	2	0.9			2			0	0	sm'h		clear.
Portsmouth, N. 37° 49′, W. 64° 55′	30.46	773.7	42	5.6	91	wnw.			5		8	nw.				r'gh	nw.	cloudy.
Powhatan, Boston, Mass	30.42	772.7	3	—16.1	100	w.			1		0							clear.
Quinnebaug, Genoa, Italy	30.14	765.5	43	6.1	35	nne.			3		0							clear.
Ranger, N. 28° 42′, W. 114° 53′*	30.27	768.8	59	15.0	64	nw.			1		0			0	0	sm'h		clear.
Richmond, off Macao, China*	29.97	761.2	65	18.3	94	se.			2		2	s.		0	0			hazy.
Saratoga, New York, N. Y	30.68	779.3	7	—13.9	77	nw.			3		2	nw.		0	0			clear.
St. Louis, League Island, Pa	30.66	778.7	8	—13.3	100	n.	12	5.4			2			0	0			clear.
Tennessee, St. Thomas Island, W. I*	30.06	763.5	80	26.7	70	ene.	7	3.1			0			light	light	sm'h		clear.
Vandalia, Samana Bay, San Domingo, W. I*	30.14	765.5	75	23.9	90	ene.			2		0							fair.
Wabash, Boston, Mass	30.53	775.4	4	—15.6	48	w.	3	1.3			5	e.						clear.
Wachusetts, N. 33° 13′ W. 131° 31′	29.99	761.7	60	15.6	94	sw.			4		2	w.		0	0			fair.
Wyandotte, Washington, D. C	30.49	774.4	30	— 1.1	100	s.			3		0					sm'h		fair.
Yantic, off Pearl Coy Island, Nicaragua	30.10	764.5	75	23.9	95	nne.			2		5	sw.		0	0			fair.
Merchant Marine.											2							
S. S. Grecian, N. 43° 25′, W. 9° 37′*	30.24	768.1	55	12.8	100	ssw.			4		10			0	0	mod.	sw.	hazy.
S. S. Scandinavian, N. 44° 45′, W. 51° 14′	30.07	763.8	28	— 2.2		wsw.			4		10		wsw.	shr's	sh'rs	high	w.	rain & snow
S. S. British Crown, N. 41° 45′, W. 61° 14′†	30.24	768.1	26	— 3.3		nw.			6		7		wnw.	sleet	slet	h'vy	w.	snowing.
S. S. Indiana, N. 42° 51′, W. 52° 42′			32	0.0	79	sw.			5		10		sw.	snow	snow	mod.	w.	snowing.
S. S. Lord Clive, Philadelphia, Pa	30.56	776.2				sw.			3		0			0	0			fine.
S. S. Lord Gough, N. 50° 41′, W. 25° 20′	29.69	754.1	42	5.6		w.			6		2		w.	shr's	shr's	long	w.	squally.
S. S. Ohio, N. 40° 27′, W. 45° 49′†	29.97	761.2	29	— 1.7	89	w.			7		10		wnw.			r'gh	w.	snowy.
S. S. Pennsylvania, Philadelphia, Pa†	30.55	776.0	8	—13.3	55	w.			1		10?		wnw.	0	0			clear.
S. S. Stella, N. 41° 01′, W. 62° 13′	30.29	769.4	38	3.3		wnw.			5		0		wsw.	1 h'r	1 h'r	5	w.	showery.
S. S. Anchoria, N. 49° 52′ W. 36° 35′†						w.			8		5		w.	sh'rs	sh'rs	h'vy	wnw.	cloudy.
S. S. Bolivia, N. 53° 22′, W. 28° 16′	29.45	748 0	40	4.4	82	wsw.			8		8		w.	snow	snow	high	w.	cloudy
S. S. Dorian, N. 38° 25′, W. 17° 25′*	30.33	770 4	60	15.6		wnw.			3		4		nnw.			long	wnw.	foggy.
S. S. Utopia, N. 40° 29′ W. 69° 20′†	30.57	770.5	23	— 5.0		wnw.			5		8		nw.	0	0	sm'h	nw.	cloudy.
S. S. Ailsa, Kingston, Jamaica, W. I †	30.21	767.3	78	25.6	73	ne.			2		1		ne.	0	0	sm'h	e.	fair.
S. S. Antillas, N. 18° 40′, W. 75° 10′†	30.24	768.1				ne.			3		3		ne.			h'vy	ene.	cloudy.
S. S. Ambrose, Manaos, Brazil†	30.00	762.0	79	20.1		calm			0		2			6 h'r	6 h'r			clear.
S. S. Landaff City, N. 51° 44′, W. 18° 48′ †*	29.75	755.6	45	7.2		w.			8		6		w.	sq'lls	sq'lls	h'vy	wsw.	squally.
S. S. Auckland, S. 37° 28′, W. 29° 01′	30.02	762.5	69	20.6	85	nw.			5		7							blue sky.
S. S. British Merchant, N. 32° 25′, W. 124° 54′	30.35	770.9	54	12.2	83	w.			2		6							d. clouds.
S. S. Caldew, S. 30° 07′, E. 37° 14′	30.02	762 5	76	24.4	91	ese.			6		5							d. clouds.
S. S. City of Agra, S. 28° 51′, W. 28° 27′	30.21	767.3	81.5	27.5	89	ne.			3		5							d. clouds.
St. Kilda, N. 45° 55′, W. 22° 30′	30.16	766.1	55.1	12.8	87	wnw.			4		3							d. clouds.
S. S. Scotia, N. 12° 34′, E. 44° 13′	29.92	760.0	86	30.0	58	sse.			3		2							blue sky.
S. S. Mexico, N. 35° 37′, W. 121° 31′†	30.30	769.6	55	12.8	93	nw.			3		0					mod.	nw.	
S. S. Bothnia, N. 41° 53′, W. 58° 11′	30.21	767.3	33	0.6	89	nnw.			5		8		nw.	snow	snow	r'gh	wnw.	squally.
S. S. Marathon, N. 43° 06′, W. 49° 40′	30.22	767.6	34	1.1		e.			4		10		e.	8 h'r	8 h'r	mod.	e.	snowing.
S. S. Parthia, New York, N. Y	30.65	778.5	21	— 6.1	71													

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																		
S. S. Pavonia, N. 49° 39′, W. 27° 18′	29.77	756.1	50	10.0	79	wsw.			7		9		wsw.	hail	hail	h'vy	w.	raining.
S. S. Rhinwidda, N. 50° 59′, W. 26° 20′*†	29.70	754.4	48	8.9		w.			8		8		w.	snow	snow	r'gh	w.	stormy.
S. S. France, N. 42° 42′, W. 60° 46′†	30.21	767.3				wnw.			5		10		wnw.	snow	snow	h'vy	wnw	snowing.
S. S. Ville de Marseilles, Ponce Porto Rico, W. I *†	30.10	764.5	85	29.4		ene.			5		0			sh'rs	sh'rs			clear.
S. S. Abyssinia, N. 49° 48′, W. 27° 50′	29.79	756.7	50	10.0	86	w.			8		10		w.	2 h'r	2 h'r	h'vy	w.	hailing.
S. S. Bohemia, Hamburg, Germany *†	30.50	774.7				se.			4		8		se.	0	0			fair.
S. S. Frisia, N. 42° 35′, W. 57° 21′	30.24	768.1				nw.			6		9		wnw.	snow	snow	cross	w.	snowy.
S. S. Rugia, New York, N. Y.	30.58	776.7																
S. S. Silesia, Hamburg, Germany			31.0	—0.6		n.			3		9		n.	0	0			fair.
S. S. Vandalia, Hamburg, Germany	30.54	775.7	30.2	— 1.0		se.			4		10		se.					cloudy.
S. S. Wieland, N. 48° 57′, W. 37° 11′	30.00	762 0				w.			6		8		w.	24 h'r	24 h'r	high	w.	stormy.
S. S. Archimedes, S. 15° 58′, W. 38° 39′	29.89	759.2				var.			1		4		ene.	30 minutes		sm'h		fine.
S. S. Hevelius, S. 3° —′, W. 30° —′†	30.09	764.3	81	27.2		sse.			6		4		sse.	0	0	sm'h		clear.
S. S. Ptolemy, S. 17° 27′, W. 34° 48′	30.04	763.0	75.7	24.3	93	w.			3	ck	8 k;n			0.20	5.1		se.	squally.
S. S. Virginian, N. 46° 53′, W. 43° 00′*	30.07	763.8	30	—1.1		wsw.			7		10		wsw.	hail	hail	h'vy	w.	cloudy.
S. S. Colorado, Galveston, Texas †	30.40	772.1	44	6.7		nne.			3		1		nne.	0	0			clear.
S. S. Rio Grande, Matanzas, Cuba, W. I†	30.18	766.6	72	22.2		ne.			6		8		ne.	shr's	shr's			gloomy.
S. S. San Marcos, N. 29° 10′, W. 80° 20′	30.51	774.9	62	16.7		e.			5		8		ese.	0	0	sm'h		fine.
S. S. Archimede, Messina, Sicily †	29.57	751.1	52	11.1	60	nnw			3		3		wnw.	4 h'r	4 h'r			fair.
S. S. Alleghany, Boston, Mass†	30.64	778.2	10	—12.2		sw.			2		0			0	0			fair.
S. S. Chalmette, N. 25° 55′, W. 80° 02′†	30.35	770.9	68	20.0		ene.			6		10		ene.	½ h'r	½ h'r	r'gh	ene.	cloudy.
S. S. Lone Star, N. 24° 30′ W. 80° 55′ †	30.29	769.4	72	22.2		ne.			5		7		ne.	sq'll	sq'll	h'v'y	ne.	squally.
S. S. New York, N. 28° 00′, W. 88° 00′†	30.43	772.9	66	18.9		ese.			5		8		se.	0	0	r'gh	ese.	cloudy.
S. S. Denmark, Gravesend, Eng†	30.23	767.8	39	3.9		sse.			3		2		sse.	0	0			clear.
S. S. Egypt, N. 49° 00′, W 36° 26′*†	29.85	758.2				w.			9		10		w.	0	0	h'vy	w.	cloudy.
S. S. Erin, Liverpool, Eng			41	5.0		s.			3		6		s.	2 h'r	2 h'r			
S. S. Helvetia, Liverpool, Eng			38	3.3		se.			0		5		se.	0	0			dull.
S. S. Holland, N. 44° 33′, W. 47° 10′	30.04	763.0	34	1.1		wsw.			4		10		w.	snow	snow	mod.	w.	snowing.
S. S. The Queen, N. 50° 07′, W. 4° 06′ *†	30.05	763.3	49	9.4		s.			6		10		s.	9 h'r	9 h'r	r'gh	s.	raining.
S. S. City of Merida, N. 22° 37′, W 87° 08′ †	30.23	767.8	78.8	26.0		e.			3		10		e.	1 h'r	1 h'r	cross	ne;e.	overcast.
S. S. City of Washington, N. 38° 25′, W. 74° 18′ †	30.63	778.0	20	—6.7		n.			4		0			0	0	sm'h		clear.
S. S. America, N. 42° 58′, W. 57° 34′ *	30.34	770.6	34.0	1.1	71	w.			6		8		wnw.	snow	snow	r'gh	w.	squally.
S. S. Braunschweig, S. 29° 30′ W. 47° 18′	29.79	756.7	81.5	27.5	93	nne.			3		2		nne.	0	0	light	nne.	clear.
S. S. Gen. Werder, N. 49° 47′, W. 7° 12′	29.92	760.0				s.			7		9		s.	4 h'r	4 h'r	cross	s.	light rain.
S. S. Hohenstaufen, N. 3° 30′, W. 29° 52′	29.92	760.0	82.4	28.0		se.			3		2		se.	0	0	light	n.	fair.
S. S. Hohenzollern, N. 26° 10′, W. 20° 40′	30.35	770.9				ese.			6		0					cross	se.	fair.
S. S. Neckar, N. 43° 48′, W. 50° 30′	30.16	766.1				calm			0		10			snow	snow	mod.	wnw.	snowing.
S. S. Salier, N. 48° 18′, W. 42° 43′	29.96	761.0	28	—2.2		w.			1–4		10		w.	4 h'r	4 h'r	h'vy	w.	cloudy.
S. S. Strassburg, N. 39° 43′, W. 12° 19′	30.41	772.4			67	var.					8		se.; nw.	2 h'r	2 h'r	mod.	var.	cloudy.
S. S. Arabic, N. 37° 10′, W. 150° 54′			56	13.3	69	wsw.			6		5		w.	shr's	shr's	mod	w.	fine.
S. S. Belgic, N. 34° 00′, E. 135° 20′ *†	30.04	763.0	55	12.8	87	nne.			3		10		nw.	1 h'r	1 h'r	sm'h	wnw.	cloudy.
S. S. Coptic, N. 42° 41′, W. 147° 23′	29.63	752.6	51.5	10.8	86	sw.			5		6		sw.	20 h'r	20 h'r	high	sw; w	squally.
S. S. Gaelic, N. 22° 12′, E. 114° 13′	30.10	764.5	61	16.1	94	ne.			4		2		ne.	0	0	sm'h		fair.
S. S. Oceanic, San Francisco, Cal†	30.26	768.6	49	9.4	106	se.			1									clear.
S. S. City of Augusta, New York, N. Y†	30.48	774.2				nw.			7		4			0	0			clear.
S. S. Mississippi, N. 40° 13′, W. 124° 30′*†	30.31	769.9	48	8.9		se.			4		10		s.			h'vy	wnw.	stormy.
S. S. Willamette, N. 48° 13′, W. 124° 50′†	30.14	765.5	43	6.1	92	sse.			6		8		s.	0.06	1.5	high	wnw.	rainy.
S. S. Oregon, Portland, Oregon†	30.37	771.4	35	1.7	90	calm			0		10							light rain.
S. S. Ancon, San Francisco, Cal †	30.25	768.3	45	7.2	92	e.			1		10		nw.					hazy.
S. S. City of Chester, San Francisco, Cal*†	30.30	766.6	44	6.7	92	e.			1		10							cloudy.
S. S. G. W. Elder, Victoria, B. C†	30.14	765.5	43	6.1	?	sw.			4		2			h'vy	h'vy			clear.
S. S. Orizaba, N. 33° 40′, W. 118° 15′*†	30.20	767.1	57	13.9	81	calm			0		0			0	0	sm'h	w.	clear.
S. S. Queen of the Pacific, San Francisco, Cal †	30.33	770.4				e.					5?							overcast.?
S. S. Victoria, San Francisco, Cal *†	30.26	768.6	40	4.4		e.			3		2		sse.					fair.
S. S. Australia, N. 19° 56′, W. 158° 34′ *†	29.98	761.5	73	22.8	85	e.			2		2		ese.	1 h'r	1 h'r	mod.	e.	clear.
S. S. City of Pekin, N. 29° 21′ E. 177° 35′ †	30.20	767.1	64	17.8	58	sw.			5		10		w.			large	nw.	cloudy.
S. S. City of Rio de Janeiro N. 17° 03′, W. 100° 38′			79	26.1	74	ne.			1		1		ne.	0	0	sm'h		clear.
S. S. City of Sydney, Sydney, N. S. W †	29.93	760.2	62	16.7	83	w.			3		5		sw.	0	0	sm'h		fair.
S. S. Colon, Aspinwall, Panama†	29.96	761.0	78	25.6		ne.			1		6		ne.	3 h'r	3 h'r	sm'h		fair.
S. S. Grenada, Panama, Panama †	29.95	760.7	75	23.9	90	nw.			1		0			1 h'r	1 h'r			clear.
S. S. San José, N. 21° 44′, W. 105° 36′*†	30.04	763.0				nnw.			3	5 c			nnw.		0	long	wnw.	
S. S. Zealandia, Sydney, N. S. W *.	29.59	751.6	68	20.0	100	sw.			2		10		ne.					showery.
S. S. Muriel, N. 30° 00′, W. 68° 03′*	30.41	772.4	66	18.9		n.			5		0			0	0	r'gh	n.	clear.
S. S. Caracas, N. 14° 08′, W. 68° 24′ †	30.12	765.0	81	27.2	76	ene.			5		2		ene.	0	0	r'gh	ne.	fair.
S. S. Claudius, Colon, U. S. C†	30.09	764.3	78.0	25.6	91	ne.			1		6		nne.	2 h'r	2 h'r	long	n.	fair.
S. S. Valencia, N. 26° 31′, W. 69° 45′ †	30.42	772.7	71	21.7	85	ne.			7		9		ene.	5 h'r	5 h'r	h'vy	nne.	raining.
S. S. Belgenland, N. 45° 12′, W. 50° 20′ †	30.14	765.5	29	—1.7	89	sw.			4		9		wsw.	2 h'r	2 h'r	mod.	w.	squally.
S. S. Nederland, N. 49° 42′ W. 7° 24′			53	11.7	100	ssw.			6		10		ssw.	8 h'r	8 h'r	cross	ssw.	rainy.
S. S. Pennland, New York, N. Y	30.51	774.9	0	—14.4	?	wnw.			1		0			0	0			fine.
S. S. Rhynland, N. 45° 40′, W. 52° 30′	30.11	764.8	27	—2.8	77	w.			4		7		nw.			long	nw.	snowy.
S. S. Switzerland, N. 50° 03′, W 21° 15′ †	29.79	756.7				wsw.			7		10		wsw.	1 h'r	1 h'r	h'vy	wsw.	cloudy.
S. S. Waesland, Antwerp, Belgium	30.49	774.4	33	0.6		se.			4		6		sse.	0	0			fair.
S. S. Leerdam, N. 47° 51′, W. 36° 40′*	29.96	761.0	44.1	6.7	84	wsw.			8		8		w.	hail	hail	h'vy	w.	showery.
S. S. Maas, Rotterdam, Holland	30.50	774.7	26.1	— 3.3		ese.			2		2		n.	0	0			fair.
S. S. W. A. Scholten, N. 47° 08′, W. 38° 48′	30.14	765.5	39.2	4.0	82	w.			7		10		w.	sqll's	sqll's	high	w.	fair.
S. S. Zaandam, N. 50° 29′, W. 16° 00′	29.69	754.1	62	16.7		s to W.			6		7 k		w.	3 h'r	3 h'r	6	wsw.	
S. S. State of Florida, New York, N. Y.			18	— 7.8		nw.			2		1		nw.	0	0			clear.
S. S. State of Georgia, N. 53° 14′, W. 26° 29′†	29.49	749.0	38	3.3		wsw.			9		8		wsw.	hail	hail	r'g'h	wnw.	squally.
S. S. Baltic, N. 46° 09′, W. 49° 27′*	30.04	763.0	27	—2.8		w.			2		10		wnw.	snow	snow	r'gh	wnw.	snowing.
S. S. Germanic, N. 43° 08′, W. 47° 24′ †	30.14	765.5	41	5.0		ne.			3		10		ne.	sh'rs	shr's	mod.	ne.	rain & snow
S. S. Lepanto, N. 50° 30′, W. 2° 10′*	30.31	769.9	40	4.4		sw.			8		9		sw.	0	0	h'vy	sw.	cloudy.
S. S. Marengo, N. 47° 16′, W. 38° 45′*	29.96	759.4				wsw.			8		10		wsw.	4 h'r	4 h'r	h'vy	wsw.	rain & snow
S. S. Otranto, N. 50° 55′ W. 44° 16′†	29.81	757.2	24	— 4.4		w.			8		8		w.			long	w.	cloudy.
S. S. Romano, New York, N. Y*†	30.57	776.5	4	—15.6		w.			2		2		wsw.	0	0			fine.
S. S. Salerno, N. 41° 44′, W. 56° 23′	30.36	771.1	30	2.2		nw.			6		7		nw.	3 h'r	3 h'r	r'gh	w.	showery.
S. S. Catherine Whiting, Philadelphia, Pa †	30.09	779.5				nw.			1		0			0	0			
S. S. Norman, N. 39° 59′, W. 75° 08′						ne.			1				ne.	snow	snow			heavy snow.
S. S. Saxon, N. 40° 00′, W. 73° 15′			15	—9.4		nw.			3		2			0	0			fine.
MISCELLANEOUS																		
Bg. Abbie Clifford, Havana, Cuba, W. I†	30.22	767.6	70	21.1		e.			3		10		e.	2 h'r	2 h'r			light rain.
Schr. Abbie H. Ghegen, Spring Wood Mills, S. C †	30.62	777 7	27	—2.8		calm			0					0	0			clear.
Bg. Alcira, N. 27° 37′, W. 63° 10′	30.23	767.8				nne.			6		8		nne.	2 h'r	2 h'r	cross	var.	cloudy.
Schr. Alpha, Demerara, British Guiana *†	29.98	761.5	80	26.7		ene.			3		2			0	0			fair.
Bk. Anna A. Holton, Tampico, Mexico †	30.25	768.3	70	21.1		w.			2		2		w.	0	0	sm'h		clear.
S. S. Anna Thormann, S. 11° 47′, W. 12° 48′	30.06	763.5	78.4	25.8	83	e.			3		1 k		e.	0	0	mod	se.	clear.
Bg. Antonio Lopez, Barcelona, Spain	30.10	764.5	52	11.1	54	ssw.			2		7			0	0			hazy.
Bg. Arthur, S. 27° 46′, W. 47° 00′ *†	29.44	747.8				nne.			3		8		nne.	½ h'r	½ h'r	mod.	var.	
Schr. Annie R. Lewis, N. 26° 42′, W. 61° 55′ †	30.44	773.2	74	23.3		e.			5		2		e.	0	0	long	se.	clear.
Bk. B. F. Watson, Hong Kong, China†	29.99	791.7	69	20.6		ene.			2		3		e.	0	0			clear.
Bg. Belle of the Bay, Galveston, Texas†	30.33	770.4				ese.			5		0			0	0			clear.
Bkt. Bonny Doon, N. 26° 47′, W. 30° 35′*†	30.20	767.1				e.			0		5		ese.	0	0	high	se.	cloudy.
Bk. Bremen, N. 25° 06′, W. 32° 35′ *	30.08	763.3				e.			5		8		e.	5 h'r	2 h'r	cross	var.	hazy.
Bk. Champion, Philadelphia, Pa			30	2.2		ne.			3		2		ne.	0	0			fair.
Bk. Commerce, N. 37° 18′, W. 100° 55′ †	30.29	769.4	60	15.0		nw.			5		10		nw.	0	0	mod	nw.	light fog.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
S. Cornelius, N. 53° 02′, E. 3° 04′†	30.32	770.1	37.6	3.1		ssw.			6		9		sw.	0	0	h'vy	sw.	cloudy.
Bkt. C. S. Bushnell, N. 37° 27′, W. 66° 52′						wnw.			4		8		nw.	snow	snow	mod.	w.	squally.
S. E. B. Sutton, N. 21° 20′, W. 35° 00′†	30.01	762.2	69	20.6	90	ese.			6		10		var.	4 h'r	4 h'r	r'gh	var.	rainy.
Bk. E. D. Bigelow, N. 43° 50′, W. 28° 25′*†	30.15	765.8				w.			3		8		w.	o	o	cross	wnw.	misty.
Schr. Edith R. Seward, N. 30° 25′, W. 72° 28′ †	30.54	775.7	58	14.4		ne.			1		4		e.	o	o	r'gh	ne.	clear.
Bk. Edmund Phinney, S. 30° 01′, W. 40° 55′†	30.04	763.0	79	26.1		nne.			5		7			o	o	r'gh	nne.	fair.
S. E. J. Spicer, N. 50° 42′, W. 19° 38′	29.65	753.1	53	11.7	93	wnw.			9		10		nw.	hv'y	hv'y	high	nw.	heavy rain.
Bk. E. L. Pettingill, S. 53° 20′, W. 85° 37′*†	30.10	764.5	46	7.8		ssw.			5		8		sw.	o	o	mod.	sw.	
Bk. Essex, S. 15° 10′ E. 45° 00′*†	29.70	754.4	85	29.4		n.			5					light	light		nw.	
Schr. F. E. McDonald, Jacksonville, Fla†	30.43	772.9	35	1.7		calm			0		0			o	o			fine.
S. Festina Lente, N. 53° 48′, E. 4° 24′	30.20	767.1	34	1.1		s.			6		2		ssw.	o	o	mod	s.	clear.
U. S. F. C. S. S. Fish Hawk, Washington, D. C			22	— 5.6		e.			1		4		ne.					clear.
S. S. Foscolia, Hardepool, Eng						ssw.			2		10			4 h'r	4 h'r			dull.
Bk. Freya, Matanzas, Cuba, W. I						ne.			6		10		ne.	2 h'r	2 h'r			squally.
S. Geo. Stetson, S. 25° — W. 40° — *†	29.98	761.5	81	27.2	87	nne.			6		2		ne.	o	o	chop	s.	clear.
S. Grecian, N. 25° 55′ W. 37° 43′†.	30.12	765.0	69	20.6	85	e.			6		6		e.	sq'll	sq'll	r'gh	e.	clearing.
Bk. Grey Eagle, S. 14° 18′, W. 35° 58′*†	29.90	759.4				e.			2		7		ene.	2 h'r	2 h'r	long	ese.	threatening.
Bk. Gronsvaer, Auckland, N. Z.	30.05	763.3	72.0	22.2		ene.			4		10		ne.	16 h'r	16 h'r			light rain.
Bk. Hattie G. McFarland, Demerara, Brit. Guiana*†	30.12	765.0	78	25.6		e.			4		6		e.	2 h'r	2 h'r			
Schr. Hattie Weston, Port of Spain, Trinidad, W. I*†	30.11	764.8	78	25.6		e.			1		5		e.	o	o	sm'h		fair.
Bk. Heinrich & Tonio, N. 30° 54′, W. 32° 02′			68.5	20.3		ese.			4					o	o	mod.	ese.	clear.
Bk. Horace Scudder, N. 31° 52′, W. 74° 09′*†	30.63	778.0	54	12.2		nne.			2		3		wsw.			light	sw.	
Schr. Isabel Alberto, New York, N. Y†	30.65	778.5				nw.			1		0			o	o			
Schr. James Slater, N. 18° 44′, W. 46° 28′ *†	29.95	760.7	75	23.9		nne.			6		2		ne.	1 h'r	1 h'r	hv'y	nne.	squally.
Bk. Johanne, N. 16° 52′, W. 37° 50′ *†	29.75	755.6	73	22.8		s.			8		10		ssw.	5 h'r	5 h'r	h'vy	var.	clearing.
Schr. John L. Thomas, N. 13° 00′, W. 68° 30′*†	30.10	764.5				ene.			3		1		ene.	o	o	h'vy	con.	clear.
Bkt. Josephine, S. 32° 41′, W. 18° 11′†	30.21	767.3	78	25.6	86	se.			2		5			¼ h'r	¼ h'r	sm'h		fair.
S. S. J. W. Wilson, Galveston, Texas*†	30.33	770.4	52	11.1		se.			1		0			o	o			clear.
Light House Tender, Laurel, Tampa Bay, Fla†	30.40	772.1	56	13.3		ene.			5		10		ene.	o	o			cloudy.
Bg. Lilian, N. 20° 56′, W. 66° 00′ †	30.27	768.8	80	26.7		e.			6		5		ene.	4 h'r	4 h'r	r'gh	var.	fair.
Bk. Louise Adelaide, Havana, Cuba, W. I†*	30.35	770.9				ene.			4		10		ene.	2 h'r	2 h'r	rg'h	ene.	
S. S. Malabar, N. 34° 44′, W. 41° 06′ *†	30.37	771.4				var.			1		5		sw.	o	o	mod.	nw.	cloudy.
Bk. Mary A. Troop, N. 42° 15′, W. 28° 20′*†	30.21	767.3				wnw.			4		8		w.	o	o	mod.	nw.	hazy.
Bk. Matilda C. Smith, N. 39° 58′, W. 47° 00′ †	30.11	764.8				se.			7		8		sw.	5 h'r	5 h'r	r'gh	nw.	drizzling.
Schr. Minnie A. Bonsall, Mayport, Fla †	30.59	777.0	64	17.8		n.			1		0							clear.
S. M. P. Grace. S. 20° 06′, W. 25° 26′ *	30.03	762.7	80	25.7		e.			5		3		ene.	rain	rain	short	e.	squally.
Bg. Myrtle, Barbadoes, W. I *†	29.90	759.4				e.			3		1		e.	4 h'r	4 h'r			clear.
Bkt. Norena, Matanzas, Cuba, W. I*†	30.35	770.9				ne.			5		7		ne.	3 h'r	3 h'r	mod.	ne.	squally.
Bg. O. C. Clary, N. 36° 54′, W. 72° 32′						nnw.			4		5		nnw.					
Schr. Ocean Traveler, N. 26° 40′, W. 62° 52′ †.	30.32	770.1				ene.			5		4					mod.	e.	rainy.
Bk. Ottawa, Alicante Harbor, Spain*	30.07	763.8	58	14.4		ssw.			1		0			o	o			clear.
S Paramita, San Francisco, Cal			41	5.0		se.			3		5?		se.	sh'rs	sh'rs			cloudy.?
S. S. Peconic, N. 47° 37′, W. 21° 12′ *†	29.88	758.9	54	12.2		w.			6				w.	o	o	h'vy	w.	cloudy.
S. S. Raleigh, Matanzas, Cuba, W. I*†	30.15	765.8	72	22.2		ne.			2		7		ne.	3 h'r	3 h'r	mod.	ne.	
Bk. Reindeer, Martinique, W. I*	30.16	766.1				ene.								o	o			squally.
S. Rudolph, N. 45° 35′, W. 27° 23′			53.5	11.9		w.			6		6		wnw	8 h'r	8 h'r	high	w.	rainy.
S. Sacramento. N. 26° 30′, W. 32° 50′ *†	30.23	767.8	84	28.9	71	e.			4		2		e.	o	o	sm'h		fine.
Bk. Saga, N. 37° 15′, W. 69° 28′			45	7.2		nnw.			8–9		10		var.	snow	snow	8	var.	
Schr. S. B. Hubbard, Mayport, Fla *†	30.60	777.3	58	14.4		calm			0		0			o	o			fine.
Bk. Southern Belle, N. 24° 23′, W. 63° 05′ *†	30.22	767.6	71	21.7		ene.			5		2		ene.	o	o	mod	ese.	fair.
S. Sovereign of the Seas, S. 16° 19′, W. 123° 12′ *†	30.14	765.5	77	25.0	91	e.			3		1		ese.	o	o	long	sw.	clear.
Bk. Sunbeam, Lisbon, Portugal *†	30.36	771.1	61	16.1	94	nw.			3		10		nw.	3 h'r	3 h'r			cloudy.
S. S. Sunbeam, N. 50° 34′, W. 13° 50′	29.67	753.6	54	12.2	87	ssw.			6		10		ssw.	2 h'r	2 h'r	6	ssw.	squally.
S. Titan, N. 6° 52′, W. 29° 36′*†	29.95	760.7	82	27.8	87	se.			2		8		sse.	8 h'r	8 h'r	mod.	nnw.	fair.
Bk. Wandering Jew, Montevideo, Uruguay †	29.72	754.9	77	25.0		nw.			4		2		nw.	o	o			clear.
Bk. Winifred, N. 25° 21′, W. 39° 45′ *†	30.20	767.1				var.							e.	o	o	h'vy	e.	squally.
Schr. Wm. Wiler, N. 24° 45′, W. 65° 15′†	30.28	769.1				ene.			5		5		e.	2 h'r	2 h'r	r'gh	e.	squally.
Bk. Xenia, N. 7° 40′, W. 28° 37′*†	30.00	762.0	82	27.8		ese.			3		1		sw.	o	o	long	n.	clear.

International Chart I. January 24, 1883. Isobars and Isotherms.

UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 25, 1883,

7 A. M., Washington Mean Time.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind. Upper.	CLOUDS. Amount and kind. Lower.	CLOUDS. Direction. Upper.	CLOUDS. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	30.21	767.2	60.4	15.8	75	e.	.....	.....	1	.....	1	.....	.....	0	0	very fair... ..	Malaterre.
Algiers	.....	.....	30.06	763.4	58.6	14.8	64	wnw.	.....	.....	6	.....	10	.....	.....	inap.	inap.	covered.....	Thève.
La Calle	.....	.....	29.93	760.2	48.2	9.0	73	nw.	.....	.....	6	.....	8	.....	.....	0	0	cloudy.....	Fonfrède.
Tunis	.....	.....	29.87	758.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.10	766.1	58.6	14.8	64	sw.	.....	.....	6	.....	2	.....	.....	0	0	fair.....	Pérès.
Tebessa	.....	.....	30.01	762.3	38.5	3.6	87	w.	.....	.....	5	.....	2	.....	.....	0.945	24.0	fair.....	Dognon.
Geriville	.....	.....	.....	.....	48.9	9.4	61	nw.	.....	.....	6	.....	4	.....	.....	0	0	cloudy... ...	Louchamp.
Laghouat	.....	.....	30.10	764.5	57.2	14.0	18	nw.	.....	.....	7	.....	4	.....	.....	0	0	cloudy.....	Abraham.
Biskra	.....	.....	30.04	763.1	59.0	15.0	39	nnw.	.....	.....	6	.....	4	.....	.....	0	0	cloudy.....	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.71	754.6	29.80	756.9	65.8	18.8	76	s.	9	4.0	.....	.....	5	.....	.....	0.06	1.5	fine.....	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.33	745 0	29.91	759.8	27.0	— 2.8	89	ne.	.....	.....	3	.....	10	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.25	743 0	30.07	763.7	25.5	— 3.6	91	ene.	4.9	2.2	.....	.....	3	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.17	740.9	30.10	764.6	27.7	— 2.4	80	n.	.....	.....	2	.....	10 8	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.67	728.3	30.00	762.0	26.6	— 3.0	76	e.	.....	.....	1	.....	10	.....	.....	0.063	1.6	.....	Andreas Rospini.
Hermannstadt	28.58	725.8	30.10	764.5	25.7	— 3.5	100	ese.	.....	.....	2	.....	10	.....	.....	0.071	1.8	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.42	721.8	29.85	758.2	19.0	— 6.9	81	ene.	.....	.....	1	.....	1	.....	.....	0	0	clear.....	The Staff.
Lemberg	29.18	741.1	30.24	768.0	23.0	— 5.0	71	se.	.....	.....	3	.....	10	.....	.....	0.012	0.3	.....	Dr. T. Stanecki.
Neu Schmecks	26.51	673.3	30.07	763.8	23.0	— 5.0	.....	calm	.....	.....	0	.....	9	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	29.72	754.9	29.84	757.8	35.2	1.8	95	nne.	.....	.....	1	.....	8	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.54	750.4	30.00	762.1	34.9	1.6	100	se.	.....	.....	3	.....	10	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.65	753.2	29.95	760.7	32.5	0.3	90	ne.	.....	.....	1	.....	10	.....	.....	.....	.....	snowing.....	Karl Stancel.
Trieste	29.75	755.6	29.85	758.1	31.0	— 0.2	78	ne.	.....	.....	2	.....	8	.....	.....	0	0	.....	Royal Academy.
Vienna	29.24	742.8	30.01	762.3	23.2	— 4.9	93	calm	.....	.....	0	.....	10	.....	.....	0.055	1.4	snowing.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.23	742.4	29.33	745.0	38.0	3.3	63	ssw.	6	2.7	.....	.....	1	.....	.....	0.435	11.0	blue sky.....	W. Boswell
Armagh, Observatory	29.22	742.2	29.46	748.3	38.5	3.6	80	ssw.	12	5.4	.....	.....	3	.....	.....	blank	blank	d. clouds.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.55	750.6	42.0	5.6	58	wsw.	21	9.4	.....	.....	1	.....	.....	.....	.....	blue sky.....	John Hartnup.
Bolton, Sharples	29.00	736.6	29.54	750.3	39.9	4.4	77	wsw.	24	10.7	.....	.....	3	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.12	739.6	29.51	749.5	39.5	4.2	82	w.	.....	.....	2	.....	4	.....	.....	0.35	8.9	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	80.0	26.7	66	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds.....	Corpl. J. Surgenor, A. H. C.
Cardington	.....	.....	.....	.....	42.2	5.7	73	sw.	.....	.....	0.6	.....	1	.....	.....	.....	.....	blue sky.....	John McLaren.
Chatham, School M. E	29.53	750.0	29.66	753.4	40.5	4.7	77	w.	.....	.....	1	.....	1	.....	.....	blank	blank	misty.....	Corpl. G. A. Pickles.
Falmouth, Observatory	29.53	750.0	29.77	756.1	45.0	7.2	79	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast.....	The Staff.
Fort Napier, Natal	27.42	696.5	29.64	752.8	88.6	31.1	55	e.	.....	.....	1	.....	5	.....	.....	.....	.....	blue sky.....	Corpl. F. Milner, A. H. C.
Galway	29.40	746 7	29.44	747.8	43	6.1	92	sw.	.....	.....	4	.....	9	.....	.....	0.35	8.9	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.22	767.6	30.28	769.1	60.0	15.6	94	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	d. clouds.....	Sgt. J. Norris, A. H. C.
Glasgow, Observatory	29.19	741.4	29.40	746.7	39.3	4.1	71	sw.	.....	.....	4	.....	3 k	.....	.....	.....	.....	blue sky.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.49	749.0	29.66	753.4	40.3	4.6	67	wnw.	.....	.....	2	.....	2	.....	.....	blank	blank	misty.....	The Staff.
Guernsey	29.48	748.8	29.78	756.4	45.5	7.5	80	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast.....	A. Collenette, F. M. S.
Kew, Observatory	29.64	752.8	29.68	753.0	42.0	5.6	61	w.	16	7.2	.....	.....	1	.....	.....	.....	.....	blue sky	The Staff.
Leicester, Museum	29.34	745.2	29.60	751.8	42.3	5.7	63	w.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky.....	J. C. Smith.
Malta, Mediterranean	.....	.....	.....	.....	47.0	8.3	92	w.	.....	.....	2	.....	7	.....	.....	0.05	1.3	d. clouds.....	Corpl. Keene, A. H. C
Nassau, Bahamas	30.19	766.8	30.24	768.1	73.0	22.8	90	ne.	.....	.....	3	.....	9	.....	.....	.....	.....	overcast.....	C. S. Duncombe.
Oscott, St. Mary's College	29.06	738.1	29.59	751.6	41.9	5.5	65	wsw.	.....	.....	6	.....	2	.....	.....	.....	.....	d. clouds.....	Rev. Jas. W. Browne
Oxford, Radcliffe Obs'y	29.42	747.3	29.05	753.1	41.4	5.2	71	w.	.....	.....	3	.....	0	.....	.....	.....	.....	squally.....	The Staff.
Plymouth	29.68	753.9	29.75	755.6	43.7	6.5	83	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	misty.....	John Merrifield.
Sandwick Manse, Orkneys	29.07	738 4	29.18	741.2	37.8	3.2	85	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky.....	Rev. C. Clouston, L. L. D.
Scutari Cemetery, Turkey	29.84	757.9	29.90	759.4	53.2	11.8	55	ene.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds.....	W. H. Lyne.
Sheffield	29.26	743.2	29.55	750.6	40.1	4.5	80	w.	.....	.....	1	.....	4	.....	.....	0.25	6.3	d. clouds.....	W. F. Cooper.
Silloth Rectory	29.41	747.0	29.44	747.8	41.2	5.1	76	w.	.....	.....	3	.....	5	.....	.....	0.225	5.7	d. clouds.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.54	750.3	40.3	4.6	67	wsw.	17	7.6	.....	.....	6	.....	.....	.....	.....	d. clouds.....	Rev. S. J. Perry.
Stratfield Turgiss	29.46	748.3	29.68	753.9	42.2	5.7	69	w.	.....	.....	3–4	.....	0	.....	.....	.....	.....	squally.....	Rev. C. H. Griffiths F. M. S.
Truro, Royal Institution	29.62	752.3	29.66	753.4	47	8.3	85	sw.	.....	.....	6	.....	10	.....	.....	.....	.....	raining.....	W. Newcombe.
Valencia, Observatory	29.45	748.0	29.48	748.8	44.1	6.7	88	sse.	29	13.0	.....	.....	10	.....	.....	.....	.....	raining.....	The Met'g'l Office.
CANADIAN.																			
Bathurst, N. B	.....	.....	.....	.....	0	—17.8	.....	calm	0	0	.....	.....	10 ks	.....	.....	0	0	overcast.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.98	761.5	30.03	762.7	8	—13.3	98	n.	10	4.5	.....	.....	10 n	.....	calm	0.050	1.3	light snow...	H. J. Cundall, C. E
Chatham, N. B*	30.06	763.5	30.13	765.3	— 2	—18.9	100	n.	1	0.4	.....	.....	10 8	.....	n.	0.04	1.0	cloudy.....	G. A. Blair.
Cornwall	30.05	763.3	30.27	768.8	— 3.5	—19.7	100	w.	.....	.....	1	0	0	.....	.....	0.10	2.5	blue sky.....	Jas. Smith, M. A.
Dalhousie	30.08	764.0	30.13	765.3	— 7.5	—21.9	.....	w.	.....	.....	2	.....	10 8	.....	.....	0	0	overcast.....	H. A. Johnson.
Father Point, Quebec*	30.13	765.3	30.15	765.8	— 7	—21.7	82	se.	20	8.9	.....	.....	10 n	.....	calm	0.01	0.3	light snow..	J. McWilliams.
Fort Garry, Manitoba*	29.60	751.8	30.63	778.0	—35	—37.2	100	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	James Stewart.
Fredericton	30.03	762 7	30.11	764.8	0.1	—17.7	97	nw.	1	0.4	.....	.....	10 8	.....	.....	0.115	2.9	overcast.....	Prof. Harrison, L. L. D.
Granton	29.14	740.1	30.30	771.1	4.7	—15.2	95	w.	2	0.9	.....	9 cs	0	.....	.....	0	0	d. clouds.....	Jas. Grant.
Halifax, N. S*	29.86	758.4	30.00	762.0	29	— 1.7	88	sw.	12	5.4	.....	.....	10 n	.....	sw.	0.140	3.6	light snow...	A. Allison.
Hamilton	29.94	760.5	30.38	771.6	5.7	—14.6	61	sw.	.....	.....	1	10 ck	0	nw.	.....	0	0	overcast.....	Geo. Dickson, B. A.
Kingston, Ontario*	29.95	760.7	30.33	770.4	0	—17.8	87	nw.	3	1.3	.....	5 ck	2 s	w.	calm	0.25	6.3	fair.....	A. P. Knight, M. A
Montreal, Quebec*	30.03	762.7	30.26	768.6	3	—16.1	100	w.	10	4.5	.....	0	0	.....	.....	0.06	1.5	clear.....	C. H. McLeod, C. E.
Ottawa	30.02	762.5	30.30	769.6	— 7.0	—22.2	100	sw.	.....	.....	1	0	0	.....	.....	0.10	2.5	blue sky.....	A. McGill, M. A.
Parry Sound, Ontario*	29.63	752.6	30.44	773.2	—12	—24.4	50	calm	0	0	.....	0	0	.....	.....	0.18	4.6	clear.....	Rev. R. Mosley.
Peterboro	29.58	751.3	30.44	773.2	— 5.9	—21.1	60	calm	.....	.....	0	0	0	.....	.....	0	0	clear.....	J. Dixon, B. A.
Port Dover, Ontario	29.61	752.1	30.38	771.6	8	—13.3	100	nw.	6	2.7	.....	10 c	0	.....	.....	0	0	fair	H. Morgan.
Port Stanley, Ontario	29.67	753.6	30.38	771.6	9	—12.8	87	nw.	6	2.7	.....	.....	10 n	.....	w.	0.10	2.5	cloudy.....	M. Payne.
Quebec, Quebec*	29.82	757.4	30.18	766.6	— 2	—18.9	65	nw.	.....	.....	1	0	2 c	.....	.....	0	0	fair.....	Capt. Ashe, R. N
Rockliffe, Ontario*	29.84	757.9	30.38	771.6	—14	—25.6	77	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	W. H. McIntyre.
Saugeen, Ontario*	29.58	751.3	30.37	771.4	6	—14.4	91	n.	14	6.3	.....	.....	10 8	.....	.....	0.17	4.3	cloudy.....	
St. Andrews, N. B	30.02	762.5	30.07	763.8	10	—12.2	92	nw.	3	1.3	.....	.....	10 n	.....	.....	0.15	3.8	cloudy	
St. John, N. B	29.87	758 7	30.05	763.3	8.0	—13.3	100	n.	8	3.6	.....	.....	10 8	.....	.....	0.13	3.3	overcast.....	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.08	764.0	17.6	— 8.0	.....	nw.	.....	.....	6	.....	.....	.....	.....	0	0	.....	The Commandant.
Stratford	28.95	735.3	30.39	771.9	1.3	—17.1	94	calm	0	0	.....	.....	10 8	.....	.....	0.25	6.3	overcast.....	C. J. Macgregor, M. A.
Sydney, C. B*	30.07	763.8	30.14	765.5	7	—13.9	91	se.	2	0.9	.....	.....	10 n	.....	.....	0.01	0.3	light snow..	T. C. Hill, C. E.
Toronto, Ontario*	29.96	761.0	30.40	772.1	1	—17.2	79	nw.	2	0.9	.....	2 cs	8 ks	w.	w.	0.35	8.9	cloudy	Magnetic Observatory.
Windsor	29.87	758.7	29.97	761.2	22.5	— 5.3	86	w.	12	5.4	.....	.....	10 n	.....	.....	0	0	overcast.....	Prof. W. H. Butler.
Woodstock	29.23	742.4	30.44	773.2	— 1.5	—18.6	81	sw.	3	1.3	.....	6 c	0	nw.	.....	0.40	10.2	d. clouds	Prof. Wolverton, M. A.
Yarmouth, N. S*	29.97	761.2	30.04	763 c	25	— 3.9	88	nw.	18	8.0	.....	.....	10	.....	w.	0.32	8.1	light sn w...	Lt. F. E. Wilmot, R. A.
CAPE COLONY.																			
Cape St. Francis Lt. House	29.81	757.2	29.84	757.9	73.0	22.8	84	w.	14.3	6.4	.....	0	8 k	.....	.....	0.125	3.2	hazy	John Duthie.
Springbok Fontein	27.84	707.1	.....	.....	75	23.9	43	sew.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustace.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the last 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.61	625.2	.....	.....	16.3	— 8.7	.....	e.	.....	.....	1	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.35	770.8	30.46	773.6	21.7	— 5.7	73	calm	.....	.....	0	.....	5	.....	.....	0	0	.....	Mission, S. J.
Zi-Ka-Wei, near Shanghai	30.28	769.1	30.30	769.7	37.8	3.2	95	nw.	10.1	4.5	.....	.....	10 n	.....	.....	0.209	5.3	raining	M. Marc Dechevrens, S.J
Danish.																			
Copenhagen	29.89	759.3	29.94	760.5	25.3	— 3.7	76	sse.	22	10	.....	.....	10	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	29.65	753.2	29.67	753.7	25.3	— 3.7	73	sse.	.....	.....	7	.....	1	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	28.88	733.5	28.92	734.6	6.3	—14.3	96	nw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	28.90	734.1	28.92	734.6	9.0	—12.8	.....	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	28.76	730.6	28.81	731.8	4.3	—15.4	.....	sw.	.....	.....	1	.....	9	.....	.....	.....	.....	snowing	
Stykkisholm, Iceland	28.34	719.7	28.38	720.8	31.3	— 0.4	87	s.	.....	.....	7	.....	10	.....	.....	.....	.....	snowing	A. O. Thorlacius.
Thorshavn	28.93	734.8	28.97	735.7	39.6	4.2	66	ssw.	9	4	.....	.....	7	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	29.57	751.0	29.66	753.3	25.7	— 3.5	69	se.	.....	.....	7	.....	0	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	28.65	727.8	28.70	729.0	3.7	—15.7	.....	e.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	
French.																			
Agen, Normal School	29.41	747.0	30.07	763.7	47.8	8.8	89	calm	.....	.....	0	.....	n;km	.....	.....	0.08	2.	.....	M. Labroue, Director.
Alençon, Normal School	29.26	743.1	29.81	757.1	38.1	3.4	97	wsw.	.....	.....	1	.....	k	nne.	nne.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	29.43	747.6	29.70	754.3	38.8	3.8	76	.....	.....	.....	2	.....	.....	.....	.....	0.209	5.3	.....	M. Fénéon, Command't.
Avignon, Normal School	29.87	758.8	29.95	760.8	29.5	— 1.4	100	n.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.24	742.8	29.83	757.7	30.2	— 1.0	93	sw.	.....	.....	1	.....	10	.....	.....	0.039	1.0	covered	M. Sallard, Director.
Beauvais, Normal School	29.49	749.0	29.76	755.9	41.0	5	66	nw.	.....	.....	1	.....	2	.....	nw.	0.240	6.1	slightly cl'dy	M. Frère Eugène Marié.
Besançon, Normal School	28.85	732.9	29.73	755.2	28.4	— 2	92	s.	.....	.....	1	.....	10 n	.....	n.	0.04	1.	snowing	M. Gobin, Director.
Bordeaux, Observatory	29.74	755.3	30.00	762.0	50.7	10.4	63	nw.	.....	.....	2	.....	5	.....	nw.	0.094	2.4	cloudy	M. Rayet, Director.
Bourges, Normal School	29.30	744.2	29.87	758.7	36.5	2.5	82	w.	.....	.....	1	.....	n	.....	w.	0.20	5.	.....	M. Malet, Director.
Brest, Naval Observatory	29.67	753.6	29.91	759.8	47.5	8.6	92	sw.	.....	.....	1	.....	9	.....	sw.	0.283	7.2	.....	M. de Kermarec, Dir.
Caen, Normal School	29.79	756.7	29.87	758.6	44.2	6.8	77	nw.	.....	.....	1	.....	0	.....	.....	0.12	3.	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.43	747.4	29.75	755.7	33.1	0.6	94	sse.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.21	741.9	29.73	755.1	25.9	— 3.4	91	sse.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.49	723.6	29.88	759.0	39.2	4.0	77	nw.	.....	.....	2	.....	8	.....	nw.	0.098	2.5	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.00	736.3	29.88	758.9	29.3	— 1.5	78	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	snowing	M. de Villemontée, Dir.
Commercy, Normal School	28.89	733.9	29.80	757.0	27.7	— 2.4	87	ne.	.....	.....	3	.....	10 n	ne.	ne.	0	0	covered	Dr. Goulet, Director.
Gap, Normal School	27.34	694.3	30.01	762.3	23.9	— 4.5	67	.....	.....	.....	.....	.....	10 n	n.	s.	.....	.....	snowing	M. Jemgirard, Director.
Gréasque, du Rhone	28.76	730.4	29.94	760.5	32.0	0	96	w.	.....	.....	1	.....	10	.....	sw.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.14	740.1	29.95	760.6	26.6	— 3	96	n.	.....	.....	1	.....	10 n	.....	.....	.....	.....	snowing	M. Ablard, Director.
Guéret	28.27	718.0	29.92	759.9	34.2	1.2	89	sw.	.....	.....	1	.....	n	.....	sw.	0.217	5.5	.....	M. Delorme, Dir.
Lamballe, Normal School	29.61	752.0	29.88	758.9	46.4	8	89	w.	.....	.....	2	.....	10	.....	w.	0.08	2.	covered	M. Ollitrault, Director.
Lescar, Normal School	29.50	749.2	30.07	763.7	48.9	9.4	86	wnw.	.....	.....	3	.....	10	.....	.....	0.142	3.6	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.84	757.9	29.94	760.5	47.5	8.6	78	nw.	.....	.....	1	.....	10	.....	w.	0.315	8.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.81	731.7	29.92	760.0	26.1	— 3.3	98	sse.	.....	.....	1	.....	10	.....	.....	0.024	0.6	light snow	M. André, Director.
Mans, Normal School	29.54	750.2	29.85	758.3	40.1	4.5	85	nw.	.....	.....	1	.....	2	.....	nw.	0	0	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.66	753.3	29.94	760.4	35.4	1.9	82	wnw.	.....	.....	1	.....	10	.....	sw.	0.004	0.1	snowing	M. Stephan, Director.
Montlouis	24.68	626.9	29.52	749.9	33.4	0.8	62	sw.	5.6	2.5	.....	.....	9	s.	.....	0.461	11.7	.....	M. Caré for Dr. Finss.
Montpellier, Normal School	29.81	757.2	29.97	761.1	32.0	0	100	nne.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	28.93	734.8	29.76	756.0	24.8	— 4.0	95	ne.	.....	.....	1	.....	10	.....	.....	.....	.....	snowing	M. Husse, Director.
Nantes, Observatory	29.79	756.7	29.82	757.5	49.1	9.5	69	wnw.	.....	.....	1–2	0	7 k	.....	wnw.	0.051	1.3	.....	M. Larocque, Director.
Perpignan, Observatory	29.86	758.4	29.98	761.4	35.6	2.0	98	s.	1.8	0.8	.....	.....	10	.....	.....	0.165	4.2	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.04	534.4	.....	.....	18.7	— 7.4	.....	se.	.....	.....	3–4	.....	10	.....	nw.	1.575	40.0	snowy	M. Vaussenat.
Privas, Normal School	28.86	733.0	29.98	761.6	27.7	— 2.4	.....	s.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.84	631.0	.....	.....	22.3	— 5.4	100	nw.	.....	.....	8	.....	10	.....	.....	0.248	6.3	snow & fog	M. Allnard, Director.
Rochefort, Naval Obs'y	29.93	760.2	29.96	761.0	46.0	7.8	100	w.	.....	.....	1	.....	0	.....	.....	0.03	16.	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.71	754.5	29.92	760.0	47.5	8.6	72	nw.	.....	.....	1	.....	2	.....	nw.	0.059	1.5	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.76	705.2	30.02	762.4	29.1	— 1.6	96	ne.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Seger, Director.
Rouen, Normal School	29.65	753.1	29.70	754.3	42.1	5.6	66	ne.	.....	.....	1	.....	0	.....	.....	0.051	1.3	clear	M. Moullot.
Saint Lô	.....	.....	.....	.....	38.5	3.6	52	se.	.....	.....	1	.....	5	w.	.....	0	0	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	29.61	752.1	29.78	756.3	38.7	3.7	83	ssw.	.....	.....	1	.....	0	.....	.....	0.205	5.2	.....	M. Renou, Director.
Toulouse, Observatory	29.32	744.7	30.04	763.1	43.3	6.3	90	nw.	.....	.....	3	.....	8	nw.	.....	0.110	2.8	very cloudy	M. Baillaud, Director.
Tours	29.72	754.9	29.90	759.4	42.1	5.9	91	w.	.....	.....	1	.....	5	nw.	wnw.	0.106	2.7	cloudy	M. de Tastes.
Versailles, Observatory	29.27	743.5	29.76	756.0	40.3	4.6	74	w.	.....	.....	1	.....	.....	.....	.....	0.236	6.0	.....	Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	29.95	760.7	30.10	764.5	53.1	11.7	65	n.	17.7	7.9	.....	c	4 k	n.	nw.	0.189	4.8	.....	M. Cartier, Director.
German.																			
Ansbach	28.35	720.0	29.90	759.4	18.5	— 7.5	70	s.	.....	.....	4	.....	1	s.	.....	0	0	.....	Prof. Jnedt.
Bamberg	29.02	737.0	29.85	758.3	25.5	— 3.9	55	se.	.....	.....	1	.....	2	se.	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	29.80	756.9	29.95	760.8	27.1	— 2.7	56	e.	.....	.....	3	.....	1	.....	.....	0	0	.....	Dr. Lonsch.
Breslau	29.49	749.0	30.02	762.5	26.1	— 3.3	74	sse.	.....	.....	3	.....	7	ssw	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	29.37	746.1	29.84	757.8	25.7	— 3.5	63	sw.	.....	.....	1	.....	10	sw.	.....	0.016	0.4	.....	Albert Senz.
Cassel	29.01	736.9	29.72	755.0	26.6	— 3.0	59	s.	.....	.....	4	.....	2	s.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.44	747.7	29.82	757.6	23.9	— 4.5	70	se.	.....	.....	1	.....	4	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.35	720.2	29.87	758.7	22.0	— 5.2	71	ssw.	.....	.....	2	.....	7	w.	.....	0.193	4.9	snowing	Wilhelm, Chief Tel.
Hamburg	29.72	755.0	29.82	757.3	24.4	— 4.2	75	se.	.....	.....	6	.....	0	.....	.....	0	0	.....	E. Preller.
Kiel	29.77	756.2	29.79	756.6	26.2	— 3.2	62	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.47	748.4	29.91	759.7	23.7	— 4.6	84	se.	.....	.....	2	.....	1	.....	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	29.69	754.1	29.89	759.2	25.3	— 3.7	67	se.	.....	.....	3	0	0	.....	.....	0	0	.....	Weather Observatory.
Memel	30.24	768.2	30.29	769.4	17.8	— 7.9	100	se.	.....	.....	3	1 cs	0	.....	.....	.....	.....	.....	Issermann.
Munich	27.95	710.0	29.80	756.9	12.0	—11.1	77	n.	.....	.....	2	.....	0	.....	.....	0	0	hazy	Central Station.
Neufahrwasser	30.18	766.5	30.19	766.9	23.0	— 5.0	84	se.	.....	.....	4	.....	10	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.26	743.1	29.78	756.4	23.0	— 5.0	.....	e.	.....	.....	1	.....	8	s.	.....	0	0	.....	Dickuether.
Stuttgart	28.86	733.1	29.81	757.2	20.3	— 6.5	95	e.	.....	.....	1	.....	7	n.	.....	0.016	0.4	snowing	Prof. Dr. Schoder.
Wustrow	29.91	759.7	29.93	760.3	25.9	— 3.4	82	se.	.....	.....	5	0	3 s	.....	.....	0	0	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.34	745.1	29.72	755.0	55.8	13.2	.....	se.	.....	.....	1.0	.....	9	.....	.....	0.075	1.9	covered	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.76	756.0	29.82	757.3	65.8	18.8	35	w.	20.0	8.9	.....	.....	2	.....	.....	0	0	d. clouds	
Deesa	29.22	742.1	29.70	754.4	69.4	19.1	64	ssw.	24.0	10.7	.....	.....	5	sw.	sw.	0.14	3.6	d. clouds	
Bombay	29.79	756.7	29.83	757.6	78.9	26.1	73	sw.	13.0	5.8	.....	.....	4	.....	n.	0	0	d. clouds	
Poona, Yarrowda	27.94	709.5	29.79	756.6	77.9	25.5	37	sw.	30.0	13.4	.....	.....	8	.....	wsw.	0	0	d. clouds	
Belgaum	27.29	693.2	29.83	757.8	74.6	23.7	50	sw.	11.0	4.9	.....	.....	1	.....	s.	0	0	d. clouds	
Lahore	28.86	733.0	29.64	752.8	54.7	12.6	94	e.	2.0	0.9	.....	.....	10	.....	.....	1.50	38.1	raining	
Roorkee	28.84	732.4	29.78	756.3	56.2	13.4	72	se.	15.0	6.7	.....	.....	10	w.	.....	0.82	20.8	drizzling	
Agra	29.19	741.4	29.78	756.3	60.7	15.9	94	e.	4.0	1.8	.....	.....	10	.....	e.	0.30	7.6	drizzling	
Nagpur	28.73	729.7	29.77	756.1	80.2	26.8	39	s.	16.0	7.2	.....	.....	9	.....	w.	0	0	gloomy	
Jubbulpore	28.44	722.4	29.82	757.5	69.7	20.9	63	se.	12.0	5.4	.....	.....	8	.....	sw.	0.10	2.5	gloomy	
Lucknow	29.45	748.1	29.85	758.2	57.3	14.1	91	e.	7.0	3.1	.....	.....	10	wnw.	.....	0.87	22.1	thnd'r storm	
Allahabad	29.52	749.9	29.85	758.1	65.8	18.8	95	e.	4.0	1.8	.....	.....	9	.....	e.	0.12	3.0	d. clouds	
Patna	29.77	756.1	29.99	761.0	68.4	20.2	70	e.	6.2	2.8	.....	.....	10	e.	e.	0	0	overcast	
Hazaribagh	27.88	708.1	29.94	760.3	67.4	19.7	63	e.	9.2	4.1	.....	.....	10	.....	.....	0	0	th'd'r;light'g	
Cuttack	29.80	758.5	29.95	760.6	76.4	24.7	61	se.	3.0	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.96	760.8	29.98	761.4	71.7	22.1	59	e.	3.0	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.93	760.1	30.05	763.3	66.6	18.9	87	ene.	8.5	3.8	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.89	759.2	29.98	761.5	69.6	20.9	57	n.	2.2	1.0	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.76	755.9	30.11	764.9	58.7	14.8	88	e.	2.0	0.9	.....	.....	2	.....	.....	0	0	blue sky	
Zanzibar	29.74	755.3	29.76	755.9	83.5	28.6	69	ene.	9.3	4.2	.....	.....	9	.....	.....	0.49	12.4	gloomy	
Jeypore	28.27	718.1	29.78	756.3	55.9	13.3	94	s.	10.0	4.5	.....	.....	10	.....	s.	0.39	9.9	raining	
Bellary	28.31	719.1	.....	.....	84.5	29.2	39	e.	6	2.7	.....	7 c	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.93	752.6	.....	.....	84.0	28.9	42	e.	1	0.4	.....	.....	0	.....	.....	0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.																			
Udine	29.45	747.9	29.87	758.7	34.5	1.4	44	se.	8.7	3.9	.....	.....	6	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.38	746.3	29.93	760.1	33.1	0.6	51	wsw.	4.9	2.2	.....	.....	0	nw.	.....	0	0	.....	Prof. Schiapparelli.
Padua	29.78	756.5	29.90	759.4	34.7	1.5	72	nne.	0.9	3.1	.....	.....	10	s.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.98	736.0	29.93	760.1	30.6	— 0.8	77	ne.	4.3	1.9	.....	.....	7	ne.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.71	754.5	29.90	759.5	34.5	1.4	51	n.	4.9	2.2	.....	.....	6	s.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	27.91	709.0	29.92	760.0	26.8	— 2.9	70	w.	.....	.....	2	.....	7	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.80	756.9	29.85	758 2	26.6	— 3.0	90	nne.	8.7	3.9	.....	.....	10	n.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.61	752.1	29.87	758.8	35.2	1.8	86	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.76	756.0	29.85	758.2	35.6	2.0	57	ene.	6.3	2.8	.....	.....	6	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.61	752.2	29.80	756.8	38.7	3.7	41	nne	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Prof. P. Tachini.
Lecce	29.43	747.6	29.69	754.2	43.9	6.6	71	wnw.	21.7	9.7	.....	.....	10	.....	.....	0.012	0.3	.....	Prof. C. de Giorgi.
Cosenza	28.82	732.0	29.74	755.3	39.2	4.0	67	e.	2.5	1.1	.....	.....	4	ne.	.....	0	0	.....	Prof. R. Conti.
Cagliari	29.69	754.1	29.89	759.2	42.8	6.0	35	nnw.	.....	.....	4	.....	5	n	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.45	748.1	29.71	754.6	43.7	6.5	59	nw.	3.8	1.7	.....	.....	7	nw.	.....	0.315	8.0	.....	Prof. G. Cacciatore.
Syracuse	29.63	752.7	29.68	753.8	46.6	8.1	72	nne.	8.1	3.6	.....	.....	8	nne.	.....	0.264	6.7	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.22	742.3	29.76	756.0	40.3	4.6	41	nw.	0	0	.....	.....	1	.....	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	21.67	550.3	.....	.....	— 0.6	—18.1	68	se.	.....	.....	2	.....	2	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	21.88	555.6	.....	.....	6.4	—14.2	53	ne.	.....	.....	2	.....	8	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.18	766.6	30.21	767.4	27.2	— 2.7	75	calm	.....	.....	0	3 cs;cs	0	.....	.....	0.193	4.9	clear	Hattori.
Awomori	30.22	767.6	30.26	768.6	14.0	—10.0	92	sw.	2.8	1.2	.....	6 cs	0	.....	.....	0.120	3.2	fair	K. Ogawa.
Hakodate	30.30	769.5	30.31	769.8	25.5	— 3.6	100	ene.	15.2	5.9	.....	.....	10	.....	se.	0.198	5.0	overcast	
Hamamatsu	30.13	765.3	30.16	766.0	45.4	7.4	83	calm	.....	.....	0	1 ck	9 s	.....	.....	0.350	8.9	cloudy	
Kagoshima	30.08	764 0	30.09	764.3	55.3	12.9	90	calm	.....	.....	0	.....	10 s	.....	w.	0.047	1.2	overcast	G. Miyanohaza.
Kioto	29.96	760.9	30.14	765.5	43.8	6.6	98	ne.	.....	.....	.....	.....	10 n	.....	.....	0.591	15.0	raining	M. Tojima.
Kochi	30.06	763.6	30.08	764.1	51.1	10.6	99	n	3.4	1.5	.....	.....	10	.....	.....	0.449	11.4	raining	K. Kusunose.
Miasaka	30.06	763.6	30.09	764.3	56.0	13.3	94	calm	.....	.....	0	0	8 ck;s	.....	w.	0	0	cloudy	K. Masusaki.
Nagasaki, I. M. Obs'y	29.86	758.4	30.06	763.6	52.4	11.3	93	se.	4.8	2.4	.....	.....	10 s	.....	.....	0.160	4.1	overcast	S. Takehayashi.
Niigata	30.09	764.3	30.13	765.3	36.4	2.4	79	e.	0.3	0.1	.....	.....	10 ck	.....	.....	0.360	9.1	covered	M. Morita.
Nobiru	30.21	767.4	30.23	767.8	35.8	2.1	76	ene.	13.0	5.8	.....	.....	10ks;n	.....	.....	0.480	12.2	covered	H. Midzushina.
Numazu	30.17	766.2	30.20	767.1	43.1	6.2	77	e.	.....	.....	2	.....	10ks;s	.....	.....	0.398	10.1	cloudy	R. Kaneda.
Sakai	30.08	764.0	30.09	764.3	44.9	7.2	90	w.	.....	.....	2	.....	10s;ks	.....	wsw.	0.043	1.1	cloudy	K. Yamawchi.
Sapporo	.....	.....	.....	.....	16.0	— 8.9	67	se.	8.6	3.8	.....	.....	10	.....	.....	0	0	covered	
Tokei Obs'y, Yeddo	30.17	766.3	30.25	768.4	35.9	2.2	90	nnw.	10.2	4.6	.....	.....	10 n	.....	n.	0.050	1.4	rainy	The Staff.
Wakayama	30.04	763.1	30.10	764.5	45.1	7.3	95	ne.	0.9	0.4	.....	.....	10 n	.....	.....	0.299	7.6	raining	Y. Kuwamura.
Osaka	30.11	764.7	30.12	765.1	43.7	6.6	94	ne.	11.5	5.1	.....	.....	10 n	.....	.....	0.350	9.0	raining	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.66	753.4	29.84	757.9	57.9	14.4	71	ne.	15.5	6.9	.....	0	5 k;ks	.....	ne.	0.24	6.1	fair	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	56	13.3	100	nw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	clear	H. Diaz Pena.
Guanajuato	23.80	604.5	30.02	762.5	48.7	9.3	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. Vicente Fernandez.
Leon	24.43	620.5	30.30	769.9	44 8	7 1	84	sw.	.....	.....	1	1 c	0	.....	.....	0	0	clear	Prof. M. Leal.
Mazatlan	29.82	757.5	30.09	764.2	61.0	16.1	88	nw.	5.3	2.3	.....	1 cs	0	sw.	.....	0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.6	30.34	770.6	48.9	9.4	72	calm	0	0	.....	9 ck	0	.....	.....	0	0	cloudy	The Staff.
Morelia	24.30	617.3	30.19	766.8	48.2	9.0	77	s.	.....	.....	2	4 ck	4 k	e.	e.	inap.	inap.	cloudy	M. Tena, M. D.
Pabellon	23.97	608.9	30.08	763.9	51.1	10.6	79	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Puebla, Catholic Institute	23.47	596.1	30.36	771.1	44.6	7.0	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
Zacatecas	22.56	574.1	30.37	771.3	45.07	7.77	70	wsw.	2.9	1.3	.....	7 ck	2 ks	w.	wsw.	0	0	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.60	751.9	29.60	751.9	37.4	3.0	.....	w.	.....	.....	4	.....	.....	.....	.....	0.079	2.0	.....	
Groningen	29.57	751.0	29.62	752.4	27.5	— 2.5	.....	s.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.59	751.5	29.59	751.5	30.7	— 0.7	90	ssw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	29.57	751.1	29.62	752.3	27.9	— 2.3	87	s.	.....	.....	3	.....	10	.....	.....	0.142	3.6	dull	H. van der Brink
Sub-series.																			
Batavia, Java	29.85	758.1	.....	.....	75.7	24.3	92	nne.	4.0	1.8	.....	.....	10	.....	.....	0.12	3.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.38	746.2	29.44	747.8	34.5	1.4	49	s.	31	14	.....	.....	10	.....	.....	0	0	.....	
Brono	29.30	745.8	29.40	746.8	34.2	1.2	46	s.	29	13	.....	.....	2	.....	.....	0	0	.....	
Christiania	29.71	754.6	29.86	758.5	26.6	— 3.0	85	ssw.	18	8	.....	.....	10	.....	.....	.....	.....	snowing	
Gjæsvær	29.22	742.3	29.25	743.9	38.1	3.4	.....	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	
Lodingen	29.28	743.0	29.32	744.8	37.0	2.8	70	ssw.	.....	.....	2	.....	6	.....	.....	blank	blank	.....	
PORTUGUESE.																			
Angra, Azores	30.22	767.7	30.38	771.7	61.9	16.6	83	w.	15.0	6.7	.....	.....	4	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.22	742.2	30.24	768.0	55.8	13.2	82	wnw.	11.9	5.3	.....	.....	8	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.35	771.0	30.44	773.2	65.8	18.8	64	sw.	5.6	2.5	.....	.....	0	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.00	762.0	30.37	771.3	55.9	13.3	84	wnw.	7.4	3.3	.....	.....	4	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.38	771.6	30.45	773.4	62.6	17.0	70	w.	9.8	4.4	.....	.....	3	.....	.....	0.079	2.0	.....	
Saint Paul de Loando	29.70	754.3	29.89	759.3	81.3	27.4	80	wsw.	2.5	1.1	.....	.....	3	sse.	.....	0	0	.....	
Serra da Estrella	25 38	644.6	30.22	767.5	40.1	4.5	100	wnw.	44.7	20.0	.....	.....	10	.....	.....	0.787	20.0	foggy	
RUSSIAN.																			
Akmolinski	28.96	735.6	30 18	766.6	— 5.3	—20.7	93	ssw.	4	2	.....	0	1 8	.....	.....	.....	.....	.....	Major K. Lasarew.
Archangel	29.80	756.9	29.82	757.4	12.9	—10.6	93	wsw.	2	1	.....	0	0 ks	.....	.....	0	0	.....	Capt. Sselliwerstow.
Ashuruda	30.35	770.9	30.26	768.5	47.7	8.7	70	w.	2	1	.....	ck	6 s;n	.....	.....	0	0	.....	
Astrakhan	30.48	774.2	30.40	772.1	18.0	— 7.8	80	nw.	4	2	.....	.....	10	.....	.....	blank	blank	heavy cl'ds,	Capt. Wisganow.
Baku	30.37	771.4	30.32	770.2	34.9	1.6	91	nnw.	18	8	.....	.....	10 kn	.....	.....	blank	blank	.....	
Barnaul	29.74	755.4	30.30	769.5	5.2	—14.9	82	sw.	9	4	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Bieloserask	29.66	753.4	30.17	766.3	17.2	— 8.2	78	wsw.	7	3	.....	.....	9 s	.....	.....	0	0	.....	
Dorpat	30.17	766.4	30.44	773.2	10.0	—12.2	100	s.	4	2	.....	.....	10 n	.....	.....	.....	.....	light snow	Observatory.
Ekaterinburg	28.68	728.4	29.73	755.2	1.8	—16.8	81	wsw.	22	10	.....	.....	10	.....	.....	.....	.....	snow-drift	Meteorological Obs'y.
Elissawetgrad	30.05	763.3	30.34	775.6	21.9	— 5.6	87	ene.	7	3	.....	0	8 s	.....	.....	blank	blank	.....	
Irkutsk	28.55	725.2	30.43	772.8	— 8.5	—22.5	86	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	
Kasan	29.66	753.4	29.90	760.9	8.6	—13.0	66	wsw.	7	3	.....	1 cs	0	.....	.....	0	0	.....	Observatory.
Kem	29.76	755.9	29.81	757.2	19.6	— 6.9	78	wsw.	22	10	.....	8 cs	0	.....	.....	0	0	.....	
Kertch	30.38	771.6	30.40	772.1	20.1	— 6.6	97	calm	0	0	.....	.....	10 n	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.82	757.3	30.51	774.9	18.9	— 7.3	98	se.	2	1	.....	.....	10ks;n	.....	.....	0	0	.....	Observatory.
Koslov	29.74	755.4	30.32	770.2	11.7	—11.3	85	wnw.	18	8	.....	.....	9 s	.....	.....	0	0	.....	
Libau	30.29	769.3	30.31	769.9	19.2	— 7.1	79	se.	9	4	.....	.....	10	.....	.....	0	0	.....	E. Quaas.
Lugan	30.25	768.3	30.46	773.6	6.6	—14.1	71	sw.	4	2	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.80	757.0	30.34	770.5	10.8	—11.8	81	w.	0.7	3.0	.....	5 cs	0	.....	.....	0	0	.....	
Nikolaiev	30.39	772.0	30.47	773.9	23.4	— 4.8	90	ene.	13	6	.....	.....	10 n	.....	.....	0.028	0.7	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amour	30.14	765.6	30.23	767.8	—11.6	—27.2	74	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Iwanow.
Pekin, China	30.37	770.0	30.40	773.6	26.1	— 3.3	33	nw.	18	8	.....	2 cs	0	.....	.....	0	0	.....	Physicla Observatory.
Petrozavodsk	29.80	758.5	30.08	763.9	20.8	— 6.2	71	nw.	22	10	.....	c	8 ks	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.91	759.7	30.45	773.5	18.1	— 7.7	94	se.	18	8	.....	.....	10 s	.....	.....	0	0	.....	
Poti	30.22	767.7	30.24	768 2	46.0	7.8	78	w.	4	2	.....	0	2 k	.....	.....	0	0	.....	
St. Petersburg	30.29	769 4	30.31	769.8	18.9	— 7.3	89	sw.	13	6	.....	.....	10 n	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.60	701.0	30.22	767.6	20.1	— 3.6	91	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	snowing	
Sevastopol	30.07	763.8	30.24	768.0	36.9	2.7	74	ne.	4	2	.....	0	1 8	.....	.....	0	0	.....	
Semipalatinsk	29.69	754 2	30.43	772.8	1.0	—17.2	79	e.	13	6	.....	.....	4	.....	.....	0	0	.....	Major Lasarew.
Staroi Bykhov	30.05	763.3	30.50	770.1	16.7	— 8.5	91	se.	4	2	.....	.....	10	.....	.....	0	0	.....	
Tiflis	28.83	732.3	30.33	770.4	31.6	— 0.2	79	s.	4	2	.....	.....	9 k	.....	.....	0	0	.....	Physical Observatory
Tomsk	29.62	752.3	29.92	760.0	7.5	—13.6	75	s	4	2	.....	.....	10	.....	.....	.....	.....	.....	
Viatka	29.18	741 2	29.86	758.4	8.8	—12.9	.....	w.	2	1	.....	.....	9	.....	.....	0	0	.....	
Warsaw	29.77	756.1	30.22	767.6	22.6	— 5.2	74	s.	29	13	.....	c	4 ks	.....	.....	0	0	.....	Astronomical Obs'y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Wilna	30.02	762.4	30.47	774.0	18.3	— 7.6	92	se.	7	3	.....	.....	10	.....	.....	0	0	heavy clouds	Berg, Assistant.
Yeniseisk	29.61	752.0	29.92	760.0	2.5	—16.4	83	wsw.	9	4	.....	.....	10	.....	.....	0	0	.....	M. O. Marks.
Scottish.																			
Monach Lt	.....	.....	29.12	739.6	44	6.7	92	sw.	.....	.....	7	.....	19	.....	.....	0.2	5.1	showery	J. Youngclauss.
North Unst	.....	.....	29.07	738.4	.....	.....	.....	sw.	.....	.....	6	.....	6	.....	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.80	756.9	29.91	759.6	49.1	9.5	67	ne.	3.8	1.7	.....	0	0	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.13	765.2	30.19	766.7	51.3	10.7	94	nw.	3.6	1.6	.....	.....	10	.....	.....	0.299	7.6	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.14	689.3	30.18	766.6	45.0	7.2	77	s.	4.7	2.1	.....	.....	7	.....	.....	0.118	3.0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	28.85	707.3	30.08	763.9	57.2	14.0	60	nw.	22.4	10.0	.....	3e	0	.....	.....	0	0	light clouds	The Staff
Murcia, Met. Obs'y	29.88	759.0	30.04	762.9	65.5	18.6	58	nnw.	6.7	3.0	.....	3	4	e.	.....	0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.27	743.4	30.13	765.4	51.8	11.0	93	e.	12.5	5.6	.....	6 n	4 n	n.	n.	0.016	0.4	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.24	742.6	30.14	765.6	53.4	11.9	98	sw.	12.5	5.6	.....	.....	10	.....	.....	0.217	5.5	misty	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.89	759.2	29.95	760.7	78.0	25.6	78	n.	19.7	8.8	.....	1 c	2 k	.....	ene.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.24	768.1	30.34	770.7	58.3	14.6	78	wnw.	13.1	5.9	.....	3	3	w.	w	0.006	0.2	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.00	762.1	30.10	764.4	75.9	24.4	84	ne.	13.9	6.2	.....	5 k	4 k	ne.	ne.	0.138	3.5	d. clouds	Manuel Maese.
Swedish.																			
Hapsranda	29.76	755.8	29.80	756.8	20.5	— 6.4	95	sw.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Umea	29.87	758.7	29.92	760.0	24.8	— 4.0	87	sw.	.....	.....	4	.....	8	.....	.....	0.055	1.4	.....	
Hernosand	29.89	759.3	29.95	760.6	25.9	— 3.4	82	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Stockholm	29.94	760.5	30.12	765.0	29.1	— 1.6	70	ssw.	.....	.....	6	.....	10	.....	.....	0	0	.....	
Wisby	30.13	765.3	30.19	766.8	28.4	— 2.0	80	s.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.00	761.9	30.08	764.1	24.1	— 4.4	84	s.	15.4	6.9	.....	.....	7	.....	ssw.	0.004	0.1	.....	S. G. Fineman.
Swiss.																			
Geneva	28.43	722.1	29.95	760.8	23.7	— 4.6	95	se.	.....	.....	2	.....	10	.....	.....	0.106	2.7	snowing	The Observatory.
Turkish.																			
Constantinople	.....	.....	29.95	760.6	49.3	9.6	63	ene.	13	6.0	.....	.....	5	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	29.69	754.2	42.3	5.7	.....	ne.	.....	.....	1	.....	10	.....	.....	0.31	8.	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.92	760.0	64.9	18.3	55	calm	.....	.....	0	9 ck	0	w.	.....	0	0	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.39	670.3	.....	.....	29	— 1.7	95	calm	.....	.....	0	0	9 n	.....	w.	0.02	0.5	threatening	Fred L. Kingsbury.
United States.																			
Albany, New York	30.20	767.1	30.29	769.4	22	— 5.6	73	n.	4	1.8	.....	.....	10 s	.....	n.	0	0	cloudy	J. C. Barnes.
Alpena, Michigan	29.73	755.1	30.44	773.2	4	—15.6	72	n.	5	2.2	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.21	640.3	30.33	770.4	21	— 6.1	76	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	26.98	685.3	30.02	762.5	— 7	—21.7	61	calm	0	0	.....	1 c	0	w.	.....	0.11	2.8	clear	B. O. Lenoir.
Atlanta, Georgia	29.13	739 9	30.36	771.1	42.5	5.8	62	se.	1	0.4	.....	.....	10 ks	.....	sw.	0	0	cloudy	H. C. Smith.
Atlantic City, New Jersey	30.21	767.3	30.22	767.6	32	0.0	78	n.	3	1.3	.....	10 ck	0	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.18	766.6	30.38	771.6	39	3.9	82	calm	0	0	.....	10 k	0	w.	.....	0	0	cloudy	John Healy.
Baltimore, Maryland	30.19	766.8	30.24	768.1	38	3.3	82	s.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	Geo W Felgar.
Barnegat, New Jersey	30.22	767.6	30.24	768.1	32.0	0.0	68	nw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.57	751.1	29.59	751.6	26.1	— 3.3	.....	n.	16	7.2	.....	.....	10 n	.....	.....	0.02	0.5	cloudy	Leonard Steineger.
Bennett, Fort, Dakota	28.76	730.5	30.50	774 7	—16	—26.7	67	se.	1	0.4	.....	3 c	3 s	nw.	.....	0.10	2.5	fair	A. Pritchard.
Benton, Fort, Montana	26.99	685.5	29.97	761.2	0	—17.8	72	calm	0	0	.....	6 k	0	.....	.....	0	0	fair	S. Wheaton.
Billings, Montana	26.59	675.4	.....	.....	6	—14.4	76	e.	4	1.8	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	T. Gibson.
Bismarck, Dakota	28.42	721.9	30.41	772.4	—12	—24.4	100	se.	10	4.5	.....	9 k	0	.....	.....	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.19	766.8	30.22	767.6	30	— 1.1	68	n.	16	7.2	.....	.....	10 s	.....	w.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	26.90	683.2	29.83	757.7	33	0.6	88	se.	4	1.8	.....	.....	10 n	.....	.....	0.14	3.6	light rain	B. E. Light.
Boston, Massachusetts	30.04	763.0	30.21	767.3	29.2	— 1.6	90	w.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	O. B. Cole.
Brownsville, Texas	30.08	764.0	30.13	765.3	56.6	13.7	100	s.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	M. McCarty.
Buffalo, New York	29.57	751.1	30.37	771.4	9.3	—12.6	85	s.	5	2.2	.....	3 ck	4 s	w.	s.	0.07	1.8	fair	W. Finn.
Buford, Fort, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. A. Mellen.
Burlington, Vermont	29.96	761.0	30.27	768.8	12.0	—11.1	80	ne.	1	0.4	.....	0	7 s	.....	n.	0.02	0.5	fair	G. C. Schneider.
Cairo, Illinois	29.81	757.2	30.23	767.8	38.8	3.8	74	n.	14	6.3	.....	.....	10 s	.....	w.	0	0	threatening	W. H. Ray.
Cape Henry, Virginia	30.30	769.6	30.32	770.1	40	4.4	73	sw.	16	7.2	.....	4 ck	0	.....	.....	0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.22	767.6	30.25	768.3	35.0	1.7	79	nw.	16	7.2	.....	.....	9 s	.....	w.	0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.37	746.0	30.07	763.8	48	8.9	100	se.	.....	.....	2	3 k	0	se.	.....	1.32	33.5	clear	J. J. McLean.
Cedar Keys, Florida	30.26	768.6	30.28	769.1	51	10.6	86	ne.	7	3.1	.....	2 cs	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.46	748.3	30.33	770.4	14.0	—10.0	73	ne.	16	7.2	.....	.....	10 n	.....	ne.	0.02	0.5	light snow	L. A. Welsh.
Charleston, S. Carolina	30.29	769.4	30.35	770.9	47	8.3	93	calm	0	0	.....	.....	3s;fg	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.42	747.3	30.31	769.9	34.0	1.1	78	sw.	6	2.7	.....	5 cs	fg.	sw.	.....	0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.48	748.8	30.34	770.6	35.0	1.7	79	e.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.93	607.8	30.18	766.6	26.1	— 3.3	58	w.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.66	753.4	30.40	772.1	18.9	— 7.3	59	e.	5	2.2	.....	.....	10 n	.....	.....	0.20	5.1	light snow	J. Mitchell.
Chincoteague, Virginia	30.22	767.6	30.24	768.1	38	3.3	72	w.	5	2.2	.....	3 k	3 ks	w.	nw.	0	0	fair	O. F. Dickens.
Cincinnati, Ohio	29.59	751.6	30.28	769.1	31	— 0.6	88	n.	7	3.1	.....	.....	10 s	.....	nw.	0	0	cloudy	R. B. Watkins.
Cleveland, Ohio	29.60	751.8	30.38	771.6	13	—10.6	89	n.	4	1.8	.....	.....	10 n	.....	.....	0.01	0.3	light rain	J. B. Newlin.
Coleman City, Texas	28.27	718.0	30.15	765.8	39	3.9	92	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	29.41	747.0	30.31	769.9	18	— 7.8	100	ne.	14	6.3	.....	.....	10 n	.....	.....	0.02	0.5	light snow	D. Cuthbertson.
Concho, Fort, Texas	28.13	714.5	30.15	765.8	34.0	1.1	81	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Davenport, Iowa	29.75	755.6	30.46	773.7	9	—12.8	55	ne.	6	2.7	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	W. B. Lamar.
Davis, Fort, Texas	25.26	641.6	30.24	768.1	34	1.1	65	calm	0	0	.....	.....	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	27.95	709.9	29.75	755.6	32	0.0	81	sw.	3	1.3	.....	9 k	0	sw.	.....	0.09	2.3	cloudy	D. Moore.
Deadwood, Dakota	25.19	639.8	30.13	765.3	21	— 6.1	87	ne.	2	0.9	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	F. Willson.
Delaware Breakwater, Del	30.19	766.8	30.21	767.3	36	2.2	79	sw.	20	8.9	.....	.....	10 ks	.....	sw.	0	0	cloudy	T. S. Townsend.
Denison, Texas	29.26	743.2	30.10	764.5	48.0	8.9	92	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Denver, Colorado	24.64	625.8	30.16	766.1	31.0	— 0.6	92	nw.	3	1.3	.....	.....	10 s	.....	nw.	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.54	750.3	30.51	774.9	3	—16.1	72	ne.	10	4.5	.....	5 cs	0	n.	.....	0.08	2.0	fair	F. W. Conrad.
Detroit, Michigan	29.67	753.6	30.43	772.9	12.0	—11.1	80	nw.	4	1.8	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.56	700.0	30.31	769.9	8	—13.3	100	n.	13	5.8	.....	.....	10 n	.....	.....	0.01	0.3	light snow	V. P. Temple.
Dubuque, Iowa	29.76	755.9	30.53	775.4	4.3	—15.4	52	calm	0	0	.....	0	0	.....	.....	0.01	0.3	clear	J. Harvey Smith.
Duluth, Minnesota	29.77	756.1	30.58	776.7	—14	—25.6	100	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.35	745.5	30.19	766.8	42.1	5.6	83	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.27	641.8	30.23	767.8	33	0.6	81	sw.	20	8.9	.....	.....	10 n	.....	.....	0.20	6.6	light rain	J. M. Clifford.
Eastport, Maine	30.02	762.5	30.09	764.3	11.0	—11.7	80	nw.	8	3.6	.....	.....	10 s	.....	nw.	0.22	5.6	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.26	692.4	30.18	766.6	24	— 4.4	64	ne.	20	8.9	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
El Paso, Texas	26.39	670.3	30.27	768.8	30.0	— 1.1	41	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.62	752.3	30.39	771.9	13	—10.6	80	nw.	2	0.9	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	Peter Wood.
Escanaba, Michigan	29.77	756.1	30.49	774.4	— 5.0	—20.6	68	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	George Heathcote.
Fredericksburg, Texas	28.37	720.6	30.19	766.8	53	11.7	100	sw.	8	3.6	.....	.....	fg.	.....	.....	0	0	dense fog	Frank Halwegler.
Galveston, Texas	30.10	766.1	30.21	767.3	57	13.9	93	se.	10	4.5	.....	2 c	hz.	sw.	.....	0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.71	754.6	30.42	772.7	10.0	—12.2	80	ne.	1	0.4	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.33	643 4	30.23	767.8	32	0.0	57	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.34	770.6	30.36	771.1	43	6.1	93	sw.	10	4.5	.....	hz.	3 s	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.51	647.9	29.94	760.5	26	— 3.3	88	calm	0	0	.....	6 cs	0	calm	.....	0	0	fair	N. C. Smith.
Henrietta, Texas	29.04	737.6	30.11	764.8	30	— 1.1	67	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Huron, Dakota	29.02	737.3	30.56	776.2	—15.3	—26.3	46	nw.	1	0.4	.....	0	0	.....	.....	0.04	1.0	clear	S. W. Glenn.
Indianapolis, Indiana	29.48	748.8	30.32	770.1	20	— 6.7	84	ne.	9	4.0	.....	.....	10 n	.....	ne.	0.01	0.3	light snow	J. F. Jirdinston.
Indianola, Texas	30.14	765.5	30.17	766.3	47.0	8.3	100	e.	8	3.6	.....	.....	fg.	.....	.....	0	0	dense fog	I. A. Reed.
Jacksboro, Texas	28.89	733.0	30.10	764.5	48	8.9	63	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Jacksonville, Florida	30.38	771.6	30.43	772.9	46	7.8	93	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.38	695.4	30.07	763.8	— 2	—18.9	62	ne.	3	1.3	.....	10 c	0	nw.	.....	0.01	0.3	cloudy	A. Schneider.
Keokuk, Iowa	29.72	754.9	30.42	772.7	10.0	—12.2	69	ne.	12	5.4	.....	.....	10 s	.....	ne.	0	0	cloudy	F. Z. Gosewisch.

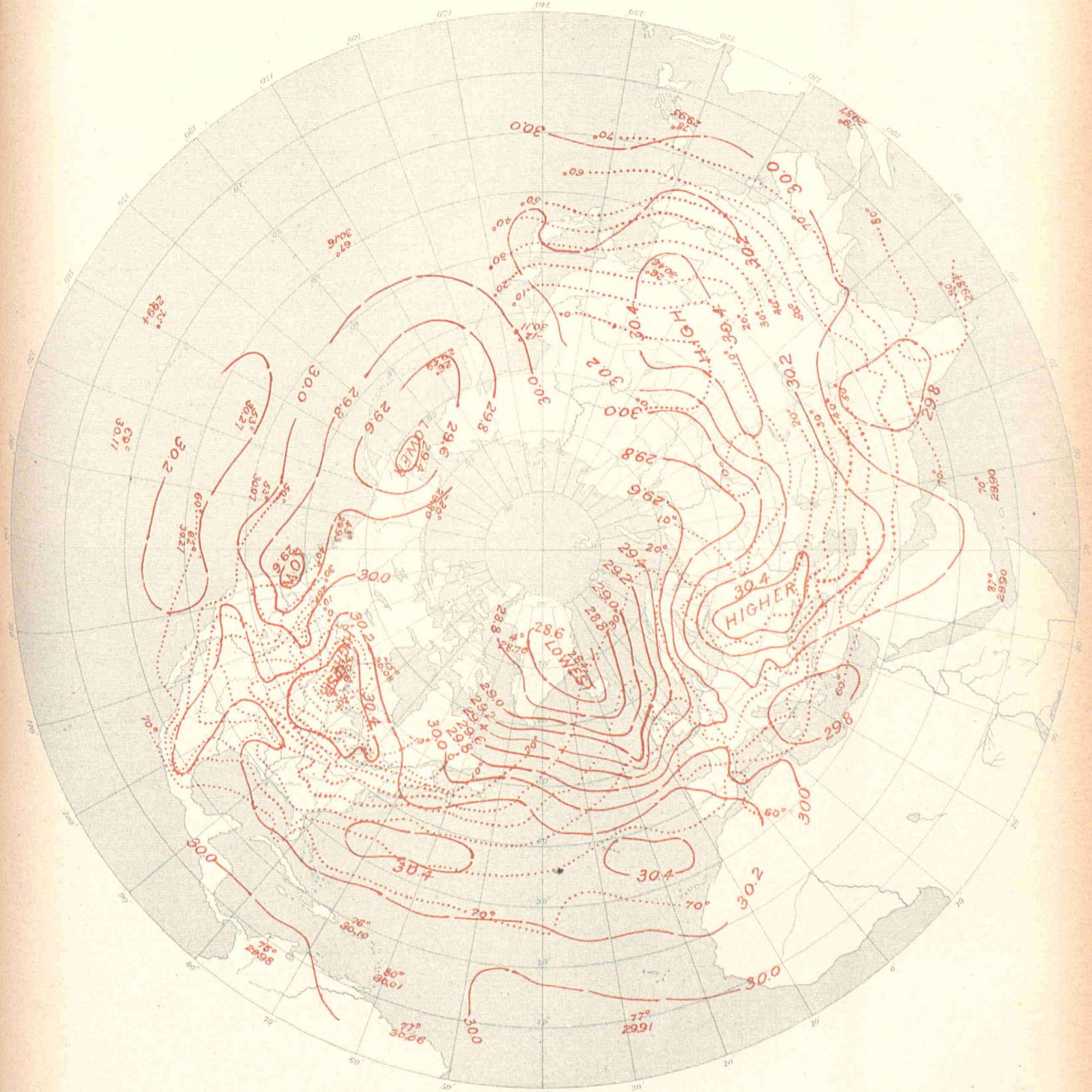
STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.16	766.1	30.18	766.6	69.0	20.6	93	ne.	7	3.1	.....	.....	10 ks	.....	ne.	0 12	3.0	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.34	770.6	30.36	771.1	38	3.3	73	w.	6	2.7	.....	1 k	1 s	w.	.....	0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.25	742.9	30.33	770.4	31.2	— 0.4	79	ne.	3	1.3	.....	0	3 s	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.71	754.6	30.55	776.0	— 5	—20 6	62	calm	0	0	.....	0	0	.....	.....	0.01	0.3	cloudy	S. C. Emery.
Leavenworth, Kansas	29.46	748.3	30.42	772.7	12	—11.1	80	ne.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	28.89	733.8	29.76	755.9	36.0	2.2	79	e.	6	2.7	.....	5 k	0	sw.	.....	0.03	0.8	fair	W. Bell.
Little Rock, Arkansas	29.86	758.4	30.19	766.8	40	4.4	89	s.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.79	756.7	30.19	766.8	41	5.0	76	n.	1	0.4	.....	2 c	0	w.	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.59	751.6	30.18	766.6	33.5	0.8	74	i.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.53	750.0	30.25	768.3	36	2.2	61	sw.	4	1.8	.....	0	4 s	.....	sw.	0	0	fair	Louis Duane.
Mackinaw City, Michigan	29.74	755.4	30.44	773.2	— 1.0	—18.3	68	calm	0	0	.....	0	0	.....	.....	0.12	3.0	clear	F. R. Day.
Macon, Fort, North Carolina	30.34	770.6	30.35	770.9	44.0	6.7	93	calm	0	0	.....	0	3 ks	.....	s.	0	0	clear	William Daly.
Madison, Wisconsin	29.41	747.0	30.50	774.7	— 7	—21.7	58	nw.	5	2.2	.....	0	0	.....	.....	inap.	inap.	clear	C. A. Shaw.
Maginnis, Fort, Montana	29.32	643.1	29.87	758.7	22	— 5.6	48	w.	6	2.7	.....	10 k	0	.....	.....	0.10	2.5	cloudy	F. Burke.
McKavett, Fort, Texas	27.81	706.4	30.20	767.1	43	6.1	76	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.68	753.9	30.46	773.7	1	—17.2	72	w.	8	3.6	.....	7 k	0	w.	.....	0.06	1.5	fair	J. Gilligan.
Memphis, Tennessee	29.85	758.2	30.21	767.3	46	7.8	68	se.	11	4.9	.....	.....	10 s	.....	se.	0	0	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.68	753.9	30.48	774.2	— 2	—18.9	54	n.	10	4.5	.....	0	1 s	.....	.....	inap.	inap.	clear	W. Line.
Missoula, Fort, Montana	26.43	671.3	29.89	759.2	28	— 2.2	70	w.	4	1.8	.....	.....	10 n	.....	.....	0.04	1.0	light snow	I. H. Young.
Mobile, Alabama	30.22	767.6	30.26	768.6	51.8	11.0	95	n.	5	2.2	.....	.....	10 ks	.....	sw.	0	0	cloudy	O. A. Read.
Montgomery, Alabama	30.05	763.3	30.29	769.4	43	6.1	76	se.	2	0.9	.....	0	4 k	.....	sw.	0	0	fair	J. B. McLaughlin
Moorhead, Minnesota	29.47	748.5	30.58	776.7	—32	—35.6	100	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.27	743.4	30.33	770.4	28.0	— 2.2	77	ne.	12	5.4	.....	.....	10 n	.....	.....	0.04	1.0	light snow	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.30	591.8	29.94	760.5	—13.0	—25.0	100	nw.	69	30.8	.....	.....	ton; fg	.....	nw.	0.31	7.9	light snow	S. W. Beall.
Nashville, Tennessee	29.62	752.3	30.23	767.8	46.0	7.8	54	sw.	3	1.3	.....	.....	10 k	.....	w.	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.10	764.5	30.22	767.6	25	— 3.9	64	n.	10	4.5	.....	.....	10 s	.....	sw.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.20	767.1	30.25	768.3	28	— 2.2	88	n.	6	2.7	.....	.....	10 s	.....	nw.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.19	766.8	30.25	768.3	55.0	12.8	93	se.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	L. Dunne.
Newport, Rhode Island	30.16	766.1	30.20	767.1	28.7	— 1.8	72	nw.	11	4.9	.....	.....	10 s	.....	nw.	0	0	cloudy	W. McGillivray.
New York, New York	30.08	764.0	30.26	768.6	30	— 1.1	67	ne.	1	0.4	.....	.....	10 s	.....	w.	0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	30.28	769.1	30.31	769.9	37	2.8	72	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.26	692.4	30.38	771.6	2.6	—16.3	78	ne.	6	2.7	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	E. F. Brady.
Olympia, Washington T'y	29.42	747.3	29.46	748.3	44.0	6.7	93	s.	12	5.4	.....	.....	10 n	.....	.....	1.00	25.4	light rain	J. Dascomb.
Omaha, Nebraska	29.26	743.2	30.52	775.2	— 1.3	—18.5	62	n.	6	2.7	.....	0	0	.....	.....	0.02	0.5	clear	A. Pollak.
Ooglaamie, Alaska	29.78	756.4	29.80	756.9	—20.0	—28.9	100	nne.	18	8.0	.....	hz.	fg.	.....	.....	0	0	clear	P. H. Ray.
Oswego, New York	29.95	760.7	30.30	769.6	15.5	— 9.2	83	nw.	10	4.5	.....	0	6 k	.....	nw.	0.07	1.8	fair	J. G. Linsley.
Palestine, Texas	29.63	752.6	30.21	767.3	54.0	12.2	86	s.	8	3.6	.....	0	7 k	.....	sw.	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.24	768.1	30.27	768.8	54.0	12.2	83	ne.	7	3.1	.....	0	8 s	.....	sw.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.15	765.8	30.20	768.6	32	0.0	78	nw.	7	3.1	.....	.....	10 s	.....	nw.	0	0	cloudy	T. T. Townsend.
Pike's Peak, Colorado	17.61	447.3	30.31	769.9	11	—11.7	73	w.	.....	.....	7	5 cs	0	w.	.....	0	0	fair	H. Hall.
Pioche, Nevada	24.04	610.6	30.24	768.1	37	2.8	58	s.	18	8.0	.....	.....	10 ks	.....	sw.	0	0	cloudy	O. N. Kitchel.
Pittsburg, Pennsylvania	29.48	748.8	30.34	770.6	22.0	— 5.6	94	n.	3	1.3	.....	.....	10 n	.....	.....	0.04	1.0	light snow	W. A. Reid.
Poplar River, Montana	27.72	704.1	30.07	763.8	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.22	767.6	30.22	767.6	52.6	11.4	92	ne.	6	2.7	.....	0	3s; fg	.....	sw.	0	0	clear	H. B. Boyer.
Port Huron, Michigan	29.69	754.1	30.42	772.7	5.6	—14.7	82	nw.	6	2.7	.....	8 c	0	.....	.....	0.12	3.0	cloudy	W. O. Bailey.
Portland, Maine	30.12	765.0	30.17	766.3	18.5	— 7.5	72	nw.	6	2.7	.....	0	5 s	.....	nw.	0.01	0.3	fair	W. W. Eichelberger.
Portland, Oregon	29.56	750.8	29.63	752.6	46.0	7.8	80	s.	16	7.2	.....	.....	10 s	.....	s.	0.29	7.4	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	43	0.1	93	sw.	.....	.....	2	0	2 ks	.....	.....	0	0	clear	F. S Colton.
Prescott, Arizona	24.86	631.4	30.24	768.1	21.3	— 5.9	76	sw.	2	0.9	.....	3 c	0	.....	.....	0	0	clear	W. H. Clendenon.
Provincetown, Mass	30.18	766.6	30.20	767.1	28	— 2.2	64	nw.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.23	767.8	30.24	768.1	60	15.6	93	ne.	9	4.0	.....	2 ck	0	sw.	.....	inap.	inap.	clear	W. J. Evans.
Red Bluff, California	29.09	754.1	30.05	763.5	42	5.6	100	nw.	5	2.2	.....	.....	10 s	.....	.....	0.70	19.3	cloudy	J. R. Williams.
Rochester, New York	29.62	752.3	30.33	770.4	11	—11.7	80	w.	13	5.8	.....	4 k	5 k	w.	w.	0.00	1.5	cloudy	E. W. McGann
Roseburg, Oregon	29.32	744.7	29.88	758.9	45.2	7.3	65	sw.	6	2.7	.....	0	7 s	.....	sw.	0.42	10.7	fair	J. J. Nanry.
Sacramento, California	30.03	762.7	30.11	764.8	48.4	9.1	93	s.	15	6.7	.....	.....	10 s	.....	sw.	0.21	5.3	cloudy	J. A. Barwick.
St. Louis, Missouri	29.68	753.9	30.32	770.1	18.7	— 7.4	88	n.	14	6.3	.....	.....	10 s	.....	n.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.31	744.5	29.34	745.2	27	— 2.8	100	s.	16	7.2	.....	.....	10 n	.....	.....	0.01	0.3	light snow	A. P. Leavitt.
St. Paul, Minnesota	29.62	752.3	30.57	776.5	—17.0	—27.2	100	sw.	1	0.4	.....	3 cs	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.58	751.3	30.56	776.2	—40	—40.0	100	s.	2	0.9	.....	2 cs	0	.....	.....	0	0	clear	C. B Dilley.
Salt Lake City, Utah	25.58	649.7	30.15	765.8	40	4.4	59	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.43	747.5	30.16	766.1	45.0	7.2	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	T. J. Kenan.
San Diego, California	30.08	764.0	30.16	766.1	45.2	7.3	100	ne.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.68	753.9	30.40	772 1	12.3	—10.9	87	n.	12	5.4	.....	.....	10 s	.....	n.	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.24	768.1	30.27	768.8	29.0	— 1.7	88	ne.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	B. A. Blundon.
San Francisco, California	30.06	763.5	30.13	765.3	54.5	12.5	96	sw.	5	2.2	.....	.....	10 n	.....	w.	1.26	32.0	light rain	N. Gorom.
Santa Fé, New Mexico	23.26	590.8	30.31	769.9	23	— 5.0	67	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.20	768.0	30.30	771.1	47	8.3	68	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.06	661.9	29.92	760.0	5	—15.0	76	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.96	761.0	30.21	767.3	44	6.7	93	s.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.81	731.8	30.14	765.5	29	— 1.7	77	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.38	619.2	30.24	768.1	31.0	— 0.6	74	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Sitka, Alaska	29.86	758.4	29.93	760.2	43.2	6.2	93	e.	6	2.7	.....	.....	10 s	.....	e.	0.02	0.5	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.64	752.8	30.14	765.5	30.0	2.2	89	calm	0	0	.....	.....	10 s	.....	s.	0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.30	769.6	30.34	770.0	47	8.3	86	s.	1	0.4	.....	3 k	0	w.	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.03	701.8	29.77	756.1	31.2	— 0.4	91	calm	0	0	.....	.....	10 s	.....	.....	0.10	2.5	cloudy	H. Clifford.
Springfield, Illinois	29.64	752.8	30.37	771.4	14	—10.0	80	ne.	15	6.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	T. B. Jennings.
Springfield, Missouri	28.71	729.2	30.23	767.8	30	— 1.1	78	ne.	11	4.9	.....	8 c	0	.....	.....	0	0	cloudy	J. H. Bryce.
Starkville, Miss	29.77	756.1	30.27	768.8	45	7.2	86	s.	9	4.0	.....	0	fg.	.....	.....	0	0	clear	C. Dill.
Stevenson, Fort, Dakota	28.33	719.6	30.39	771.9	— 7	—21.7	61	sw.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	W. Burrows.
Stockton, Fort, Texas	27.07	687.6	30.21	767.3	34	1.1	46	sw.	6	2.7	.....	0	c	.....	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass	30.14	765.5	30.20	767.1	25.5	— 3.6	75	w	16	7.2	.....	.....	10 s	.....	w.	0	0	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.42	696.5	30.25	768.3	28	— 2.2	77	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.66	753.4	30.40	772.1	15	— 9.4	83	ne.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	A. Buell.
Tucson, Arizona	27.69	703.3	30.19	766.8	38	3.3	57	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.39	746.5	29.78	756.4	31	— 0.6	88	e.	8	3.6	.....	1 c	0	.....	.....	0.19	4.8	clear	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	24.3	— 4.3	53	n.	.....	.....	1	2 cs	0	w.	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.98	761.5	30.25	768.3	44.9	7.2	90	se.	12	5.4	.....	0	0	.....	.....	0	0	clear	James Keneally.
Visalia, California	29.82	757.4	30.21	767.3	47.5	8.6	68	se.	2	0.9	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	O. D. Stewart.
Washakie, Fort, Wyoming	24.26	616.2	30.04	763.0	19.0	— 7.2	73	w.	4	1.8	.....	9 k	0	.....	.....	0	0	cloudy	T. M. Ambler.
Washington, D. C.	30.11	764.8	30.23	767.8	34.0	1.1	72	calm	0	0	.....	.....	10 s	.....	sw.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.08	662.4	30.22	767.6	10	— 8.9	61	W.	4	1.8	.....	10 cs	0	w.	.....	0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa	29.68	753.9	30.32	770.1	22.8	— 5.1	88	nw.	1	0.4	.....	.....	10 n	.....	.....	inap.	inap.	light snow	B. F. Hough.
Wilmington, N. Carolina	30.28	769.1	30.34	770.0	48	8.9	93	s.	4	1.8	.....	0	fg.	.....	.....	0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.48	647.2	30.02	762.5	44	0.7	71	sw.	10	4.5	.....	.....	10 n	.....	w.	0.17	4.3	light rain	J. Grover.
Yankton, Dakota	29.13	739.9	30.55	776.0	— 8	—22.2	88	calm	0	0	.....	0	0	.....	.....	0.12	3.0	clear	J. H. Atfield.
Yuma, Arizona	29.93	760.2	30.08	764.0	41.3	5.2	58	ne.	3	1.3	.....	1 c	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.02	559.3	.....	.....	53.0	11.7	82	calm	0	0	.....	7 k	2 s	n.	e.	0.25	6.3	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.09	764.3	30.10	764.5	71	21.7	82	n	1	0.4	.....	1 c	0	.....	.....	0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	77	25.0	82	e.	.....	.....	2	4 c	4 k	e.	.....	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.42	747.3	29.98	761 5	75	23.9	94	calm	.....	.....	0	5 cb	5 ks	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.01	15.5	.....	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Wallos.
York Factory B. A	30.01	762.7	30.08	764 0	—14.5	—25.8	72	W.	21	9.4	.....	0	0	.....	.....	0	0	clear	Forrescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from	
								Force.	Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																	
H. M. S. Amethyst, Port Stanley, Falkland Island†	29.77	756.1	42	5.6	87	sw.			3-6			s.				wsw.	showery.
H. M. S. Audacious, Hong-Kong, China	30.05	763.3	67	19.4	84	calm			0								d. clouds.
H. M. S. Boadicea, St Helena Island, Africa	30.04	763.0				ese.			2								d. clouds.
H. M. S. Champion, Singapore, Malay peninsula	29.87	758.7	79	26.1	90	var.			1		6	ne.					d. clouds.
H. M. S. Cleopatra, N. 31° 15′ E. 121° 29′	30.26	768.6	40	4.4	95	nnw.			2		10						raining.
H. M. S. Comus, S. 4° 40′, W. 81° 26′	30.00	762.0	70	21.1	95	sse.			2		2				1	s.	misty.
H. M. S. Constance, S. 19° 25′ W. 37° 00′	29.97	761.2	79	26.1	80	ne.			4		4	e.			4	nne.	d. clouds.
H. M. S. Curacoa, Yokohama, Japan	30.15	765.8	40.5	4.7	91	n.			2-3		10						raining.
H. M. S. Crocodile N. 13° 58′, E. 50° 10′	29.93	760.2	77	25.0	69	ene.			3		1				sm'h		blue sky.
H. M. Dock Yard, Bermuda, W. I.	30.40	772.1	59	15.0	88	nne.			1-2		10	nne.					overcast.
H. M. S. Dryad, N. 11° 20′, E. 87° 00′	29.90	759.4	83	28.3		ne.			3		5	ne.			3	ne	d. clouds.
H. M. S. Eclipse, N. 18° 54′, E. 72° 49′	29.70	754.4	78	25.6		ssw.			4-5		5						d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon, India.	29.84	757.9	80	26.7	78	ne.			1		2	ne.					blue sky.
H. M. S. Espeigle, S. 42° 26′ E. 148° 45′	29.72	754.9	65	18.3	78	ene.			1		10				2	ne.	overcast.
H. M. S. Fawn, S. 13° 37′, W. 8° 11′	30.00	762.0	74.5	23.6	85	ese.			3		2	ese.			1	ese.	d. clouds.
H. M. S. Flying Fish, N. 31° 05′, E. 127° 36′	30.07	763.8	57	13.9	87	w.			4		9				3	cf'd	d. clouds.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.04	763.0	61	16.1	82	calm			0		5						misty.
H. M. S. Heroine, S. 29° 30′ W. 25° 10′	29.82	757.4	77	25.0	86	nw.			3		3	nnw.			3	nne.	d. clouds.
H. M. S. Himalaya, N. 15° 02′, E. 42° 04′	29.87	758.7	84	28.9	61	ese.			1		0				1	ese.	blue sky.
H. M. S. Iron Duke, N. 30° 00′, E. 32° 33′	29.90	759.4	76	24.4	81	calm			0		0						blue sky.
H. M. S. Kingfisher, Callao Bay, Peru	30.00	762.0	67	19.4		calm			0		8						misty.
H. M. S. Lark, S. 34° 50′, E. 174° 49′	30.19	766.8	69.3	20.7	87	n.			2		5				sm'h		d. clouds.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.12	765.0	47.7	8.7	90	calm			0		10						raining.
H. M. S. Monarch, Port Said, Egypt	29.82	757.4	70	21.1	71	e.			1		0						blue sky.
H. M. S. Mutine, N. 17° 45′, W. 145° 15′	30.11	764.8	68.5	20.3		ne.			6		5				4	ene.	showery.
H. M. S. Rocket, Valdivia, Chili	30.24	768.1	54	12.2		ese.			1		3						d. clouds.
H. M. S. Serapis, N. 15° 15′, E. 57° 35′	29.90	759.4	69.5	20.8	73	nne.			4-5		3				4	n	misty.
H. M. S. Superb N. 35° 51′, E. 21° 59′	29.72	754.9	54	12.2	93	ssw.			6-7		4	sw.			7	ssw.	squally.
H. M. S. Swiftsure, Bay of Payta, Peru	30.00	762.0	67	19.4	94	e.			1		6				1	s.	d. clouds.
H. M. S. Sylvia, S. 53° 04′, W 73° 56′	30.08	764.0	43.2	6.2	83	wnw.			3-4		9						d. clouds.
H. M. S. Tourmaline, Bombay, India	29.84	757.9				sw.			3		3						d. clouds.
H. M. Tyne, N. 19° 20′, W. 17° 46′	30.21	767.3	64	17.8	67	ene.			3-4		0				2	ene.	blue sky.
H. M. S. Woodlark, Bushire, Persia	30.04	763.0	61.5	16.4	71	nw.			5		2	nw.			3	nw.	squally.
Portuguese Naval.																	
Tamega, Macao, China	30.12	765.1	66.2	19.0	81	calm			0		0		0	0			blue sky.
United States Naval.																	
Navy Yard, Pensacola, Fla*	30.31	769.9	55	12.8	86	ne	5	2.2			10		se.	0	0			fair.
Navy Yard, Portsmouth, N. H*	30.18	766.6	23	— 5.0	86	wnw.	18	8.0			10		w.	0	0			cloudy.
Naval Hospital, Yokohama, Japan*	30.12	765.0	37	2 8	75	n.			3		10		nne.	0.10	2.5			drizzling.
Adams, Sitka, Alaska†	29.57	751.1	40	4.4	81	se.			1		10		s.					cloudy.
Alaska, Mare Island, Cal	30.07	763.8	50	10.0	100	ssw.			1		10		sw.	0.21	5.3			light rain.
Alliance, Aspinwall, U. S. C.	29.95	760.7	79	26.1	90	ne.			3		5			light	light	sm'h		fair.
Brooklyn, Keel Point, Patagonia*	30.02	762.5	49	9.4	71	sw.	40	17.9			2		sw.	0.06	1.5	sm'h		fair.
Colorado, New York, N. Y.	30.34	770.6	29	— 1.7	100	nw.	3	1.3			10		w.	0	0			hazy.
Enterprise, N. 26° 16′, W. 35° 36′*	30.27	768.8	72	22.2	85	ese.			5		10		se.			long	ene.	cloudy.
Essex, Callao, Peru	29.96	761.0	68	20.0	79	se.			1		10							foggy.
Franklin, Norfolk, Va	30.31	769.9	36	2.2	70	ssw.	8	3.6			2		s.	0	0			fair.
Galena, Montevideo, Uruguay*	29.94	760.5	70	21.1	65	e.			4		2					long	sse.	fair.
Hartford, Callao, Peru*	29.94	760.5	66	18.9	100	sse.			1		10		sse.			sm'h	s.	foggy.
Independence, Mare Island, Cal	30.13	765.3	52	11.1	83	ssw.			4		10		sw.	0.65	16.5			rainy.
Iroquois, Callao, Peru	29.98	761.5	65	18.3	94	se.			2		10							foggy.
Jamestown, N. 34° 10′, W. 58° 45′	30.45	773.4	58	14.4	53	ne.			3		10		ne.			mod.	nw.	cloudy.
Juniata, N. 38° 32′ E. 2° 32′*	29.94	760.5	58	14.4	87	nw.			4		8		calm	0	0			cloudy.
Kearsarge, La Guayra, Venezuela	29.98	761.5	77	25.0	86	ene.			2		2		e.			long	ne.	fair.
Lancaster, Villefranche, France	29.88	758.9	37	2.8	90	e.			1		10		e.					light snow.
Michigan, Erie, Pennsylvania	30.33	770.4	20	— 6.7	69	e.			2		2		w.					fair.
Minnesota, New York, N. Y.	30.26	768.6	29	— 1.7	100	n.	6	2.7			10							hazy.
Monocacy, Nagasaki, Japan	30.13	765.3	52	11.1	86	n.			2		10		calm					misty.
New Hampshire, Newport, R. I.	30.21	767.3	30	— 1.1	78	nw.			4		10		calm			sm'h		cloudy.
Nipsic, N. 38° 30′, W. 9° 32′	30.38	771.6	56	13.3	87	nnw.			2		10		nw.			mod.	nw.	cloudy.
Onward, Callao, Peru*†	30.10	764.5	65	18.3	94	sse.			2		10		n.					foggy.
Palos, Tientsin, China*	30.37	771.4	25	— 3.9	100	w.			1		2		w.					fair.
Pensacola, Payta, Peru*	29.93	760.2	74	23.3	72	ene.	3	1.3			2			0	0	sm'h		clear.
Portsmouth, N. 35° 52′, W. 63° 06′	30.45	773.4	57	13.9	81	sw.			4		2		wsw.			sm'h	sw.	clear.
Powhatan, Boston, Mass	30.16	760.1	26	— 3.3	100	w.			1		10							cloudy.
Quinnebaug, Genoa, Italy	29.93	760.2	38	3.3	54	n.			3		8		calm					cloudy.
Ranger, N. 29° 19′, W. 115° 07′*	30.08	764.0	57	13.9	87	calm			0		0			0	0	sm'h		clear.
Richmond, Off Macao, China*	30.03	762.7	64	17.8	94	ese.			2		0			0	0			clear.
Saratoga, New York, N. Y.	30.23	767.8	29	— 1.7	88	nw.			1-2		10		nw.	0	0			overcast.
St. Louis, League Island, Pa.	30.24	768.1	28	— 2.2	100	wnw.	5	2.2			10			0	0			cloudy.
Tennessee, St. Thomas, W. I*	30.07	763.8	70	24.4	95	ene.	6	2.7			8		e.	0.07	1.8			showery.
Vandalia, N. 19° 53′, W. 70° 35′	30.09	764.3	76	24.4	100	sse.			3		8		s.					fair.
Wabash, Boston, Mass.	30.21	767.3	25	— 3.9	75	nw.	7	3.1			10		w.	0	0			cloudy.
Wachusetts, N. 30° 40′ W. 130° 55′	30.27	768.8	62	16.7	88	sw.			3		8					mod.		cloudy.
Wyandotte, Washington, D. C	30.35	770.9	36	2.2	90	ne.			1		10		e.	0	0			cloudy.
Yantic, N. 11° 15′ W. 82° 46′	30.06	763.5	77	25.0	95	ne.			4-5		8					mod	n.	squally.
Merchant Marine.																	
S. S. Grecian, N. 39° 56′ W. 12° 40′*	30.36	771.1	51	10.6	100	sw.			3		9		sw.	2 h'r	2 h'r	mod.	sw.	squally.
S. S. Scandinavian, N. 44° 11′, W. 54° 25	30.31	769.9	29	— 1.7		sw.			3		10		s.	snow	snow	high	w.	rain & snow
S. S. British Crown, N. 41° 16′, W. 65° 45′†	30.11	764.8	36	2.2		sw.			4		5		sw.	sleet	sleet	mod.	w.	fine.
S. S. Indiana, N. 41° 51′, W. 57° 59′			46	7.8	84	wsw.			3		10		sw.	snow	snow	r'gh	w.	squally.
S. S. Lord Clive, Philadelphia, Pa.	30.31	769.9				w.			2		0			0	0			fine.
S. S. Lord Gough, N. 50° 28′ W. 29° 01′	29.61	752.1	40	4.4		w.			6		5		wnw.	snow	snow	long	nw.	squally.
S. S. Ohio, N. 47° 58′, W. 38° 58′			30	2.2	90	w.			7		8		w.			hv'y	wnw.	snowing.
S. S. Pennsylvania, Philadelphia, Pa†	30.17	760.3	30	— 1.1	89	w.			2		10		n.	0	0			overcast.
S. S. Stella, N. 40° 55′ W. 66° 31′	30.18	766.6	47	8.3		w.			4		7		w.	0	0	3	w.	overcast.
S. S. Anchoria, N. 48° 26′, W. 39° 37′						w.			8		5		w.	sh'rs	sh'rs	h'vy	wnw.	snowing.
S. S. Bolivia, N. 52° 34′ W. 30° 56′	29.50	749.3	30	2.2	80	w.			4		10		w.	snow	snow	high	w.	snowing.
S. S. Dorian, N 39° 27′, W. 21° 46′*	30.20	767.1	61	16.1		w.			5		8		wnw.	sh'rs	sh'rs	long.	wnw	showery.
S. S. Utopia, N. 41° 27′, W. 64° 45 †	30.34	770.6	39	3.9		w.			5		8		w.	o	o	mod.	nw.	cloudy.
S. S. Ailsa, Kingston, Jamaica, W. I†	30.19	766.8	80	26.7	74	ne.			2		1		ne.	o	o	sm'h	e.	fair.
S. S. Antillas, N. 19° —′, W. 74° —†	30.25	768.3				ne.			4		4?		ne.	o	o	h'vy	ne.	cloudy.?
S. S. Ambrose, Manaos, Brazil†	30.02	762.5	78	25.6		calm			0		5?			7 h'r	7 h'r			cloudy.?
S. S. Landaff City, N. 51° 36′, W. 21° 45′†			44	6.7		w.			7		6		w.	sq'lls	sq'lls	h'vy	w.	squally.
S. S. Auckland, S. 35° 30′, W. 27° 25′	30.22	767.6	71	21.7	95	n.			3		6							blue sky.
S. S. British Merchant, N. 30° 58′, W. 125° 20′	30.32	770.1	59.4	15.2	91	w.			3		9							d. clouds.
S. S. Caldew, S. 30° 59′, E. 34° 04′	29.89	759.2	78	25.6	82	ene.			5		4							d. clouds.
S. S. City of Agra, S. 20° 50′, W. 29° 26′	29.26	743.2	81	27.2	78	ene.			5		3							d. clouds.
St. Kilda, N. 47° 30′ W. 18° 20′	29.68	753.9	53.3	11.8	93	w.			7		8							drizzling.
S. S. Scotia, Aden Arabia	29.90	759.4	87.4	30.8	62	sse.			3		3							blue sky
S. S. Lake Huron, N. 52° 50′, W. 5° 00′	29.37	749.0	39	3.9		wsw.			7		1		w.	o	o	mod.	w.	
S. S. Bothnia, N. 41° 25′, W. 64° 27′	30.15	765.8	45	7.2	92	w.			4		9			snow	snow	sm'h		cloudy.
S. S. Marathon, N. 45° 14′ W. 42° 30′			38	3.3		wnw.			6		7		wnw.	10 h'r	10 h'r	high	nw.	squally.
S. S. Parthia, N. 40° 29′ W. 66° 38′	30.35	770.9	43	6.1	92	w.			3		5		wsw.			sm'h	wsw.	drizzling.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																	
S. S. Pavonia, N. 50° 45′, W. 19° 11′	29.27	743.4	51	10.6	86	wnw.			6		8		w.	8 h'r	8 h'r	long	wnw.	squally.
S. S. Colina, Chesapeake Bay †	30.16	766.1				sw.			4		2		s.			sm. h		clear.
S. S. Rhiwladda, N. 51° 12′ W. 20° 16′ *†	29.40	746.7	47	8.3		w.			7		6		wsw.	6 h'r	6 h'r	r'gh	w.	stormy.
S. S. Canada, N. 40° 30′, W. 69° 45′	30.16	766.1	48.2	9.0		wsw.			4		ck	0	wsw.		0	sm'h	w.	covered.
S. S. France, N. 41° 38′, W. 66° 39′ †	30.21	767.3	46.4	8.0		w.			4			10?		wnw.	0	sm'h	nw.	clear?
S. S. Ville de Marseilles, Mayaguez, Puerto Rico, WI*†	30.15	765.8	86	30.0		wsw.			3			4		sw.	light	light		fair.
S. S. Abyssinia, N. 51° 09′, W. 18° 45	29.35	745.5	47	8.3	85	nw.			5			10		sw.	8 h'r	8 h'r	r'gh	nw.	hailing.
S. S. Wisconsin, N. 40° 25′ W. 70° 45′	30.07	763.8	34	1.1		wnw.			5			2		nw.	0	0	sm'h		clear.
S. S. Bohemia, Hamburg, Germany *†	29.87	758.7				se.			8			3		se.	0	0			fair.
S. S. Frisia, N. 41° 30′, W. 63° 00′	30.22	767.6				wsw.			3			7		w.	snow	snow	mod.	w.	fair.
S. S. Rugia, New York, N. Y	30.34	770.6																	
S. S. Silesia, Hamburg, Germany			29.2	—1.6		nw.			4			5?		nw.	0	0			cloudy.?
S. S. Vandalia, Hamburg, Germany	29.85	758.2	28.4	—2.0		se.			5			0							fair.
S. S. Wieland, N. 49° 55′, W. 28° 52′	29.75	755.6				nnw.			6			8		w	8 h'r	8 h'r	high	w.	fair.
S. S. Hevelius, S. 7° —′, W. 31° 30′†	30.12	765.0	82	27.8		se.			6			2		se.	0	0	sm'h		clear.
S. S. Ptolemy, S. 19° 47′, W. 37° 55′	30.04	763.0	80.5	26.9	78	ne.			6			5 k		wnw.	0	0			d. clouds.
S. S. Virginian, N. 45° 37′, W. 46° 43′ *	30.24	768.1	29	— 1.7		wsw.			6			6		wsw.	snow	snow	mod.	wsw.	cloudy.
S. S. Colorado, N. 28° 53′, W. 93° 26′†	30.21	767.3	60	15.6		ese.			3			3		ese.	0	0	mod.	ese.	fair.
S. S. Rio Grande, N. 23° 27′, W. 81° 10′†	30.13	765.3	78	25.6		ne.			3			5		ne.	sh'rs	sh'rs	long	ne.	cloudy.
S. S. San Marcos, N. 25° 40′, W. 80° 30′	30.12	765.0	72	22.2		ese.			4			7		sse.			sm'h		light rain.
S. S. Archimede, Messina, Sicily †	29.60	751.8	50	10.0	65	wnw.			2			5?		wnw.	0	0			cloudy?
S. S. Alleghany, N. 41° —′, W. 72° —′ †	30.38	771.6	40	4.4		n.			4			10			0	0			cloudy.
S. S. Chalmette, N. 25° 40′, W. 84° 34′ †	30.23	767.8	70	21.1		ene.			5			10		ene.	6 h'r	6 h'r	mod.	ene.	cloudy.
S. S. Lone Star, N. 28° 14′, W. 79° 48′ †	30.27	768.8	70	21.1		ene.			3			3		e.	4 h'r	4 h'r	mod.	ne.	fair.
S. S. Denmark, London, Eng†	29.59	751.6	42	5.6		w.			7			5?		w.	shr's	shr's			clear.?
S. S. Egypt, N. 47° 51′, W. 40° 31′*†	30.05	763.3				w.			7			10		w.	5 h'r	5 h'r	hv'y	w.	sleeting.
S. S. Erin, Queenstown, Ireland	29.53	750.0	40	4.4		sSW.			8			7		wsw.	6 h'r	6 h'r	mod.	wsw.	
S. S. Helvetia, Liverpool, Eng	29.49	749.0	37	2.8		nw.			7			8		nw.	rain	rain			showery.
S. S. Holland, N. 43° 53′, W. 50° 30′	30.21	767.3	32	0.0		w.			4			5		w.	snow	snow	mod.	w.	fine
S. S. City of Merida, N. 23° 15′, W. 84° 26′			75.2	24.0		ese.			3			5		ese.	3 h'r	3 h'r	cross	ne.;e.	fine.
S. S. America, N. 42° 12′, W. 62° 04′*	30.22	767.6	34.0	1.1	79	wsw.			3			6		w.	snow	snow	mod.	w.	cloudy.
S. S. Braunschweig, S. 27° 00′, W. 44° 53′	29.82	757.4	81.0	27.2	83	nne.			3			8		nne.	0	0	light	nne.	cloudy.
S. S. Gen. Werder, N. 49° 55′, W. 12° 10′	29.45	748.0				s.			6–7			10			3 h'r	3 h'r	hv'y	wnw.	light rain.
S. S. Hohenstaufen, S. 7° 59′ W. 28° 26′	29.91	759.7	77.0	25.0		ne.			4			9		ne.	0	0	mod.	n.	covered.
S. S. Hohenzollern, N. 21° 22′, W. 23° 01′	30.27	768.8				e.			0			2		e.			cross	e.	fair.
S. S. Neckar, N. 44° 50′, W. 43° 35′	30.39	771.9	32	0.0	90	wnw.			6–7			7		wnw.	hail	hail	high	wnw.	snow & hail.
S. S. Salier, N. 47° 01′ W. 45° 56′	30.20	767.1	26	— 3.3		W.			6			10		w.	snow	snow	h'vy	w.	snowing.
S. S. Strassburg, N. 43° 16′ W. 10° 12′	30.23	767.8	61.0	16.1	82	var.			3			8		w.	3 h'r	3 h'r	mod.	wnw.	cloudy.
S. S. Arabic, N. 36° 56′, W. 154° 12′ †*	30.27	768.8	53	11.7	80	wsw.			5			10		w.	0	0	mod.	w.	overcast.
S. S. Belgic, N. 31° 43′, E. 131° 53′*†	29.97	761.2	65	18.3	73	sw.			1			5		sw.	2 h'r	2 h'r	mod.	ne.	fair
S. S. Coptic, N. 42° 20′ W. 141° 00′	30.07	763.8	52.5	11.4	100	s.			5			10		sw.	2 h'r	2 h'r	mod.	sw.	overcast.
S. S. Gaelic, N. 22° 12 , E. 114° 13′	30.11	764.8	62	16.7	94	ene.			3			3		ne.	0	0	sm'h		clear.
S. S. Oceanic, San Francisco, Cal†	30.30	769.6	55	12.8	87	sw.			2										cloudy.
S. S. City of Augusta, New York, N. Y						sse.			6			10			snow	snow			snowing
S. S. Mississippi, N. 44° 10′, W. 124° 27′ *†	29.80	759.9	51	10.6		sW.			4			5		sw.			mod.	wsw.	fair.
S. S. Willamette, N. 45° 30′, W. 124° 30′			45	7.2	84	ssW.			7			10		sw.	0.08	2.0	high	sw.	cloudy.
S. S. Columbia, N. 44° 20′, W. 124° 25′†	29.70	754.4	49	9.4	89	sw.			6			4		sw.			h'vy	var.	fair.
S. S. Oregon, Portland, Oregon†	29.63	752.6	45	7.2	84	ssw.			5			8		ssw.					light rain.
S. S. Ancon, San Francisco, Cal†	30.10	764.5	55	12.8	93	ssW.			2			10		s.					rainy.
S. S. City of Chester, off Cape Mendocino, Cal *†	30.08	764.0	32	0.0	100	wnw.			2			10					h'vy	w.	raining.
S. S. G. W. Elder, Seattle, Wash. Ter			47	8.3	92	se.			4			4?			12 h'r	12 h'r			cloudy?
S. S. Orizaba, N. 35° 10′, W. 120° 43′*†	30.14	765.5	58	14.4	82	n.			0			0			0	0	long	sw.	clear.
S. S. Queen of the Pacific, N. 41° 02′, W. 124° 34′ †	30.05	763.3				ssW.			2			0						w.	
S. S. State of California, San Francisco, Cal †	30.10	766.1	52	11.1	100	calm			0			10			0	0			foggy.
S. S. Victoria, San Francisco, Cal*†	30.14	765.5	50	10.0		wsW.			3			5		wnw.					fair.
S. S. Australia, N. 15° 15′, W. 161° 28′*†	29.94	760.5	75	23.9	77	ene.			4			3		e.	0	0	long	e.	clear.
S. S. City of Pekin, N. 29° 18′ E. 172° 32′†	30.16	766.1	67	19.4	50	wsW.			3			8		w.			large	nw.	fair.
S. S. City of Rio de Janeiro, N. 16° 55′, W. 99° 48′			75	23.9	81	calm			0			0			0	0	sm'h		clear.
S. S. City of Sydney, Sydney, N. S. W †	29.81	757.2	68	20.0	79	W.			3			5		sw.	0	0	sm'h		fair.
S. S. City of Tokei, N. 34° 27′, E. 139° 40′†	30.24	768.1	42	5.6	74	n.			2			10		n.	0	0	small	ne.	cloudy.
S. S. Colon, N. 9° 50′, W. 79° 20′†	29.98	761.5	79	26.1		ne.			5			9		ne.	0	0	large	ne.	cloudy
S. S. Grenada, Panama, Panama †	29.94	760.5	74	23.3	90	nW.			1			8?		nw.	0	0	sm'h	nw.	clear?
S. S. San José, Manzanillo, Mexico *†	30.02	762.5				nnW.			2		5 c		nnw.		0	0	light	wnw.	
S. S. Zealandia, S. 33° 49′, E. 168° 12′ *	29.74	755.4	73	22.8	100	var.			2			1		ne.					fine.
S. S. Muriel, N. 33° 15′, W. 69° 35′ *	30.40	773.7	60	15.6		nne.			3			0			0	0	mod.	n.	clear.
S. S. Caracas, N. 17° 50′ W. 67° 36′ †	30.12	765.0	78	25.6	82	ne.			0			2		ne.	2 h'r	2 h'r	r'gh	ene.	fine.
S. S. Claudius, Colon, U. S. C. †	30.07	763.8	78.2	25.7	86	nne.			2			5		nne.	light	light	long	n.	fair
S. S. Valencia, N. 22° 30′, W. 68° 52′†	30.20	768.0	77	25.0	77	ene.			7			3		e.	1 h'r	1 h'r	h'vy	ene.	raining.
S. S. Belgenland, N. 44° 16′, W. 54° 50′ †	30.29	769.4	32	0.0	89	W.			4			9		w.	5 h'r	5 h'r	chop	var.	squally.
S. S. Nederland, N. 50° 32′, W. 0° 50′			54	12.2	87	wsW.			3			5?		w.	4 h'r	4 h'r	mod.	w.	cloudy?
S. S. Pennland, New York, N. Y	30.22	767.6	28	—2.2	91	nne.			3			10				0			fine.
S. S. Rhynland, N. 47° 00′, W. 46° 00′	30.26	768.6	31	—0.6	?	W.			7			7		w.			high	w.	snowy.
S. S. Switzerland, N. 50° 18′, W. 25° 14′†	29.62	752.3				W.			7			10		w.	8 h'r	8 h'r	h'vy	w.	cloudy.
S. S. Waesland, Antwerp, Belgium	29.68	753.9	33	0.6		s.			4			6		s.	0.75	19.0			fair.
S. S. Leerdam, N. 47° 10′, W. 38° 17′ *	30.00	763.5	40.5	4.7	78	W.			0			8		w.	rain	rain	h'vy	w.	showery.
S. S. Maas, Rotterdam, Holland	29.65	753.1	27.5	—2.5		sW.			4			10		ne	snow	snow			heavy snow
S. S. Schiedam, N. 40° 43′, W. 68° 50′	30.17	766.3	44.2	6.8	74	nW.			4			8		n.	0	0	mod.	nw.	cloudy.
S. S. W. A. Scholten, N. 47° 54′, W. 32° 23′			39.9	4.4	91	W.			8			7		wsw.	sq 'lls	sq 'lls	high	w.	stormy.
S. S. Zaandam, N. 50° 29′, W. 20° 00′	29.35	745.5	03	17.2		n. to w.			0			8 n		w.	4 h'r	4 h'r	0	w.	
S. S. State of Florida, New York, N. Y	30.09	764.3	33	0.6		nnW.			2			9		n.	0	0			cloudy.
S. S. State of Georgia, N. 52° 14′, W. 29° 30 ′†	29.52	749.8	30	2.2		W.			8			6		w.	hail	hail	r'gh	wnw.	squally.
S. S. Baltic, N. 44° 01, W. 54° 15′ *	30.29	769.4	30	—1.1		wsW.			3			10		wnw.	snow	snow	mod.	wnw.	snowing.
S. S. Germanic, N. 45° 53′, W. 39° 35′†	30.24	768.1	43	6.1		W.			6			4		w.	snow	snow	r'gh	w.	snowing.
S. S. Lepanto, Thames River, Eng			40	4.4		nW.			7			5		wnw.	snow	snow			fair.
S. S. Marengo, N. 46° 58′, W. 40° 00′*	30.00	762.0				wsW.			0			0		wsw.	3 h'r	3 h'r	h'vy	wsw.	squally.
S. S. Otranto, N. 50° 15′, W. 45° 27′†	30.01	762.2	22	—5.6		wsW.			9			10		sw.			long	w.	sleeting.
S. S. Romano, New York, N. Y *†	30.25	768.3	28	— 2.2		ne.			2			9		wsw.	0	0			cloudy.
S. S. Salerno, N. 42° 11′, W. 51° 41′	30.37	771.4	40	4.4		se.			4			5		w.	1 h'r	1 h'r	sm'h	w.	fine.
S. S. Aries, N. 40° 30′, W. 73° 10′ *†	30.20	767.1				nnW.			4			10			0	0	long	sw.	overcast.
S. S. Catherine Whiting, Barnegat, N. J†	30.31	769.9				nnW.			1					nw.	0	0	light	s.	
S. S. Norman, N. 39° 59′, W. 75° 08′						ne.			1					ne.	light	light			heavy snow
S. S. Saxon, N. 42° 10′, W. 70° 30′ †	30.13	765.3	29	— 1.7		wnW.			3			10		nw.	0	0			threatening.
MISCELLANEOUS																			
Bg. Abbie Clifford, Havana, Cuba, W. I†	30.19	766.8	70	21.1		e.			2			2			7 h'r	7 h'r			fair.
Schr. Abbie H Gheen, Spring Wood Mills, S. C†	30.39	771.9	50	10.0		sW.			3										raining.
Bg. Alcira, N. 24° 20′, W. 63° 57′	30.19	766.8				ene.			5			1		ene.	0	0	r'gh	e.	clear.
Bk. Alpha, Demerara, Brit. Guiana*†	29.96	761.0	80	26.7		ene.			4			2			0	0			fair.
Schr. Annie A. Holton, Tampico, Mexico†	30.13	765.3	71	21.7		wsW.			2			2		w.	0	0	sm'h		clear.
Bg. Annie R. Storer, S. 23° 04′, W. 43° 03′*	30.10	764.5				ene.			2			0			0	0	mod.	ese.	fair.
Bk. Anna Thormann, S. 10° 41′ W. 13° 48′	30.04	763.0	78.3	25.7	68.3	ese.			3			4 k		ese.	0	0	mod.	se.	fair.
S. S. Antonio Lopez, Barcelona, Spain	29.91	759.7	49	9.4	57	e.			7			7			0	0			fair.
Bg. Arthur, S. 28° 34′, W. 47° 57′*†	29.94	760.5				nne.			4			2		ne.	0	0	mod.	ne.	
Schr. Annie R. Lewis, N. 24° 00′, W. 60° 53′			76	24.4		ene.			5			8		ene.	0	0	hv'y	ese	fair.
Bk. B. F. Watson, Hong Kong, China†	30.01	762.2	68	20.0		ne.			2			2		ene.	0	0			clear.
Bg. Belle of the Bay, Galveston, Texas†	30.15	765.8				ese.			5			3		se.	0	0			foggy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Bkt. Bonny Doon, N. 26° 08′, W. 34° 00′*†	30.18	766.6	.....	.....	.....	sse.	.....	.....	4	.....	5?	.....	se.	0	0	long	ese.	cloudy.?
Bk. Bremen, N. 24° 06′, W. 35° 42′*	30.13	765.3	.....	.....	.....	ene.	.....	.....	5	.....	8	.....	ene.	rain	rain	cross	var.	sprinkling.
Bk. Champion, Philadelphia, Pa	.....	.....	42	5.6	.....	n.	.....	.....	3	.....	8	.....	n.	0	0	.....	.....	fair.
Bk. Commerce, N. 36° 34° W. 7° 53′†	30.23	767.8	60	15.6	.....	nw.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	w.	fine.
S. Cornelius, N. 53° 48′, E. 3° 27′*†	29.54	750.3	41.0	5.0	.....	ssw.	.....	.....	9	.....	10	.....	ssw	8 h'r	8 h'r	r'gh	ssw.	cloudy.
Bkt. C. S. Bushnell, N. 37° 24′, W. 63° 55′	.....	.....	.....	.....	.....	wsw	.....	.....	5	.....	2	.....	wsw.	0	0	sm'h	w.	fine.
S. S. D. J. Foley, N. 10° 24′, W. 78° 42′ *†	29.95	760.7	80	26.7	78	ne.	.....	.....	6	.....	5	.....	nne.	2 h'r	2 h'r	r'gh	ne.	fair.
S. E. B. Sutton, N. 21° 00′, W. 35° 00′ †	30.15	765.8	75	23.9	84	ese.	.....	.....	5	.....	5	.....	.....	0	0	h'vy	var.	hazy.
Bk. E. D. Bigelow, N. 43° 41′, W. 28° 50′*†	30.05	763.3	.....	.....	.....	wnw.	.....	.....	9	.....	2	.....	wnw.	0	0	long	wnw.	fair.
Schr. Edith R. Seward, N. 28° 55′, W 70° 56′†	30.39	771.9	63	17.2	.....	ene.	.....	.....	2	.....	6?	.....	e.	0	0	r'gh	e.	clear.?
Bk. Edmund Phinney, S. 31° 58′, W. 42° 52′ †	28.88	733.5	75	23.9	.....	wnw.	.....	.....	2	.....	10	.....	nw.	9 h'r	9 h'r	long	ne.	threatening.
S. E. J. Spicer, N. 49° 58′. W 18° 57′	29.45	748.0	54	12.2	93	nw.	.....	.....	9	.....	10	.....	nw.	hv'y	hv'y	high	nw.	rain & hail.
Bk. E. L. Pettingill, S. 54° 00′, W. 81° 48′*†	30.10	764.5	50	10.0	.....	nw.	.....	.....	4	.....	10	.....	w.	0	0	long	sw.	
Bk. Essex, S. 15° 16′, E. 43° 08′ *†	29.60	751.8	83	28.3	.....	nnw.	.....	.....	8	.....	.....	.....	.....	rain	rain	large	wnw.	
Schr. F. E. McDonald, Jacksonville, Fla	.....	.....	43	6.1	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	fine.
S. Festina Lente, N. 53° 58′, E. 2° 35′	29.44	747 8	42	5.6	.....	wnw.	.....	.....	5	.....	10	.....	wnw.	5 h'r	5 h'r	mod.	s.	cloudy.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†.	30.25	768.3	39	3.9	82	sw.	.....	.....	1	.....	10	.....	calm	.....	.....	.....	.....	cloudy.
S. S. Foscolia, N. 53° 50′, W. 0° 02′	.....	.....	.....	.....	.....	wsw.	.....	.....	5	.....	0	.....	.....	2 h'r	2 h'r	.....	.....	clear.
Bk. Freya, Matanzas, Cuba, W. I	.....	.....	.....	.....	.....	ne.	.....	.....	4	.....	5	.....	ne.	3 h'r	3 h'r	.....	.....	clearing.
Bg. Gipsey Queen, N. 18° 00′, W. 61° 55′	30.00	762.0	79	26.1	.....	ene.	.....	.....	6	.....	2	.....	ne.	0	0	chop	s.	clear.
S. Grecian, N. 24° 23′, W. 38° 30°†	30.18	766.6	70	21.1	95	se.	.....	.....	6	.....	2	.....	ne.	0	0	h'vy	ne.	fair.
Bk. Grey Eagle, S. 12° 38′, W. 35° 40′*†	29.90	759.4	.....	.....	.....	ne.	.....	.....	6	.....	5	.....	e.	sq'lls	sq'lls	rg'h	ene.	fair.
Bk Hattie G. McFarland, N. 8° 30′, W. 58° 10′ *†	30.06	763.5	78	25.6	.....	calm	.....	.....	2	.....	10	.....	.....	4 h'r	4 h'r	h'vy	e.	clearing.
Schr. Hattie Weston, Port of Spain, Trinidad, W. I*†	30.08	764.0	78	25.6	.....	e.	.....	.....	0	.....	3	.....	sw.	0	0	sharp	nne.	
Bk. Heinrich & Tonio, N. 30° 25′, W. 35° 26′	.....	.....	70.5	21.4	.....	ese.	.....	.....	2	.....	2	.....	e.	1 h'r	1 h'r	sm'h	.....	fair.
Bk. Horace Scudder, N. 31° 32′, W. 74° 12′ *†	30.40	772.1	62	16.7	.....	sse.	.....	.....	3	.....	0	.....	.....	0	0	mod.	ese.	clear.
Schr. Isabel Alberto, New York, N. Y †	30.30	769.6	.....	.....	.....	n.	.....	.....	2	.....	2	.....	w.	.....	.....	light	w.	
Schr. James Slater, N. 16° 52′, W. 45° 56*†	29.95	760 7	76	24.4	.....	calm	.....	.....	2	.....	10	.....	nw.	0	0	.....	.....	cloudy.
Bk. Johanne, N. 18° 05′, W. 40° 58′ *†	29.92	760.0	74	23.3	.....	ssw.	.....	.....	0	.....	0	.....	.....	1 h'r	1 h'r	long	ne.	clear.
Schr. John L. Thomas, N. 14° 11′, W. 71° 58′ *†	30.10	764.5	.....	.....	.....	ene.	.....	.....	6	.....	5	.....	var.	3 h'r	3 h'r	cross	var.	fine.
Bkt. Josephine, S. 33° 28′, W. 15° 55′†	30.27	768.8	77	25.0	73	sse	.....	.....	3	.....	2	.....	ene.	¼h'r	¼h'r	h'vy	e.	clear.
S. S. J. W. Wilson, Galveston, Texas *†	30.12	765.0	56	13.3	.....	se.	.....	.....	4	.....	8	.....	sse.	½h'r	½h'r	sm'h	.....	fair.
Light House Tender Laurel, Tampa Bay, Fla †	30.25	768.3	61	16.1	.....	n.	.....	.....	1	.....	fg	.....	.....	0	0	.....	.....	foggy.
Bg. Lilian, N. 23° 27′, W. 68° 18′†	30.27	768.8	75	23.9	.....	ene.	.....	.....	1	.....	4	.....	n.	0	0	.....	.....	clear.
Bk. Louise Adelaide, Off Havana, Cuba, W. I	.....	.....	.....	.....	.....	e.	.....	.....	6	.....	9	.....	e.	1½h'r	1½h'r	cross	var.	light rain.
S. S. Malabar, N. 34° 56′, W. 45° 43′ *†	30.35	770.9	.....	.....	.....	ne.	.....	.....	2	.....	7	.....	e.	6 h'r	6 h'r	rg'h	ene.	cloudy.
Bk. Mary A. Troop, N. 43° 40′, W. 24° 10′†..	30.02	762.5	.....	.....	.....	wnw.	.....	.....	5	.....	5	.....	ne.	0	0	mod.	nw.	hazy.
Schr. Minnie A. Bonsall, Mayport, Fla †.	30.12	765.0	62	16.7	.....	nne.	.....	.....	5	.....	8	.....	wnw.	0	0	rg'h	nw.	hazy.
S. M. P. Grace, S. 16° 41′, W. 27° 08′ *....	30.03	762.7	80	26.7	.....	e.	.....	.....	6	.....	2	.....	e.	0	0	short	e.	squally
Bg. Myrtle, Barbadoes, W. I *†	29.90	759.4	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	4 h'r	4 h'r	.....	.....	clear.
Bkt. Norena, Matanzas, Cuba, W. I*†	30.26	768.6	.....	.....	.....	ne.	.....	.....	3	.....	5	.....	nne.	6 h'r	6 h'r	mod.	.....	fine.
Bg. O. C. Clary, N. 38° 21′, W. 73° 21′*†	30.25	768.3	.....	.....	.....	w.	.....	.....	3	.....	1	.....	w.	.....	.....	.....	sw.	clear.
Schr. Ocean Traveler, N. 24° 30′, W. 61° 30′ †	30.19	766.8	.....	.....	.....	ene.	.....	.....	6	.....	5	.....	.....	.....	.....	h'vy	e.	fair.
Bk. Ottawa, Alicante Harbor, Spain*	29.90	759.4	68	20.0	.....	nw.	.....	.....	7	.....	3	.....	nw.	0	0	.....	.....	clear.
S. Paramita, San Francisco, Calf	30.18	766.6	42	5.6	.....	ne.	.....	.....	5	.....	.....	.....	.....	0	0	.....	.....	clear.
S. S. Peconic, N. 49° 40′, W. 15° 30′*†	29.10	739.1	51	10.6	.....	wsw.	.....	.....	8	.....	.....	.....	w.	4 h'r	4 h'r	h'vy	var.	misty.
S. S. Raleigh, Matanzas, Cuba, W. I*†	30.08	764.0	70	21.1	.....	ne.	.....	.....	2	.....	4	.....	ne.	2 h'r	2 h'r	sm'h	.....	
Bk. Reindeer, Martinique, W. I *	30.16	766.1	.....	.....	.....	ene.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	squally.
S. Rudolph, N. 44° 55′, W. 27° 32′	.....	.....	52.0	11.1	.....	wnw.	.....	.....	6	.....	9	.....	var.	3 h'r	3 h'r	h'vy	wnw.	cloudy.
S. Sacramento, S. 29° 25′, W. 31° 31′ *†	30.27	768.8	84	28.9	82	e.	.....	.....	5	.....	5	.....	e.	0	0	mod	e.	fine.
Bk. Saga, N. 37° 20′, W. 66° 02′	.....	.....	56	13.3	.....	sw.	.....	.....	9	.....	5	.....	sw.	3 h'r	3 h'r	h'vy	var.	raining.
Schr. S. B. Hubbard, Mayport, Fla *†	30.33	770.4	50	10.0	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	fine.
Bk. Southern Belle, N. 26° 00′, W. 66° 30′*†	30.20	767.1	72	22.2	.....	ene.	.....	.....	4	.....	2	.....	ene.	0	0	rg'h	n.	clear.
S. Sovereinn of the Seas, S. 18° 45′, W. 123° 14′ *†	30.18	766.6	77	25.0	91	e.	.....	.....	3	.....	2	.....	e.	0	0	long	sw.	clear.
Bk. Sunbeam, Lisbon, Portugal*†	30.36	771.1	66	15.6	94	nw.	.....	.....	4	.....	5	.....	nw.	0	0	.....	.....	fair
S. S. Sunbeam, N. 50° 02′, W. 8° 31′	29.71	754.6	51	10.6	79	ssw.	.....	.....	2	.....	10	.....	ssw.	4 h'r	4 h'r	4	wsw.	overcast.
S. Titan, N. 4° 23′, W. 29° 21 *†	30.00	762.0	.....	.....	91	e.	.....	.....	4	.....	7	.....	e	2 h'r	2 h'r	mod.	nnw.	fair.
Bk. Wandering Jew, Montevideo, Uruguay †	30.09	762.0	71	21.7	.....	ese.	.....	.....	4	.....	2	.....	ese.	4 h'r	4 h'r	.....	.....	clear.
Schr. Wm. Wiler, N. 22° 47′, W. 63° 30′†	30.16	766.1	.....	.....	.....	ene.	.....	.....	6	.....	5	.....	ene.	2 h'r	2 h'r	rg'h	e.	squally.
Bk. Xenia, N. 5° 18′ W. 27° 22′*†	30.03	7627.	82	27.8	.....	ene.	.....	.....	5	.....	3	.....	ene.	0	0	sm'h	ene.	clear.

International Chart I. January 25, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B.Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 26, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.22	767.6	60.1	15.6	73	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.04	763.1	63.7	17.6	63	w.	.....	.....	5	.....	4	.....	.....	0	0	cloudy	Thève.
La Calle	.....	.....	29.98	761.6	56.8	13.8	78	w.	.....	.....	3	.....	3	.....	.....	0.433	11.0	pretty fair	Fonfrède.
Tunis	.....	.....	29.92	759.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.20	767.0	57.9	14.4	83	w.	.....	.....	5	.....	4	.....	.....	0	0	cloudy	Pérès.
Tebessa	.....	.....	30.08	764.1	49.3	9.6	74	nnw.	.....	.....	3	.....	2	.....	.....	0.630	16.0	fair	Dognon.
Geriville	.....	.....	.....	.....	54.3	12.4	52	nnw.	.....	.....	4	.....	1	.....	.....	0	0	very fair	Lonchamp.
Laghouat	.....	.....	30.17	766.3	59.4	15.2	53	nw.	.....	.....	2	.....	2	.....	.....	0	0	fair	Abraham.
Biskra	.....	.....	30.10	764.5	70.2	21.2	46	nnw.	.....	.....	2	.....	2	.....	.....	0	0	fair	Malau.
Australian.																			
Melbourne, Victoria	29.92	759.9	30.01	762.2	60.8	16.0	63	sw.	16	7.2	.....	.....	8	.....	.....	0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.32	744.8	29.90	759 5	30.6	— 0.8	92	sw.	.....	.....	2	.....	10	.....	.....	0.008	0.2	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.02	737.1	29.82	757.5	27.7	— 2.4	89	ne.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	28.96	735.6	29.88	758.9	32.0	0.0	78	calm	.....	.....	0	.....	10 s	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.58	725.8	29.89	759.1	28.0	— 2.2	82	sw.	.....	.....	2	.....	0	.....	.....	0.083	2.1	.....	Andreas Rospini.
Hermannstadt	28.41	721.5	29.89	759.1	33.8	1.0	79	ese.	.....	.....	3	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.20	717.8	29.70	754.4	14.9	— 9.5	84	calm	.....	.....	0	.....	2	.....	.....	0.091	2.3	clear	The Staff.
Lemberg	28.93	734.8	29.98	761.5	25.3	— 3.7	67	se.	.....	.....	3	.....	3	.....	.....	0	0	solar corona	Dr. T. Stanecki.
Neu Schmecks	26.44	671.5	29.86	758.4	37.4	3.0	.....	calm	.....	.....	0	.....	4	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	29.75	755.6	29.87	758.6	38.1	3.4	90	w.	.....	.....	1	.....	4	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.37	745.9	29.82	757.5	42.3	5.7	26	s.	.....	.....	3	.....	3	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.59	751.6	29.88	759.6	36.7	2.6	82	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.77	756.2	29.87	758.7	38.5	3.6	54	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	Royal Academy.
Vienna	29.05	737.8	29.80	756.8	29.5	— 1.4	84	se.	.....	.....	3	.....	8	.....	.....	0.043	1.1	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	28.56	725.4	28.66	728.5	34.0	1.1	95	nw.	19	8.5	.....	.....	10	.....	.....	0.135	3.4	rain & snow	W. Boswell
Armagh, Observatory	28.89	733.8	29.13	739.9	34.2	1.2	85	sw.	16	7.2	.....	.....	10	.....	.....	.....	.....	snowing	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.05	737.9	38.2	3.4	63	w.	56	25.0	.....	.....	3	.....	.....	.....	.....	blue sky	John Hartnup.
Bolton, Sharples	28.51	724.1	29.04	737.6	37.0	3.1	71	w.	49	21.9	.....	.....	8	.....	.....	.....	.....	.....	Thomas Mackereth.
Bradford, Yorkshire	28.55	725.2	28.95	735.3	37.6	3.1	72	sw.	.....	.....	5	.....	5	.....	.....	0.20	5.1	d. clouds	McLandsborough&Preston.
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	80.0	26.7	69	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington	.....	.....	.....	.....	42.0	5 6	61	w.	.....	.....	8.0	.....	1	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E	29.14	740 1	29.27	743.4	43.5	6.4	92	w.	.....	.....	3	.....	4	.....	.....	blank	blank	d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.26	743.2	29.50	749.3	38.0	3.3	88	w.	.....	.....	5	.....	10	.....	.....	.....	.....	rain & hail	The Staff.
Fort Napier, Natal	27.58	700.5	29.80	756.9	69.0	20.6	56	se.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	Corpl. F. Milner, A. H. C.
Galway	29.20	741.7	29.24	742.7	36	2.2	80	wsw.	.....	.....	4	.....	10	.....	.....	0.62	15.7	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.29	769 4	30.36	771.1	58.0	14.4	96	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Sgt. J. Norris, A. H.C.
Glasgow, Observatory	28.67	728.2	28.88	733.5	36.8	2.7	66	wnw.	.....	.....	5	.....	10	.....	.....	.....	.....	overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.10	739.1	29.28	743.7	42.3	5.7	45	wsw.	.....	.....	7	.....	0	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	29.22	742.2	29.52	749.8	41.0	5.0	91	wsw.	.....	.....	5	.....	10	.....	.....	blank	blank	overcast	A. Collenette, F. M. S.
Kew, Observatory	29.25	742.9	29.29	744.0	42.0	5.6	45	w.	29.	13.0	.....	.....	4	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	28.86	733.0	29.12	739.6	41.2	5.1	46	w.	.....	.....	3	.....	2	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.90	759.4	29.98	761.5	53.0	11.7	79	nw.	.....	.....	2	.....	6	.....	.....	0.09	2.3	d. clouds	Corpl. Keene, A. H. C
Nassau, Bahamas	30.14	765.5	30.18	766.6	69.2	20.7	100	e	.....	.....	1	.....	10	.....	.....	.....	.....	raining	C. S. Duncombe
Oscott, St. Mary's College	28.60	726.4	29.12	739.6	40.6	4.8	59	w.	.....	.....	8	.....	6	.....	.....	.....	.....	d. clouds	Rev. Jas. W. Browne
Oxford, Radcliffe Obs'y	29.03	737.1	29.26	743.2	40.3	4.6	61	wsw.	.....	.....	6	.....	1	.....	.....	.....	.....	squally	The Staff.
Plymouth	29.30	745 7	29.44	747.8	41.0	5.0	83	w.	.....	.....	5	.....	10	.....	.....	.....	.....	raining	John Merrifield.
Sandwick Manse, Orkneys	28.71	729.2	28.82	732.0	33.9	1.1	100	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	snowing	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.00	751.8	29.66	753.4	46.8	9.3	74	s.	.....	.....	1	.....	9	.....	.....	blank	blank	gloomy	W. H. Lyne.
Sheffield	28.78	731.0	29.06	738.1	38.4	3.0	67	wsw.	.....	.....	6	.....	9	.....	.....	0.23	5.8	overcast	W. F. Cooper.
Silloth Rectory	28.91	734.3	28.94	735.1	35.5	1.9	87	nw.	.....	.....	6	.....	10	.....	.....	0.140	3.6	snowing	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.03	737.3	38.0	3.3	67	w.	47	21.0	.....	.....	7	.....	.....	blank	blank	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.10	739.1	29.32	744.7	40.7	4.8	73	w.	.....	.....	3-4	.....	3	.....	.....	.....	.....	squally	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.40	748.3	29.50	749.3	42	5.6	83	w.	.....	.....	7	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.40	746 7	29.43	747.5	47.7	8.7	78	w.	28	12.5	.....	.....	7	.....	.....	blank	blank	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	— 9	—22.8	.....	calm	0	0	.....	0	0	.....	.....	0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.32	770.1	30.37	771.4	— 3	—19.4	100	sw.	5	2.2	.....	0	0	.....	.....	0.050	1.3	clear	H. J. Cundall, C. E
Chatham, N. B*	30.31	769 9	30.38	771.6	— 9	—22.8	100	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. A. Blair
Cornwall	30.30	769.6	30.54	775.7	—21.0	—29.4	100	w.	.....	.....	1	0	0	.....	.....	0	0	blue sky	Jas. Smith, M. A.
Dalhousie	30.27	768.8	30.32	770.1	— 4.5	—20.3	.....	w.	.....	.....	3	0	0	.....	.....	0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.29	769.4	30.31	769.9	0	—17.8	87	sw.	18	8.0	.....	5 c	5 s	w.	w.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.92	734.6	29.84	757.9	0	—17.8	100	s.	30	13.4	.....	10 s	.....	s.	.....	0	0	cloudy	James Stewart.
Fredericton	30.40	772.1	30.48	774.2	—22.9	—30.5	100	calm	0	0	.....	0	5 s	.....	.....	0	0	fair	Prof. Harrison, L. L. D.
Granton	29.24	742.7	30.54	775.7	—15.9	—26.6	89	calm	0	0	.....	0	1 s	.....	.....	0	0	d. clouds	Jas. Grant.
Halifax, N. S*	30.31	769.9	30.45	773.4	3	—16.1	100	w	3	1.3	.....	0	hz.	.....	.....	inap.	inap.	hazy	A. Allison.
Hamilton	30.04	763 0	30.48	774.2	0.2	—17.7	39	sw.	.....	.....	1	0	0	.....	.....	0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	30.15	765.8	30.54	775 7	—12	—24.4	82	ne.	3	1.3	.....	5 ck	2 s	sw.	calm	0	0	fair	A. P. Knight, M. A
Montreal, Quebec*	30.31	769.9	30.55	776.0	—11	—23.9	100	w.	0	2.7	.....	.....	10 n	.....	.....	0	0	hazy	C. H. McLeod, C. E.
Ottawa	30.25	768.3	30.55	776.0	—25.2	—31.8	100	calm	.....	.....	0	0	0	.....	.....	0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.68	753.9	30.53	775.4	—29	—33.9	94	calm	0	0	.....	0	0	.....	.....	0	0	clear	Rev. E. Mosley.
Peterboro	29.71	754.6	30.61	777.5	—23.9	—31.1	19	calm	.....	.....	0	0	0	.....	.....	0	0	fine	J. Dixon, B. A.
Port Dover, Ontario	29.66	753.4	30.45	773.4	— 3	—19.4	100	n.	9	4.0	.....	0	0	.....	.....	0	0	clear	H. Morgan.
Port Stanley, Ontario	29.74	755 4	30.47	773.9	1	—17.2	79	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	M. Payne.
Quebec, Quebec*	30.15	765.8	30.52	775.2	—11	—23.9	100	w.	.....	.....	1	0	2 c	.....	.....	0	0	fair	Capt. Ashe, R. N
Rockliffe, Ontario*	30.01	762 2	30.57	776.5	—29	—33.9	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.68	753.9	30.52	775 2	—14	—25.6	95	calm	0	0	.....	0	0	.....	.....	0	0	clear	
St. Andrews, N. B	30.40	772.1	30.46	773.7	0	—17.8	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	
St. John, N. B	30.29	769.4	30.47	773.9	2.0	—16.7	100	n.	5	2.2	.....	0	0	.....	.....	0	0	blue sky	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.12	765.0	14.0	—10.0	.....	nw.	.....	.....	6	.....	.....	.....	.....	0	0	.....	The Commandant.
Stratford	29.06	738.1	30.57	776.5	—10.4	—26.9	94	calm	0	0	.....	0	0	.....	.....	0	0	blue sky	C. J. Macgregor, M. A.
Sydney, C. B*	30.26	768.6	30.33	770.4	— 1	—18.3	100	sw.	5	2.2	.....	0	0	.....	.....	0.02	0.5	clear	T. C. Hill, C. E.
Toronto, Ontario*	30.06	763 5	30.50	774.7	— 2	—18.9	87	n.	9	4.0	.....	2 k	5 ks	n.	nw.	0	0	fair	Magnetic Observatory.
Windsor	30.30	769.6	30.41	772.4	— 2.0	—18.9	100	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	Prof. W. H. Butler.
Woodstock	29.32	744.7	30.49	774.4	—11.4	—24.1	95	n.	3	1.3	.....	0	0	.....	.....	0	0	foggy	Prof. Wolverton, M. A.
Yarmouth, N. S*	30.39	771.9	30.46	773.7	8	—13.3	70	e.	1	0.4	.....	0	5 k	.....	w.	inap.	inap.	fair	Lt. F. E. Winnet, R. A.
Cape Colony.																			
Cape St. Francis Lt. House	30.08	764.0	30.11	764 8	71.0	21.7	78	ese.	9.1	4.1	.....	0	1 k	.....	.....	0.030	0.8	clear	John Duthie.
Springbok Fontein	27.88	708.1	.....	.....	79	26.1	40	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction Upper. From.	Clouds. Direction Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	OBSERVERS
CHINESE (*Sub-series*).																			
Sung-shu-chwang	24.39	619.5	.....	.....	19.0	— 7.2	.....	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.27	768.8	30.38	771.6	24.6	— 4.1	84	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	Mission, S. J.
Zi-Ka-Wei, near Shanghai	30.37	771.3	30.39	772.0	31.8	— 0.1	99	wnw.	0.9	0.4	.....	0	0	.....	.....	0.201	5.1	clear	M. Marc Dechevrens, S.J
DANISH.																			
Copenhagen	29.23	742.4	29.28	743.6	28.9	— 1.7	80	sse.	31	14	.....	.....	10	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	28.93	734.7	28.95	735.2	30.0	— 1.1	100	sse.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.17	740.8	29.21	741.9	— 1.5	—18.6	89	n.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	29.13	740.0	29.15	740.5	— 2.7	—19.3	.....	calm	.....	.....	0	.....	5	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.21	742.0	29.26	743.2	— 1.8	—18.8	.....	calm	.....	.....	0	.....	7	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.43	722.0	28.47	723.1	29.8	— 1.2	90	se.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	A. O. Thoriacius.
Thorshavn	28.84	732.5	28.87	733.4	37.4	3.0	69	calm	0	0	.....	.....	5	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	28.89	733.8	28.98	736.1	28.2	— 2.1	96	ese.	.....	.....	7	.....	10	.....	.....	.....	.....	snowing	Loerer Oesterbol.
Upernavik, Greenland	29.17	741.0	29.22	742.2	— 0.1	—17.8	.....	n.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	
FRENCH.																			
Agen, Normal School	29.30	744.2	29.96	760.9	52.2	11.2	95	ssw.	.....	.....	2	.....	n;kn	.....	.....	0.047	1.2	.....	M. Labroue, Director.
Alençon, Normal School	29.06	738.2	29.61	752.2	41.7	5.4	97	sw.	.....	.....	2	.....	sk	ne.	ne.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	29.18	741.2	29.44	747.8	42.6	5.9	.....	.....	.....	.....	4	.....	k	.....	sw.	0	0	.....	M. Fénéon, Command't.
Avignon, Normal School	29.84	757 8	29.91	759.8	36.0	2.2	96	ne.	.....	.....	1	.....	10	.....	.....	0.047	1.2	rainy	M. Giraud, Director.
Bar-sur-Seine	29.09	738.9	29.65	753.2	44.2	6.8	53	w.	.....	.....	2	0	8 kn	.....	wnw.	0.138	3.5	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.26	743 3	29.53	750.1	43.0	6.1	61	wnw.	.....	.....	2	.....	2	.....	nw.	0.236	6.0	slightly cl'dy	M. Frère Eugène Marie.
Besançon, Normal School	28.75	730.2	29.65	753.1	41.0	5	71	s.	.....	.....	1	.....	10 n	.....	e.	0.256	6.5	raining	M. Gobin, Director.
Bordeaux, Observatory	29.63	752.5	29.89	759.2	52.3	11.3	55	w.	.....	.....	2	.....	5	.....	w.	0.224	5.7	cloudy	M. Rayet, Director.
Bourges, Normal School	29.18	741.1	29.73	755.1	49.1	9.5	73	sw.	.....	.....	2	.....	k8	.....	sw.	0.20	5.	.....	M. Malet, Director.
Brest, Naval Observatory	29.43	747 6	29.68	753.8	45.3	7.4	88	w.	.....	.....	4	.....	10	.....	w.	0.650	16.5	rain & hail	M. de Kermarec, Dir.
Caen, Normal School	29.41	747.1	29.49	749.0	46.4	8	70	e.	.....	.....	2	.....	10	.....	e.	0.177	4.5	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.65	737.9	29.45	748.0	47.7	8.7	59	sw.	.....	.....	4	.....	10	.....	.....	0.244	6.2	covered	M. Jadot, Director.
Charleville, Normal School	28.95	735.3	29.47	748.5	42.8	6	73	sw.	.....	.....	4	.....	0	.....	.....	0.047	1.2	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.40	721.3	29.77	756.2	44.2	6.8	65	w.	.....	.....	3	.....	5	.....	.....	0.114	2.9	½ covered	M. Allnard, Director.
Cluny, Normal School	28.91	734.4	29.74	755.5	46.4	8	66	nne.	.....	.....	3	.....	10	.....	nne.	0.12	3.	raining	M. de Villemontée, Dir.
Commercy, Normal School	28.72	729.4	29.60	751.9	40.6	4.8	93	w.	.....	.....	4	.....	2 k	w.	w.	0.08	2.	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.35	694.7	30.01	762.2	28.8	— 1.8	75	.....	.....	.....	.....	.....	10 n	.....	.....	0.12	3.	snowing	M. Jeangirard, Director.
Gréasque, du Rhone	28 75	730.2	29.93	760.2	32.7	0.4	96	ne.	.....	.....	1	.....	10	.....	ne.	0.059	1.5	.....	M. Kina, Director.
Grenoble, Normal School	29.05	737.8	29.85	758.2	34.2	1.2	96	e.	.....	.....	1	.....	kn	.....	w.	0.106	2.7	.....	M. Ablard, Director.
Guéret	28.21	716.4	29.81	757.2	42.8	6	62	sw.	.....	.....	2	.....	kn	.....	sw.	0.256	6.5	.....	M. Delorme, Dir.
Lamballe, Normal School	29.32	744.6	29.58	751.4	41.4	5.2	94	w.	.....	.....	3	.....	10	.....	w.	0.24	6.	covered	M. Ollitrault, Director.
Lescar, Normal School	29.43	747.5	30.00	762.1	47.3	8.5	90	w.	.....	.....	1	.....	10	.....	.....	0.118	3.0	raining	M. Chauvin, Director.
Lorient, Naval Observatory	29.62	752.3	29.72	754 9	45.9	7.7	77	w.	.....	.....	3	.....	10	.....	.....	0.181	4.6	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.76	730.4	29.84	758.0	39.2	4.0	74	sse.	.....	.....	1	.....	10 n	.....	w.	0.020	0.5	light rain	M. André, Director.
Mans, Normal School	29.33	744.9	29.64	752.8	44.8	7.1	67	n.	.....	.....	4	.....	2	.....	n.	0.417	10.6	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.63	752.6	29.90	759.5	42.4	5.8	78	e.	.....	.....	1.2	.....	10	.....	se.	0.031	0.8	light rain	M. Stephan, Director.
Montlouis	24.67	626.5	29.51	749.5	41.5	5.3	73	sw.	3.8	1.7	.....	.....	9	.....	.....	0	0	.....	M. Caré for Dr. Finas.
Montpellier, Normal School	29.81	757 2	29.94	760.5	38.1	3.4	100	nnw.	.....	.....	2	.....	5	.....	n.	.....	.....	light rain	M. Galzin, Director.
Nancy, Normal School	28.75	730.2	29.54	750.3	41.0	5.0	71	sw.	.....	.....	2	.....	kn	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	29.58	751.4	29.86	758.5	51.3	10.7	62	sw.	.....	.....	1–3	0	9 k	.....	wnw.	0.327	8.3	.....	M. Larocque, Director.
Perpignan, Observatory	29.76	755.9	29.87	758.7	60.1	15.6	55	n.	20.6	9.2	.....	.....	10	.....	nw.	0	0	.....	Dr. Flues, Director.
Pic-du-Midi, Summit	21.04	534.3	.....	.....	23.0	— 5.0	.....	nw.	.....	.....	3–4	.....	10	.....	nw.	0.315	8.0	snowy	M. Vaussenat.
Privas, Normal School	28.79	731.3	29.89	759.2	38.5	3.6	80	s.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	M. Taillen.
Puy de Dôme Obs'y, Summit	24.80	630.0	.....	.....	28.4	— 2.0	100	w.	.....	.....	6	.....	10	.....	.....	0.291	7.4	snow & fog	M. Allnard, Director.
Rochefort, Naval Obs'y	29.79	756.7	29.82	757.5	47.5	8.6	100	wsw.	.....	.....	2	.....	0	.....	.....	0.91	23.	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.55	750.5	29.76	756.0	48.9	9.4	76	w.	.....	.....	1	.....	8	.....	w.	0.295	7.5	very cloudy	M. Brotier, Director.
Rodez, Normal School	27.74	704.7	29.95	760 7	40.6	4.8	90	s.	.....	.....	2	.....	1	.....	ne.	0.443	10.8	clear	M. Seger, Director.
Rouen, Normal School	29.41	747.1	29.46	748 3	40.0	7.8	56	sw.	.....	.....	1	.....	2	se.	.....	0.307	7.8	slightly cl'dy	M. Mouillot.
Saint Lô	.....	.....	.....	.....	43.0	6.1	75	w.	.....	.....	1	.....	10	.....	w.	0.362	9.2	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	29.41	747.1	29.58	751.3	45.5	7.5	54	w.	.....	.....	2	.....	0	.....	.....	0.189	4.8	.....	M. Renou, Director.
Toulouse, Observatory	29.22	742.3	29.95	760.7	49.3	9.6	86	w.	.....	.....	3	.....	8	nw.	.....	0.091	2.3	very cloudy	M. Baillaud, Director.
Tours	29.53	750.0	29.71	754.5	47.5	8.6	67	wsw.	.....	.....	3	.....	5	nw.	wnw.	0.402	10.2	cloudy	M. de Tastes.
Versailles, Observatory	29.08	738.7	29.58	751.2	44.6	7.0	49	w.	.....	.....	2	.....	.....	.....	.....	0.283	7.2	.....	Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	29.87	758.6	30.02	762.4	52.2	11.2	65	w.	17.7	7.9	.....	0	8 k	.....	w.	0.248	6.3	.....	M. Cartier, Director.
GERMAN.																			
Ansbach	28.06	712.6	29.56	750.8	29.1	— 1.6	87	sw.	.....	.....	4	.....	10	sw.	.....	0.110	2.8	.....	Prof. Jnedt.
Bamberg	28.78	730.9	29.61	752.0	30.9	— 0.0	91	se.	.....	.....	2	.....	2	.....	.....	0.098	2.5	.....	Prof. Dr. Hoh.
Berlin	29.33	745.0	29.48	748.8	31.5	— 0.3	57	se.	.....	.....	5	.....	10	.....	.....	0	0	.....	Dr. Lensch.
Breslau	29.17	741.0	29.70	754.3	31.8	— 0.1	67	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	29.06	738.1	29.50	749.2	40.6	4.8	75	sw.	.....	.....	5	.....	10	sw.	.....	0.209	5.3	raining	Albert Senz.
Cassel	28.61	726.8	29.33	744.9	33.1	0.6	89	s.	.....	.....	6	.....	8	sw.	.....	0.248	6.3	snowing	Dr. H. Möhl.
Frankfort-on-the-Main	29.10	739.1	29.48	748.7	34.3	1.3	76	ssw.	.....	.....	1	.....	10	.....	.....	0.087	2.2	.....	Physical Society.
Friedrichshafen	28.20	716.2	29.68	753.8	31.8	— 0.1	68	w.	.....	.....	2	.....	10	w.	.....	0.110	2.8	rain & snow	Wilhelm, Chief Tel.
Hamburg	29.11	739.4	29.20	741.7	30.6	— 0.8	96	s.	.....	.....	6	.....	10	.....	.....	0.059	1.5	snowing	E. Preller.
Kiel	29.16	740.6	29.17	741.0	30.9	— 0.6	89	sse.	.....	.....	4	.....	10	.....	.....	0.028	0.7	snowing	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.06	738.1	29.49	749.1	31.6	— 0.2	66	s.	.....	.....	5	.....	10	.....	.....	.....	.....	snowing	H. Leppig, Asst.
Magdeburg	29.19	741.5	29.39	749.4	30.5	— 0.8	79	sse.	.....	.....	5	.....	10 ks	.....	wsw.	0.016	0.4	snowing	Weather Observatory.
Memel	29.79	756.7	29.84	757.9	23.9	— 4.5	86	sse.	.....	.....	4	0	9 s	.....	.....	.....	.....	.....	Issermann.
Munich	27.74	704.6	29.58	751.2	31.1	— 0.5	67	s.	.....	.....	1	.....	10	.....	.....	0.012	0.3	snowy	Central Station.
Neufahrwasser	29.70	754.4	29.72	754.8	27.5	— 2.5	77	se.	.....	.....	4	.....	3	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	28.91	734.4	29.43	747.5	39.2	4.0	84	sw.	.....	.....	2	.....	10	sw.	.....	0.268	6.8	raining	Dicknether.
Stuttgart	28.56	725.5	29.47	748.5	39.2	4.0	70	w.	.....	.....	5	.....	5	w.	.....	0.051	1.3	snowing	Prof. Dr. Schoder.
Wustrow	29.28	743.7	29.30	744.3	29.7	— 1.3	100	se.	.....	.....	5	.....	10 s	.....	.....	0.051	1.3	.....	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.27	743.5	29.66	753.4	53.4	11.9	.....	s.	.....	.....	1.0	0	3 k	.....	.....	0	0	.....	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.88	758.0	29.94	760.3	65.5	18.6	28	wnw.	19.0	8.5	.....	.....	0	.....	.....	0	0	blue sky	
Deesa	29.38	746.3	29.88	758.8	64.4	18.0	21	wsw.	14.0	6.3	.....	.....	0	.....	.....	0	0	hazy	
Bombay	29.90	759.6	29.94	760.5	75.9	24.2	59	wnw.	16.0	7.2	.....	.....	4	.....	w.	0.12	3.0	d. clouds	
Poona, Yarrowda	28.02	711.6	29.90	759.4	71.8	22.1	51	w.	30.0	13.4	.....	.....	6	wsw.	wsw.	0	0	d. clouds	
Belgaum	27.36	695.0	29.94	760.5	68.6	20.3	76	wsw.	9.0	4.0	.....	.....	9	.....	sw.	0.05	1.3	showery	
Lahore	29.04	737.6	29.83	757 8	48.7	9.3	82	calm	0	0	.....	.....	10	.....	.....	0.24	6.1	raining	
Roorkee	28.86	733.2	29.82	757.3	51.8	11.0	79	se.	3.0	1.3	.....	.....	10	w.	.....	4.00	101.6	drizzling	
Agra	29.17	741.1	29.77	750.1	62.3	16.8	83	w.	6.0	2.7	.....	.....	9	.....	e.	1.22	31.0	drizzling	
Nagpur	28.82	732.1	29.90	759.3	65.7	18.7	80	nw.	16.0	7.2	.....	.....	10	.....	w.	0.23	5.8	overcast	
Jubbulpore	28.47	723.2	29.88	758.9	59.7	15.4	91	nw.	4.0	1.8	.....	.....	10	.....	sw.	0.27	6.9	showery	
Lucknow	29.47	748.5	29.86	758.6	57.3	14.1	91	wnw.	1.0	0.4	.....	.....	10	.....	wnw.	3.75	95.2	thunderstorm	
Allahabad	29.52	749.9	29.85	758.2	62.1	16.7	82	w.	16.0	7.2	.....	.....	10	.....	sw.	1.13	28.7	overcast	
Patna	29.74	755.3	29.93	760.3	61.2	16.2	78	e.	9.3	4.2	.....	.....	10	e.	e.	0.33	8.4	overcast	
Hazaribagh	27.87	707.9	29.94	760.4	64.7	18.2	73	ese.	12.3	5.5	.....	.....	9	.....	wsw.	0	0	.....	
Cuttack	29.87	758.8	29.96	760.9	77.6	25.3	60	s.	3.0	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Allpore	29.97	761.2	29.99	761.8	72.5	22.5	63	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.90	759.5	30.03	762.7	67.5	19.7	86	nw.	8.6	3.8	.....	.....	9	w.	w.	0	0	gloomy	
Chittagong	29.96	760.9	30.05	763 3	68.6	20.3	72	wnw.	2.5	1.1	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.67	753 7	30.02	762.6	60.4	15.8	85	se.	2.0	0.9	.....	.....	10	w.	w.	0	0	d. clouds	
Zanzibar	29.81	757.1	29.83	757.6	86.8	30.4	65	ne.	12.6	5.6	.....	.....	4	.....	.....	0	0	d. clouds	
Jeypore	28.33	719.5	29.84	757.9	54.7	12.6	65	nnw.	3.0	1.3	.....	.....	4	.....	n.	0.46	11.7	d. clouds	
Bellary	28.39	721.1	.....	.....	85.0	29.4	35	se.	8	3.6	.....	7 ck	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.67	753.6	.....	.....	83.5	28.6	48	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.																			
Udine	29.47	748.5	29.89	759.3	36.3	2.4	42	w.	1.3	0.6			0			0	0		Prof. Giovanni Clodig.
Milan	29.41	747.1	29.96	760.9	32.0	0.0	67	nw.	3.1	1.4			8	wnw.		0	0		Prof. Schiaparelli.
Padua	29.78	756.5	29.90	759.4	34.0	1.1	60	wsw.	1.3	0.6			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.00	736.5	29.95	760.6	32.5	0.3	75	ne.	1.3	0.6			4			0	0		Prof. F. F. Denza.
Genoa	29.72	754.9	29.92	759.9	41.5	5.3	50	se.	4.3	1.9			10	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.93	709.4	29.94	760.4	26.6	— 3.0	53	se.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	29.89	759.1	29.94	760.4	32.7	0.4	60	nw.	4.3	1.9			3			0	0		Prof. Luigi Guidi.
Florence	29.67	753.5	29.93	760.2	36.7	2.6	57	nw.			2		0			0	0		Prof. Costantino Pittei.
Leghorn	29.79	756.6	29.87	758.8	40.3	4.6	35	e.	4.3	1.9			1			0	0		Prof. P. Monte.
Rome	29.74	755.4	29.92	760.0	41.4	5.2	34	n.	0	0			0			0	0		Prof. P. Tachini.
Lecce	29.53	750.1	29.79	756.7	46.0	7.8	61	nnw.	23.7	10.6			4	nnw.		0	0		Prof. C. de Giorgi.
Cosenza	28.91	734.5	29.84	757.8	45.0	7.2	71	ese.	2.5	1.1			3	se.		0	0		Prof. D. Conti.
Cagliari	29.76	755.9	29.96	761.0	47.8	8.8	54	nw.			2		8	nw.		0	0		Prof. A. Pacinotti.
Palermo	29.67	753.6	29.93	760.1	43.9	6.6	75	wnw.	3.1	1.4			10	nw.		0.535	13.6		Prof. G. Caccintore.
Syracuse	29.80	756.9	29.84	758.0	48.9	9.4	49	nw.	0.3	2.8			5	wnw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.36	745.7	29.90	759.5	42.3	5.7	60	nw.	0	0			0			0	0		Prof. F. Brioschi.
Stelvio	21.70	551.2			9.0	—12.8	76	sw.			6		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	21.79	553.2			10.0	—12.2	56	ne.			2		10			0.591	15.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.79	756.7	29.82	757.5	35.2	1.8	91	n.			2		10 ck		nw.	0	0	cloudy	Hattori.
Awomori	29.83	757.7	29.87	758.6	32.4	0.2	88	sw.	2.8	1.2			10 s			0.006	0.1	overcast	K. Ogawa.
Hakodate	29.86	758.5	29.87	758.7	36.0	2.2	82	nw.	12.0	5.4			9			0.250	6.4	overcast	
Hamamatsu	29.57	751.1	29.60	751.8	50.6	10.3	96	calm			0		10 n			0.661	16.8	raining	
Kagoshima	30.00	762.0	30.01	762.3	46.0	7.8	79	n.			6	0	3 s			0.217	5.5	fair	G. Miyanohasa.
Kioto	29.54	750.2	29.72	754.8	43.5	6.4	93	nw.	3.6	1.6			10 n			0.577	14.7	raining	M. Tojima.
Kochi	29.75	755.6	29.77	756.1	51.1	10.6	58	nw.	14.6	6.5		1	9	w.	n.	0.331	8.4	overcast	K. Kusunose.
Misaaka	29.92	759.8	29.94	760.5	46.9	8.3	74	wnw.			4	0	1 s		w.	0.094	2.4	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	29.82	757.5	30.03	762.8	43.5	6.4	73	nw.	2.4	1.1		2 c	2 ks	nw.	nw.	0.360	9.1	clear	S. Takehayashi.
Nilgata	29.76	755.9	29.79	756.6	42.1	5.6	93	nne.	4.0	1.8			10 n		n.	0.570	14.5	light rain	M. Morita.
Nobiru	29.69	754.1	29.70	754.5	35.6	2.0	92	nnw.	13.7	6.1			10 n			0.050	16.5	rainy	H. Midzushima.
Numazu	29.61	752.1	29.65	753.0	47.0	8.3	94	calm			0		10 n			0.153	3.9	cloudy	R. Kaneda.
Sakai	29.83	757.7	29.84	758.0	45.0	7.2	87	w.			2		10 n		w.	0.779	19.8	light rain	K. Yamawchi.
Supporo					24.0	— 4.4	92	se.	5.2	2.3			10			Inap	Inap.	covered	
Tokei Obs'y, Yeddo	29.57	751.1	29.65	753.0	44.6	7.0	97	n.	3.3	1.4			10 n			0.875	22.2	raining	The Staff.
Wakayama	29.70	754.3	29.75	755.7	45.1	7.3	87	nw.	10.0	4.5			10 mck		nnw.	0.839	21.3	raining	V. Kuwammea.
Osaka	29.73	755.0	29.74	755.4	44.1	6.7	87	n.	6.8	3.0			10n			0.715	18.1	raining	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.69	754.1	29.88	758.9	81.9	27.7	68	ne.	13.0	5.8		0	4 k		ne.	0.02	0.5	fair	Oliver & Figon.
MEXICAN.																			
Altata					48.5	9.2	92	e.											H. Diaz Pena.
Guanajuato	23.70	602.1	29.92	760.1	50.5	10.3	75	w.	Inap.	Inap.		8 c;cs	0	w.		0	0	foggy	Prof. Vicente Fernandez.
Leon	24.35	618.5	30.12	765.0	50.4	10.2	82	sw.			1		10 cks			0	0	covered	Prof. M. Leal.
Mazatlan	29.77	756.0	30.03	762.8	58.6	14.7	94	n.	1.6	0.8		1 cs	0			0	0	foggy	F. Quijano, U. E.
Mexico, Central Obs'y	23.13	587.4	30.28	769.1	48.7	9.3	64	calm	0	0		5 c	5 ks	nw.		0	0	covered	The Staff.
Morelia	24.28	616.8	30.18	766.5	48.9	9.4	75	se.			2	1 c	2 k	s.	s.	0	0	clear	M. Tena, M. D.
Pabellon	23.97	608.9	30.08	763.9	52.5	11.4	75	sw.			2					0	0		
Puebla, Catholic Institute	23.45	595.7	30.28	769.1	44.6	7.0	82	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
Zacatecas	22.57	573.2	30.31	769.8	46.8	8.5	80	sw.	6.6	2.9		4 c	6 nk	wsw.	wsw.	0	0	covered	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.26	743.1	29.26	743.1	41.7	5.4		wsw.			6					0.118	3.0		
Groningen	29.00	736.5	29.05	737.9	37.2	2.9		ssw.			5					0.102	2.6		
Hellevoetsluis	29.19	741.5	29.19	741.5	40.3	4.6	65	w.			5					0.197	5.0		
Utrecht	29.15	740.4	29.20	741.6	40.3	4.6	70	sw.			5		5			0.109	4.3	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.84	758.0			78.8	26.0	86	n.	0	0			7			0.75	19.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	28.94	735.0	29.00	736.6	34.9	1.6	37	e.	25	11			5			0	0		
Brono	29.13	740.0	29.17	741.0	27.0	— 2.8	51	se.	9	4			2			0	0		
Christiania	29.21	741.8	29.30	745.7	26.1	— 3.3	100	e.	4	2			10			0.008	0.2		
Gjesvær	29.11	739.3	29.13	739.9	27.7	— 2.4		ssw.			6		10						
Lodingen	29.13	740.0	29.18	741.2	28.4	— 2.0	55	s.			6		10			0.004	0.1		
PORTUGUESE.																			
Angra, Azores	30.32	770.1	30.48	774.1	56.5	13.6	89	se.	5.6	2.5			6			0	0		Dr. J. A. Sampaio.
Ompo Major	29.21	741.9	30.22	767.7	54.9	12.7	90	sw.	9.8	4.4			9			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.37	771.5	30.40	773.7	66.0	18.9	64	sw.	3.8	1.7			7			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.90	761.0	30.33	770.3	57.7	14.3	87	wnw.	16.8	7.5			5			0.059	1.5		The Staff.
Ponta Delgada, Azores	30.44	773.1	30.51	774.9	60.1	15.6	85	ne.	4.9	2.2			3			0.102	2.6		
Saint Paul de Loando	29.71	754.6	29.91	759.6	80.2	26.8	87	w.	1.8	0.8			10			0	0		
Serra da Estrella	25.32	643.0	30.14	765.5	40.5	4.7	100	wnw.	36.7	16.4			10			4.725	120.0	rain & fog	
RUSSIAN.																			
Akmolinski	28.73	729.8	29.94	760.5	— 4.9	—20.5	93	sw.	9	4		0	7 k						Major K. Lasarew.
Archangel	30.02	762.5	30.04	763.0	21.9	— 5.6	90–	wsw.	4	2			10			0	0		Capt. Sselliwerstow.
Ashurada	30.50	774.7	30.41	772.3	35.8	2.1	91	ese.	11	5		0	7 ku			blank	blank		
Astrachan	30.39	772.0	30.31	769.9	16.9	— 8.4	76	w.	7	3		0	2 s			0	0	light clouds	Capt. Wisganow.
Baku	30.39	771.9	30.34	770.7	35.2	1.8	71	ssw.	4	2		0	6 k			0.012	0.3		
Barnaul	29.39	746.5	29.94	760.4	5.7	—14.6	72	sw	13	6			10			0.091	2.3		Meteorological Obs'y.
Bielosersk	29.74	755.5	30.25	768.4	16.2	— 8.8	95	calm	0	0			10 s			0	0		
Dorpat	29.78	756.4	30.05	763.2	14.9	— 9.5	94	sse.	9	4			10 n					light snow	Observatory.
Ekaterinburg	28.96	735.5	30.00	762 1	8.8	—12.9	92	nw.	9	4			10			0.016	0.4	snowing	Meteorological Obs'y.
Elisawetgrad	29.78	750.5	30.28	769.0	16.2	— 8.8	91	ne.	7	3		0	2 ks			0	0		
Irkutsk	28.45	722.6	30.30	769.6	— 4.9	—20.5	80	se.			3		0			0	0		
Kasan	29.83	757.7	30.13	765.2	10.2	—12.1	78	w.	7	3			0			0.012	0.3		Observatory.
Kem	29.89	759.3	29.95	760.6	21.2	— 6.0	82	ssw.	13	6			9 ks			0	0		
Kertch	30.10	764.4	30.11	764.9	18.1	— 7.7	95	calm	0	0		0	8 n			0	0		Lagorio & Sastyrez.
Kieff	29.58	751.4	30.28	769.0	17.4	— 8.1	85	se.	4	2			10ks;n			0	0		Observatory.
Koslov	29.73	755.2	30.32	770.2	5.5	—14.7	82	calm	0	0		0	0			0	0		
Libau	29.78	756.3	29.80	756.9	25.0	— 3.9	77	se.	13	6			10			0	0		E. Quaas.
Lugan	30.03	762.7	30.23	767.9	14.0	—10.0	87	sw.	2	1			0			0.004	0.1		Meteorological Obs'y.
Moscow	29.78	756.5	30.32	770.1	9.3	—12.6	78	wnw.	2.2	1.0		1 cs	0			0	0	light clouds	
Nikolaiev	30.08	764 0	30.15	765.9	19.4	— 7.0	75	ene.	22	10		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amour	30.00	761.9	30.08	764.1	—20.2	—29.0	67	calm	0	0			8			0	0		Iwanow.
Pekin, China	30.20	767.1	30.34	770.7	22.5	— 5.3	63	calm	0	0		0	0			0	0		Physicle Observatory.
Petrozavodsk	29.89	759.2	30.11	764.7	15.3	— 9.3	84	s.	7	3		3 cs	0			0	0		Dr. Bergmann.
Pinsk	29.61	752.0	30.13	765.4	24.4	— 4.2	68	se.	27	12		0	1 s			0	0	light clouds	
Poti	30.02	762.5	30.04	763.0	43.5	6.4	47	e.	13	6		0	0			0	0		
St. Petersburg	30.08	763.9	30.09	764.3	7.5	—13.6	83	sse.	13	6		c;cs	8 s			0	0		Central Physical Obs'y.
Samarkand	27.59	700.7	30.19	766.8	28.0	— 1.9	85	calm	0	0			10 n						
Sevastopol	29.04	752.9	29.81	757.1	33.8	1.0	63	calm	0	0		9 cs	0			0	0		
Semipalatinsk	29.34	745 3	30.00	763.5	5.4	—14.8	78	s.	9	4			9			0	0		Major Lasarew.
Starol Bykhov	29.84	757.8	30.34	770.6	12.4	—10.9	97	se.	7	3			10					light snow	
Tiflis	28.90	734.0	30.40	772.2	32.0	0.0	71	ese.	7	3			10 ks			Inap.	Inap.		Physical Observatory.
Tomsk	29.35	745.4	29.95	753.0	11.5	—11.4	81	sw.	20	9			10						
Vlatka	29.40	746.7	30.09	764.3	6.3	—14.3		nw.	4	2			10			0	0		
Warsaw	29.41	747.0	29.85	758.3	26.6	— 3.0	76	s.	16	7			10			0	0	heavy clouds	Astronomical Obs'y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Wilna	29.61	752.2	30.06	763.5	23.9	— 4.5	86	se.	13	6			10			0	0	heavy clouds	Berg, Assistant.
Yeniseisk	29.40	746.7	29.71	754.5	14.0	—10.0	90	wsw.	9	4			10			0.059	1.5		M. O. Marks.
Scottish.																			
Monach Lt			28.91	734.3	39	3.9	91	nw.			6		10			0.7	18.	snowing	J. Youngclauss.
North Unst			28.91	734.3				s.			6		10			blank	blank		Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.77	756.1	29.87	758.8	59.0	15.0	59	w.	4.7	2.1		2 ck	0			0	0		Antonio Rzve, Director.
Bilbao, Met. Obs'y	30.06	763.5	30.11	764.9	50.7	10.4	93	nw.	2.2	1.0			10			0.339	8.6	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.06	687.3	30.07	763.8	47.5	8.6	82	sw.	14.3	6.4			8			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.87	707.8	30.13	765.4	50.4	10.2	81	sw.	23.7	10.6		0	8			0.004	0.1	cloudy	The Staff.
Murcia, Met. Obs'y	29.96	760.9	30.07	763.8	67.1	19.5	64	wnw.	2.2	1.0		2	3	se.		0	0	clouds	Olayo Diaz, Director.
Oviedo	29.17	740.9	30.04	763.1	49.1	9.5	88	se.	17.4	7.8		4 s	0	n.		0	0		Prof. L. G. Frades.
Santiago, Met. Obs'y	29.22	742.3	30.13	765.3	53.1	11.7	73	sw.	1.3	0.6			9			0.299	7.6	almost cov'd	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.90	759.4	29.96	760.9	79.1	26.2	80	nne.	4.9	2.2		0	8 ks			0.079	2.0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.26	768.6	30.36	771.1	58.8	14.9	70	wnw.	9.8	4.4		0	3		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.00	761.9	30.09	764.2	76.3	24.6	83	e.	12.5	5.6		3 cs	3 k	e.	e.	0.020	0.5		Manuel Maese.
Swedish.																			
Hapsranda	29.60	751.9	29.64	752.9	20.1	— 6.6	95	sw.			6		10			0	0		
Umea	29.52	749.7	29.57	751.0	26.6	— 3.0	96	sw.			2		10			0.480	12.2		
Hernosand	29.46	748.2	29.51	749.5	25.9	— 3.4	78	sw.			4		9			0	0		
Stockholm	29.38	746.3	29.56	750.8	30.2	— 1.0	88	s.			6		10					snowing	
Wisby	29.55	750.6	29.61	752.1	31.3	— 0.4	81	s.			4		10					snowing	
Sub-series.																			
Upsala	29.46	748.2	29.54	750.4	28.4	— 2.0	94	sse.	12.5	5.6			10		s.	0.087	2.2	snowing	S. G. Fineman.
Swiss.																			
Geneva	28.34	719.9	29.81	757.1	41.0	5.0	73	ssw.			5		10			0.067	1.7	raining	The Observatory.
Turkish.																			
Constantinople			29.69	754.0	51.8	11.0	63	sw.	8	3.5			10		sw.	0.161	4.1		The Observatory.
Valona			29.77	756.1	43.3	6.3		e.			1		10			0.83	21.	rainy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.97	761.3	64.9	18.3	57	sw.			3		7 n		sw.	0	0		Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.30	668.0			28	— 2.2		calm			0		10 n			0.05	1.3	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.46	773.7	30.55	776.0	5	—15.0	76	n.	4	1.8		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.70	754.4	30.41	772 4	—15.3	—26.3	41	nw.	7	3.1		0	0			inap	inap.	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.00	635.0	30.12	765.0	22	— 5.6	76	ne.	2	0.9		0	4 s			0	0	fair	W. O. Barnes.
Assinnaboine, Ft., Montana	26.90	683.2	29.94	760.5	13	—10.6	66	calm	0	0			10 s		w.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.08	738.6	30.31	769 9	44.0	6.7	96	calm	0	0			fg.			0	0	dense fog	H. C. Smith.
Atlantic City, New Jersey	30.34	770.6	30.35	770.9	24	— 4.4	88	n.	12	5.4			10 n			0.29	7.4	light snow	Jas. M. Watson.
Augusta, Georgia	30.11	764.8	30.31	769.9	51	10.6	93	calm	0	0			10 s			0.04	1.0	cloudy	John Healy.
Baltimore, Maryland	30.40	772.1	30.45	773.4	26	— 3.3	88	ne.	6	2.7			10 n			0.09	2.3	light snow	Geo W Felger.
Barnegat, New Jersey	30.35	770.9	30.37	771.4	27.0	— 2.8	96	e.	28	12.5			10 n		e.	0.08	2.0	light snow	G. A. Hill.
Behring Id., Behring Sea	29.79	756.7	29.81	757.2	22.9	— 5.1		n.	13	5.8			10 n			0.01	0.3	cloudy	Leonard Steineger.
Bennett, Fort, Dakota	28.16	715.3	29.90	759.4	10	—12.2	89	nw.	1	0.4		5 c	5 s			0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	26.92	683.8	29.90	759.4	24	— 4.4	64	sw.	20	8.9			10 s		sw.	0	0	cloudy	S. Wheaton.
Billings, Montana	26.63	676.4			18	— 7.8	70	sw.	3	1.3		3 c	5 s	w	sw.	0	0	cloudy	T. Gibson.
Bismarck, Dakota	27.86	707.6	29.85	758.2	8	—13.3	80	s.	2	0.9		6 c	0			0	0	fair	Cyrus Cramer.
Block Island, Rhode Island	30.43	772.9	30.46	773.7	22	— 5.6	73	ne.	26	11.6			10 s		w.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.19	690.6	30.12	765.0	27	— 2.8	88	nw.	2	0.9		0	4 s			0.09	2.3	fair	B. E. Light.
Boston, Massachusetts	30 33	770.4	30.50	774.7	17.3	— 8.2	58	nw.	12	5.4		0	0			0	0	clear	O. B. Cole.
Brownsville, Texas	29 90	761.0	30.01	762.2	67.6	19.8	93	s.	8	3.6			10 s		s.	inap.	inap.	cloudy	M. McCarty.
Buffalo, New York	29.66	753.4	30.46	773.7	4.5	—15.3	83	ne.	7	3.1		0	sk.			0.01	0.3	clear	W. Finn.
Buford, Fort, Dakota																			F. A. Mellen.
Burlington, Vermont	30.24	768 1	30.55	776.0	— 6.2	—21.2	87	e.	3	1.3		0	0			0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.80	756.9	30.22	767.6	32.8	0.4	88	se.	6	2.7			10 s		se.	0	0	cloudy	W. H. Ray.
Cape Henry, Virginia	30.30	769.6	30.32	770.1	32	0.0	88	nw.	20	8.9			10 s			0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.32	770.1	30.35	770.9	25.0	— 3.9	88	n.	12	5.4			10 s			0.05	1.3	cloudy	W. E. Smith.
Cape Mendocino, California	29.54	750.3	30.24	708.1	46	7.8	83	se.			7		10 ks		se.	0.18	4.6	cloudy	J. J. McLean.
Cedar Keys, Florida	30.20	767.1	30.22	767.6	59	15.0	87	ne.	4	1.8		0	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.36	745.7	30.23	767.8	10.0	— 8.9	73	se.	8	3.6			10 s		se.	inap.	inap.	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.20	767.1	30.26	768.6	51	10.6	93	nw.	4	1.8		0	fg.			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.36	745.7	30.25	768.3	42.0	5.6	92	n.	5	2.2		5 cs	fg.			0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.42	747.3	30.28	769.1	42.0	5.6	82	calm	0	0		2 cs	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.76	603.5	30.02	762.5	31.2	— 0.4	47	nw.	12	5.4		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.53	750.0	30.28	769.1	15.3	— 9.3	76	se.	11	4.9		0	0			0.03	0.8	clear	J. Mitchell.
Chincoteague, Virginia	30.28	769.1	30.30	769.6	32	0.0	88	ne.	25	11.2			10 ks		ne.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.65	753 1	30.34	770.6	24	— 4.4	88	n.	5	2.2			10 s		ne.	0.03	0.8	cloudy	R. B. Watkins.
Cleveland, Ohio	29.61	752.1	30.39	771.9	8.5	—13.1	87	e.	4	1.8		2 cs	0			0.01	0.3	clear	J. B. Newlin.
Coleman City, Texas	28.16	715.3	30.04	763.0	34	1.1	82	n.	2	0.9			10 s		n.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.44	747.8	30.34	770.6	20	— 6.7	84	ne.	3	1.3			10 s			0.48	12.2	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.02	711.7	30.04	763.0	37.5	3.1	72	calm	0	0			10 s			0	0	cloudy	J. McGlone.
Davenport, Iowa	29.47	748.5	30.18	766.6	8	—13.3	55	e.	8	3.6		8 cs	hz.			0	0	cloudy	W. B. Lamar.
Davis, Fort, Texas	25.14	638.5	30.12	765.0	34	1.1	65	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.30	718.8	30.10	764.5	31	— 0.6	88	sw.	12	5.4		10 k	0	sw.		0.02	0.5	cloudy	D. Moore.
Deadwood, Dakota	25.06	636.5	30.00	762.0	26	— 3.3	80	w.	4	1 8		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.33	770.4	30.35	770.9	25	— 3.9	88	n.	26	11.6			10 s		n.	0.10	2.5	cloudy	T. S. Townsend.
Denison, Texas	29.19	741.4	30.03	702.7	37.0	2.8	89	calm	0	0			10 n			inap.	inap.	light rain	J. W. Byram.
Denver, Colorado	24.40	621.3	29.98	761.5	31.0	— 0.6	74	n.	1	0.4		0	3 s			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.14	740.1	30.11	764.8	12	—11.1	61	se.	4	1.8			10 s		se.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.65	753.1	30.41	772.4	10.8	—11.8	87	e.	7	3.1		0	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.15	689.6	29.90	759.4	21	— 6.1	100	se.	11	4.9			10 s			inap.	inap.	cloudy	V. P. Temple.
Dubuque, Iowa	29.45	748.0	30.22	767.6	10.3	—12.1	58	e.	1	0.4		10 c	0	e.		0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.32	744.7	30.13	765.3	6	—14.4	76	s.	1	0.4		5 ck	0	sw.		0	0	fair	N. B. Conger.
Eagle Pass, Texas	29.21	741.9	30.05	763.3	57.1	13.9	93	sw.	1	0.4			10 n			inap.	inap.	light rain	F. Belford.
Eagle Rock, Idaho	25.21	640.3	30.17	766.3	26	— 3.3	80	sw.	24	10.7		3 cs	0			0.30	7.6	clear	J. M. Clifford.
Eastport, Maine	30.40	772.1	30.47	773.9	6.0	—14.4	76	w.	8	3.6		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.03	686.5	29 96	761.0	20	— 6.7	73	se.	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.22	666.0	30.10	764.5	45.3	7.4	56	w.	8	3.6		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.63	752.6	30.40	772.1	8	—13.3	76	ne.	2	0.9		0	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.60	751.8	30.32	770.1	— 4.5	—20.3	85	calm	0	0			10 s		s.	0	0	cloudy	George Heathcote.
Fredericksburg, Texas	28.13	714 5	29.95	760.7	61	16.1	90	s.	13	5.8			10 ks		s.	0	0	cloudy	Frank Hallwegler.
Galveston, Texas	30.04	763.0	30.09	764.3	61	16.1	93	s.	13	5.8			fg.			0	0	dense fog	E. O'C. MacInernay.
Grand Haven, Michigan	29.64	752.8	30.34	770.6	— 2.0	—18.9	100	e.	6	2.7			10 s			0	0	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.20	640.1	30.10	764 5	41	5.0	48	sw.	6	2.7		0	1 s			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.24	768.1	30.26	768.6	43	6.1	100	ne.	14	6.3			fg.			0	0	dense fog	R. M. Crawford.
Helena, Montana	25.65	651.5	30.08	764.0	32	0.0	81	sw.	11	4.9		2 cs	0	calm		0.01	0.3	clear	N. C. Smith.
Henrietta, Texas	29.00	736.6	30.07	763.8	28	— 2.2	88	s.	1	0.4			10 s			0	0	cloudy	J. P. Sherry.
Huron, Dakota	28.36	720.3	29.90	759.4	13.3	—10.4	46	se.	21	9.4			10 s			0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.42	747.3	30.26	768.6	16	— 8.9	83	ne.	4	1.8		0	9 s		ne.	0.02	0.5	cloudy	J. F. Jirdinston.
Indianola, Texas	30.02	762.5	30.05	763.3	62.0	16.7	100	se.	8	3.6		0	fg.			0	0	clear	I. A. Reed.
Jacksboro, Texas	28.82	732.0	30.00	763.5	30	— 1.1	68	s.	4	1.8			10 s			0	0	cloudy	D. J. Carr.
Jacksonville, Florida	30.20	767.1	30.25	768.3	56	13.3	93	calm	0	0		4 cs	fg.	w.		0	0	fair	J. W. Smith.
Keogh, Fort, Montana	27.19	690.6	29.88	758.9	10	—12.2	80	s.	2	0.9		0	fg.			0.01	0.3	clear	A. Schneider.
Keokuk, Iowa	29.45	748.0	30.15	765.8	11.0	—11.7	80	e.	10	4.5			10 s		e.	0	0	cloudy	F. Z. Gosewisch.

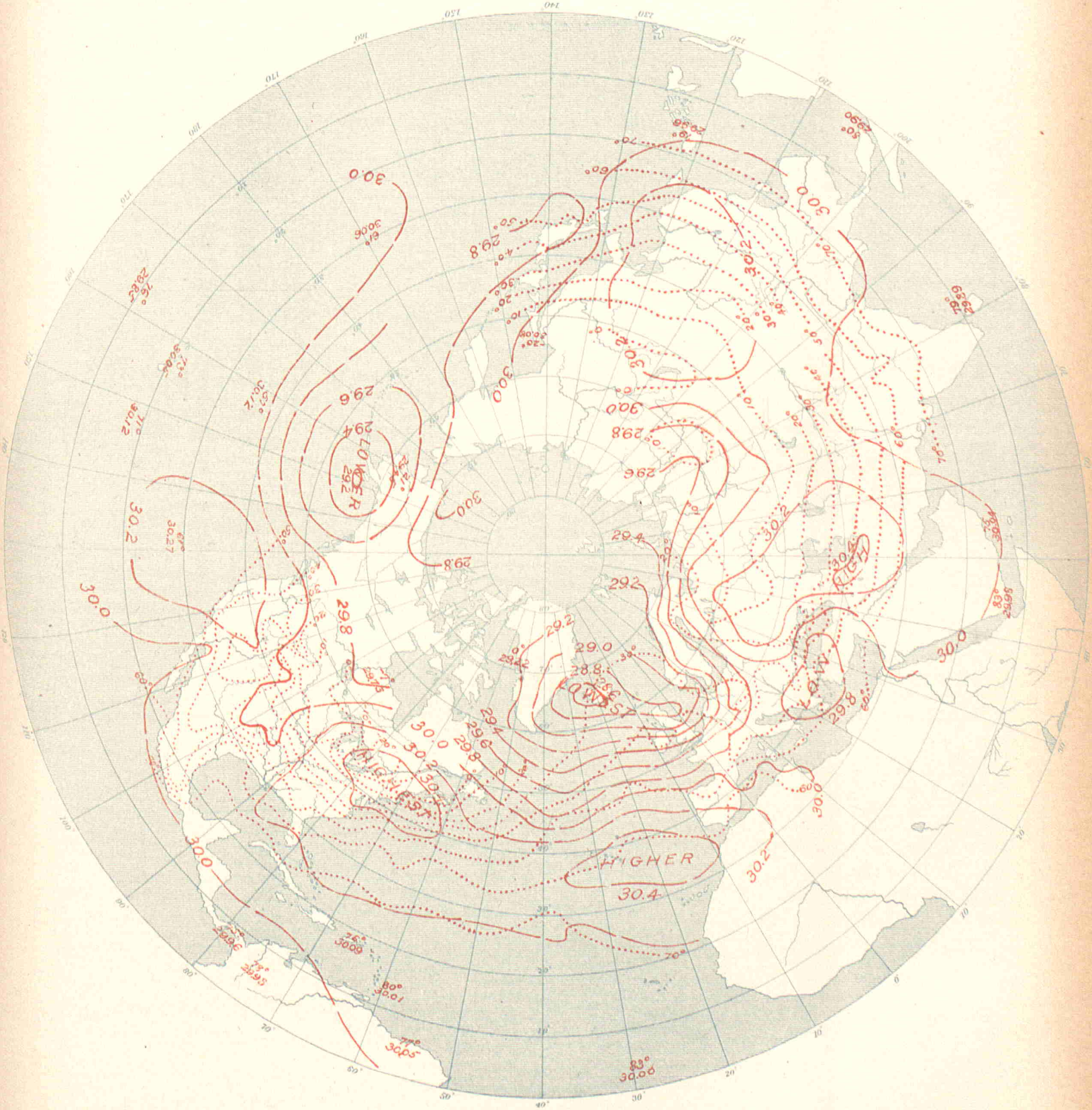
STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	OBSERVERS
UNITED STATES.—Cont'd.																			
Key West, Florida	30.09	764.3	30.11	764.8	69.0	20.6	93	ne.	7	3.1	.....	.....	10 s	.....	.....	1.15	29.2	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.26	768.6	30.28	769.1	38	3.3	89	n.	32	14.3	.....	.....	10s;fg	.....	.....	inap.	inap.	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.21	741.9	30.29	769.4	41	5.0	88	e.	2	0.9	.....	hz.	5 s	.....	w.	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.32	744.7	30.16	766.1	7	—13.9	76	sw.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	S. C. Emery
Leavenworth, Kansas	29.07	738.4	30.03	762.7	25	— 3.9	73	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.21	741.9	30.08	764.0	37.0	2.8	72	se.	1	0.4	.....	6 k	3 s	nw.	.....	0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.79	756.7	30.12	765.0	43	6.1	74	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.73	755.1	30.13	765.3	47	8.3	86	e.	4	1.8	.....	5 c	0	w.	.....	0	0	fair	T. S. Collins.
Louisville, Kentucky	29.67	753.6	30.26	768.6	27.5	— 2.5	70	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.62	752.3	30.34	770.6	31.2	— 0.4	68	ne.	5	2.2	.....	.....	10 ks	.....	ne.	0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.67	753.6	30.37	771 4	0.0	—17.8	68	e.	4	1.8	.....	7 k	0	w.	.....	0	0	fair	F. R. Day.
Macon, Fort, North Carolina	30.25	768.3	30.26	768.6	46.0	7.8	100	n.	2	0.9	.....	.....	fg.	.....	.....	0.02	0.5	dense fog	William Daly.
Madison, Wisconsin	29.16	740.7	30.25	768.3	5	—15.0	76	se.	4	1.8	.....	10 cs	0	w.	.....	0	0	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.23	640.8	29.78	756.4	32	0.0	34	w.	20	8.9	.....	10 k	0	w.	.....	0	0	cloudy	F. Burke.
McKavett, Fort, Texas	27.70	703.6	30.09	764.3	50	10.0	86	s.	14	6.3	.....	.....	10 ks	s.	.....	0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.49	749.0	30.27	768.8	7	—13.9	52	s.	5	2.2	.....	3 c	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	29.82	757.4	30.18	766.6	40	4.4	89	e.	4	1.8	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.51	749.3	30.31	769.9	19	— 7.2	84	s.	4	1.8	.....	.....	10 s	.....	se	0.01	0.3	cloudy	W. Line.
Missoula, Fort, Montana	26.64	676.6	30.10	764.5	30	— 1.1	71	nw.	2	0.9	.....	5 k	0	n.	.....	0.08	2.0	fair	I. H. Young.
Mobile, Alabama	30.18	766.6	30.22	767.6	49.5	9.7	96	n.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	C. A. Read.
Montgomery, Alabama	29.99	761.7	30.23	767.8	52.7	11.5	97	se.	2	0.9	.....	.....	10 n	.....	.....	inap.	inap.	light rain	J. B. McLaughlin
Moorhead, Minnesota	28.83	732.3	29.94	760.5	4	—15.6	100	se.	28	12.5	.....	.....	10 s	.....	se.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.29	744.0	30.35	770.9	25.5	— 3.6	80	ne.	1	0.4	.....	.....	10 s	.....	.....	0.46	11.7	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.70	602 0	30.33	770.4	— 2.0	—18.9	71	nw.	10	4.5	.....	0	0	.....	.....	0.04	1.0	clear	S. W. Beall.
Nashville, Tennessee	29.63	752.6	30.24	768.1	38.0	3.3	96	e.	5	2.2	.....	.....	10ks;fg	.....	.....	0.09	2.3	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.36	771.1	30.48	774.2	13	—10.6	61	ne.	13	5.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.42	772.7	30.47	773.9	17	— 8.3	67	n.	6	2.7	.....	10 cs	0	w.	.....	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.11	764.8	30.17	766.3	52.0	11.1	86	e.	4	1.8	.....	0	sk.	.....	.....	0	0	clear	L. Dunne.
Newport, Rhode Island	30.42	772 7	30.47	773.9	17.0	— 8.3	67	n.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	W. McGillivray.
New York, New York	30.28	769.1	30.48	774.2	20	— 6.7	84	n.	8	3.6	.....	.....	10 n	.....	.....	0.01	0.3	light snow	J. B. Merrill.
Norfolk, Virginia	30.30	769.6	30.33	770.4	33	0.6	88	n.	10	4.5	.....	.....	10s;fg	.....	.....	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	26.81	681.0	29.93	760.2	13.6	—10.2	76	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	E. F. Brady.
Olympia, Washington Ty.	30.04	763.0	30.08	764.0	41.0	5.0	92	s.	3	1.3	.....	.....	10 n	.....	sw.	0.22	5.6	light rain	J. Dascomb.
Omaha, Nebraska	28.77	730.7	30.04	763.0	17.8	— 7.9	73	se.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	A. Poliak.
Ooglaamie, Alaska	30.00	762.0	30.02	762.5	—28.8	—33.8	.....	nne.	10	4.5	.....	0	0	.....	.....	0	0	clear	P. H. Ray.
Oswego, New York	30.14	765.5	30.48	774.2	1.5	—16.9	85	se.	9	4.0	.....	8 cs	0	.....	.....	inap.	inap.	cloudy	J. G. Linsley.
Palestine, Texas	29.50	749.3	30.08	764.0	62.0	16.7	93	s.	18	8.0	.....	10 cs	0	.....	.....	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.19	766.8	30.22	767.6	58.0	14.4	100	e.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	M. McGauran.
Philadelphia, Pa	30.34	770.6	30.45	773.4	21	— 6.1	100	ne.	14	6.3	.....	.....	10 n	.....	ne.	0.10	2.5	light snow	T. T. Townsend.
Pike's Peak, Colorado	17.46	443.5	30.16	766.1	9	—12.8	100	w.	.....	.....	7	.....	10 s	.....	w.	0	0	cloudy	H. Hall.
Pioche, Nevada	23.98	609.1	30.18	766.6	25.8	— 3.4	70	nw.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.50	749.3	30.35	770.9	22.0	— 5.6	88	calm	0	0	.....	.....	10 s	.....	.....	0.26	6.6	cloudy	W. A. Reid.
Poplar River, Montana	27.50	698.5	29.85	758.2	.....	.....	.....	w.	.....	.....	4	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.18	766.6	30.18	766.6	54.6	12.6	92	e.	8	3.6	.....	0	fg.	.....	.....	0	0	clear	H. B. Boyer.
Port Huron, Michigan	29.69	754.1	30.42	772.7	1.2	—17.1	87	e.	1	0.4	.....	10 cs	0	.....	.....	0.02	0.5	cloudy	W. O. Balley.
Portland, Maine	30.45	773.4	30.50	774.7	7	—13.9	63	nw.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	W. W. Eichelburger.
Portland, Oregon	30.06	763.5	30.13	765.3	43.3	6.3	96	s.	10	4.5	.....	.....	10 n	.....	s.	0.43	10.9	light rain	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	45	7.2	100	ne.	.....	.....	2	.....	fg.	.....	.....	inap.	inap.	dense fog	F. S. Coburn.
Prescott, Arizona	24.69	627.1	30.07	763.8	37.3	2.9	53	sw.	4	1.8	.....	.....	8 ks	w.	.....	0	0	cloudy	W. H. Clendenon.
Provincetown, Mass.	30.43	772.9	30.46	773.7	24	— 4.4	61	ne.	3	1.3	.....	1 cs	4 s	.....	ne.	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.15	765.8	30.16	766.1	66	18.9	92	ne.	9	4.0	.....	10 cs	0	.....	.....	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.95	760.7	30.32	770.1	39	3.9	100	nw.	1	0.4	.....	8 ck	0	nw.	.....	0	0	cloudy	J. R. Williams.
Rochester, New York	29.75	755.6	30.46	773.7	6	—14.4	76	sw.	7	3.1	.....	.....	10s;hz	.....	.....	inap.	inap.	cloudy	E. W. McGann
Roseburg, Oregon	29.08	753.9	30.25	768.3	39.2	4.0	91	se.	4	1.8	.....	.....	10 s	.....	w.	0.71	18.0	cloudy	J. J. Nanry.
Sacramento, California	30.23	767.8	30.31	769.9	41.2	5.1	92	se.	3	1.3	.....	0	0	.....	.....	0.09	2.3	clear	J. A. Barwick.
St. Louis, Missouri	29.55	750.6	30.19	766 8	27.7	— 2.4	92	se.	8	3.0	.....	.....	10 s	.....	se.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.42	747.3	29.45	748.0	21	— 6.1	100	ne.	2	0.9	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.12	739.6	30.08	764.0	4.0	—15.6	72	e.	13	5.8	.....	.....	10 s	.....	se.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.89	733.8	29.87	758.7	— 1	—18.3	79	sw.	.....	.....	2	.....	10 s	.....	.....	0	0	cloudy	C. B Dilley.
Salt Lake City, Utah	25.62	650.7	30.20	767.1	34	1.1	66	calm	0	0	.....	.....	10 s	.....	.....	0.23	5.8	cloudy	J. Craig.
San Antonio, Texas	29.31	744.5	30.04	763.0	63.5	17.5	93	s.	2	0.9	.....	6 k	0	s.	.....	0	0	fair	T. J. Kenan.
San Diego, California	30.01	762.2	30.08	764.0	52.2	11.2	96	n.	3	1.3	.....	5 k	5 s	nw.	nw.	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.66	753.4	30.38	771.6	16	— 8.9	83	se.	15	6.7	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.43	772.9	30.46	773.7	21.5	— 5.8	84	ne.	23	10.3	.....	.....	10 n	.....	.....	0.01	0.3	light snow	B. A. Blundon.
San Francisco, California	30.26	768.6	30.33	770.4	48	8.9	81	w.	10	4.5	.....	4 cs	0	nw.	.....	0.04	1.0	fair	N. Gorom.
Santa Fé, New Mexico	23.08	586.2	30.13	765.3	39.2	4.0	42	se.	3	1.3	.....	9 k	0	sw.	.....	0	0	cloudy	H. U. Jones.
Savannah, Georgia	30.18	766.6	30.28	769.1	53	11.7	83	nw.	1	0.4	.....	8 ck	fg.	sw.	.....	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.12	663.4	29.98	761.5	23	— 5.0	64	sw.	12	5.4	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.83	757.7	30.08	764.0	57	13.9	100	s.	0	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.72	729.5	30.05	763.3	27.5	— 2.5	79	sw.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.21	614.9	30.07	763.8	33.0	0.6	50	calm	0	0	.....	0	2 s	.....	.....	0	0	clear	N. D. Lane.
Sitka, Alaska	29.50	749.3	29.57	751.1	38.1	3.4	82	e.	11	4.9	.....	.....	10 ks	.....	e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.50	749.3	30.00	762.0	49.0	9.4	93	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.23	767.8	30.27	768.8	50	10.0	93	w.	4	1.8	.....	1 c	9 s	.....	w.	0.04	1.0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.95	709.9	30.09	764.3	29.2	— 1.6	87	s.	0	2.7	.....	.....	10 s	.....	sw.	0.02	0.5	cloudy	H. Clifford.
Springfield, Illinois	29.47	748.5	30.20	767.1	21	— 6.1	80	se.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	T. B. Jennings.
Springfield, Missouri	28.54	724.9	30.06	763.5	38	3.3	87	se.	12	5.4	.....	.....	10 ks	.....	se.	0	0	cloudy	J. H. Bryce.
Starkville, Miss.	29.71	754.6	30.21	767.3	50	10.0	86	s.	9	4.0	.....	0	6 s	.....	sw.	0	0	fair	C. Dill.
Stevenson, Fort, Dakota	27.82	706.6	29.88	758.9	5	—15.0	76	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	26.91	683.5	30.05	763.3	31	— 0.6	62	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass.	30.40	772.1	30.46	773.7	22.0	— 5.6	80	nw.	10	7.2	.....	5 k	0	w.	.....	0	0	fair	G. Liebmann.
Thomas, Camp, Arizona	27.21	691.1	30.04	763.0	30	— 1.1	88	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.64	752.8	30.38	771.6	12	—11.1	80	ne.	10	4.5	.....	2 cs	0	.....	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.53	699.2	30.03	762.7	40	4.4	59	se.	3	1.3	.....	6 cs	0	w.	.....	0	0	fair	J. L. Whiteside.
Umatilla, Oregon	29.70	755.9	30.14	765.5	35	1.7	89	e.	4	1.8	.....	6 k	4 s	nw.	.....	c	0	cloudy	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	41.7	5.4	46	sw.	.....	.....	1	3 cs	2 s	sw.	sw.	0	0	fair	D. Brooks.
Vicksburg, Mississippi	29.90	759.4	30.18	766.6	54.0	12.2	90	se.	8	3.6	.....	0	9 k	.....	s.	0	0	cloudy	James Keneally.
Visalia, California	29.90	759.4	30.30	769.6	33.8	1.0	93	s.	3	1.3	.....	0	fg.	.....	.....	0.01	0.3	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.21	614.9	30.00	762.0	31.8	— 0.1	65	w.	19	8.5	.....	0	1 k	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.31	769.9	30.43	772.9	23.0	— 5.0	100	ne.	0	2.7	.....	.....	10 n	.....	.....	0.09	2.3	light snow	B. M. Purssell.
West Las Animas, Colorado	25.76	654.3	29.90	759.4	27	— 2.8	56	n.	0	2.7	.....	10 cs	0	w.	.....	0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa.	29.82	757.4	30.45	773.4	13.5	—10.3	80	calm	0	0	.....	10 cs	0	.....	.....	0.02	0.5	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.21	767.3	30.27	768.8	50	10.0	93	nw.	3	1.3	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.69	652.5	30.23	767.8	34.5	1.4	76	sw.	7	3.1	.....	.....	10 s	.....	.....	0.25	6.3	cloudy	J. Grover.
Yankton, Dakota	28.57	725.7	29.99	761.7	15	— 9.4	97	s.	2	0.9	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. H. Atfield.
Yuma, Arizona	29.82	757.4	29.98	761.5	48.0	8.9	71	calm	0	0	.....	0	8 s	.....	sw.	0	0	cloudy	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6	.....	.....	52.0	11.1	82	calm	0	0	.....	7 k	1 s	w.	ne.	0.69	17.5	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.09	764.3	30.10	764.5	79	21.1	87	n.	1	0.4	.....	1 c	0	.....	.....	0.04	1.0	fine	Robert Johnston.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	77	25.0	86	e.	.....	.....	3	5 ck	5 k	e.	.....	0 950	1.3	.....	Dr. C. J. Herng.
Puerto Berrio, U. S. Columbia	29.42	747.3	29.98	761.5	78	25.0	84	calm	.....	.....	0	3 c	4 ks	nw.	calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.13	739.9	29.88	741.2	3.4	—15.9	78	ne.	.....	.....	2	.....	10 n	.....	.....	0.54	13.2	drizzling	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Wallos.
York Factory, B. A.	29.60	753.4	29.73	755.1	— 6.5	—21.4	80	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	Forrester & Wood

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
British Naval.																		
H. M. S. Amethyst, Port Stanley, Falkland Island†	30.27	768.8	44	6.7	88	ssw.			5		6	s.						showery.
H. M. S. Audacious, Hong-Kong, China	30.07	763.8	61	16.1	94	calm			0									d. clouds.
H. M. S. Boadicea, St. Helena Island	29.99	761.7				ene.			1-2		3							d. clouds.
H. M. S. Champion, Singapore, Malay Peninsula	29.90	759.4	80	26.7	91	nne.			1-2		6	ne.						d. clouds.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.28	769.1	39	3.9	81	ene.			1		10							overcast.
H. M. S. Comus, Payta, Peru	29.99	761.7	71	21.7	85	e.			1		6							d. clouds.
H. M. S. Constance, S. 21° 30, W. 38° 02′	29.97	761.2	81	27.2	74	nne.			5		3	e.				3	nne.	d. clouds.
H. M. S Curacoa, Yokohama, Japan	29.61	752.1	48.5	9.2	71	n.			1		10							raining.
H. M. S. Crocodile, N. 14° 56′ E. 54° 22′	30.04	763.0	75	23.9	72	ne.			2-3		1					sm'h		blue sky.
H. M. Dock-Yard, Bermuda, W. I.	30.35	770.9	60	15.6	85	calm			0		1							blue sky.
H. M. S. Dryad, N. 10° 00′ E. 83° 30′	29.92	760.0	79	26.1		nw.			1-2		8	ne.				2	ne.	misty.
H. M. S. Eclipse, N. 18° 54′ E. 72° 49′	29.82	757.4	76	24.4		w.			2		3							d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.89	759.2	79	26.1	86	ne.			1		3							d. clouds.
H. M. Fawn. S. 12° 24′, W. 9° 33′	30.05	763.3	76	24.4	84	ese.			2-3		2					1	ese.	blue sky.
H. M. S. Flying Fish, N. 29° 30′, E. 125° 25′	30.20	767.1	49.5	9.7	77	nw.			5-7		10					5	nw.	misty.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.01	762.2	59	15.0	88	calm			0		10							misty.
H. M. S Heroine, S. 30° 15′, W. 46° 25′	30.02	762.5	73	22.8	90	sse.			5-6		5	se.				5	se.	d. clouds.
H. M. S. Himalaya, N. 12° 46′, E. 45° 01′	30.08	764.0	83	28.3	87	ene.			3-4		2							blue sky.
H. M. S. Iron Duke, N. 30° 30′, E. 32° 32′	30.00	762.0	64	17.8	89	w.			2-3		4	nw.						d. clouds.
H. M. S. Kingfisher, Callao Bay, Peru	30.00	762.0	66	18.9		calm			0		10							foggy.
H. M. S. Lark, S. 34° 50′, E. 174° 49′	30.26	768.6	70.3	21.3	87	n.			3		5					sm'h		d. clouds.
H. M. S. Magpie, N. 34° 41′ E. 135° 12′	29.72	754 9	46.7	8.2	84	nnw.			3-6		10							raining.
H. M. S. Monarch, Port Said, Egypt	30.04	763.0	59	15.0	81	sw.			2-3		4							d. clouds.
H. M. S. Mutine, N. 19° 10′, W. 148° 25′	30.12	765.0	70.5	21.4		ene.			4		5					4	ene.	showery
H. M. S. Rocket, Valdivia, Chili	30.16	766.1	55	12.8	?	ese.			1		4							d. clouds.
H. M. Sarapis, N. 14° 26′ E. 52° 55′	30.04	763 0	74	23.3	59	ne.			2		3					1	ne.	d. clouds.
H. M. S. Superb, N. 35° 54′, E. 20° 27′*	29.82	757.4	50	10.0	71	wsw.			3-5		4	wsw.				5	sw.	squally.
H. M. S. Swiftsure, Bay of Payta, Peru	30.03	762.7	67	19.4	94	e.			1		6					1	s.	d. clouds.
H. M. S. Sylvia, S. 52° 56′, W. 73° 45′	30.08	764.0	48.2	9.0	91	n.			3		10							overcast.
H. M. S. Tourmaline, Bombay, India	29.94	760.5				nw.			3		5	w.						d. clouds.
H. M. Tyne, N. 14° 37′, W. 17° 56′	30.07	763.8	65	18.3	83	ene.			2-3		1					2	ene.	blue sky.
H. M. S. Woodlark, Bushire, Persia	30.09	764.3	62.5	16.9	66	wnw.			2-3		0					2	nw.	misty.
Portuguese Naval.																		
Tamega, Macao, China	30.16	766.1	64.4	18.0	87	calm			0		0							blue sky
United States Naval.																		
Navy Yard, Pensacola, Fla*	30.23	767.8	58	14.4	94	ne.	2	0.9			10		ne.	0	0			foggy.
Navy Yard, Portsmouth, N. H*	30.40	774.4	4	—15.6	?	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.58	751.3	45	7.2	88	n.			1		10		n.	0.05	1.3			light rain.
Adams, Sitka, Alaska†	29.55	750.6	38	3.3	80	calm			0		10		ssw.					cloudy
Alaska, Mare Island, Cal	30.26	768.6	46	7.8	92	calm			0		0			0	0			clear.
Alliance, Aspinwall, U. S. C	29.94	760.5	79	26.1	90	nw.			1		8		light	light	mod.			cloudy.
Brooklyn, Keel Point, Patagonia*	30.24	768.1	53	— 7.2	86	wsw.	3	1.3			0			0	0	sm'h		clear.
Colorado, New York, N. Y	30.50	774.7	19	— 7.2	100	ne.	6	2.7			10							snowing.
Enterprise, N. 27° 57′, W. 35° 29′*	30.29	769.4	70	21.1	95	ese.			5		5		calm			sm'h		fair.
Essex, Callao, Peru	29.95	760.7	66	18.9	94	calm			0		10							foggy.
Franklin, Norfolk, Va	30.27	768.8	33	0.6	90	n.	12	5.4			10		n.	0	0			cloudy
Galena, Montevideo, Uruguay*	30.22	767.6	65	18.3	73	s.			2		2					long	se.	clear.
Hartford, Callao, Peru*	29.92	760.0	66	18.9	100	calm			0		10					sm'h	s.	foggy.
Independence, Mare Island, Cal	30.33	770.4	45	7.2	92	n.			2		8		nw.	0	0			cloudy.
Iroquois, Callao, Peru	29.98	761.5	66	18.9	94	calm			0		10							foggy.
Jamestown, N. 33° 20′, W. 58° 02′	30.32	770.1	64	17.8	78	ne.			2		2		ene.			sm'h	nw.	fair.
Juniata, N. 38° 50′ E. 6° 24′*	30.06	763.5	59	15.0	100	s.			3		0			0	0	long	n.	clear.
Kearsarge, La Guayra, Venezuela	29.98	761.5	77	25.0	86	calm			0		2		calm			sm'h		fair.
Lackawanna, Honolulu Sandwhich, Islands*	30.15	765.8	73	22.8	67	nne.			3		8		ne.					cloudy.
Lancaster, Villefranche, France	29.94	760.5	45	7.2	84	nnw.			1		10		nw.					cloudy.
Michigan, Erie, Pa	30.18	766.6	22	— 5.6	72	e.			1		2		w.					fair.
Minnesota, New York, N. Y	30.45	773.4	19	— 7.2	100	ne.	4	1.8			10							snowing.
Monocacy, Nagasaki, Japan	30.02	762.5	48	8.9	62	nw.			2		5		nw.					fair.
New Hampshire, Newport, R. I	30.45	773.4	22	— 5.6	100	nne.			4		10		nne.			sm'h		cloudy.
Nipsic, N. 36° 06′ W. 12° 31′	30.44	773 2	61	16.1	88	nw.			3		5		nw.			long	nw.	fair.
Onward, Callao, Peru*†	30.10	764.5	65	18.3	94	calm			0		10							foggy.
Palos, Tientsin, China*	30.27	768.8	23	— 5.0	100	w.			1		0							clear.
Pensacola, Payta, Peru*	29.92	760.0	72	22.2	80	ese.	2	0.9			8		se.	0	0	sm'h		cloudy.
Portsmouth, N. 34° 32′, W. 61° 08	30.25	768.3	63	17.2	88	sse.			4		2					sm'h		clear.
Powhatan, Boston, Mass	30.49	774.4	10	—12.2	79	nw.			1		0							clear.
Quinnebaug, Genoa, Italy	29.95	760.7	45	7.2	76	ese.			1		8		calm					cloudy.
Ranger, N. 29° 34′, W. 115° 32′*	29.99	761 7	57	13.9	81	nw.			3		2		nw.	0	0	long	w.	fair.
Richmond, off Macao, China*	30.05	763.3	62	16.7	94	se.			2		0			0	0			clear.
Saratoga, New York, N. Y	30.48	774.2	19	— 7.2	?	nne.			2		10		nne.	0	0			overcast
St. Louis, League Island, Pa	30.43	772.9	19	— 7.2	84	nne.	14	6.3			10			0.10	2.5			snowing.
Tennessee, St. Thomas, W. I*	30.09	764.3	77	25.0	95	ene.	6	2.7			5			0.09	2.3			showery.
Vandalia, N. 20° 52′, W. 71° 16′*	30.11	764.8	77	25.0	86	ene.			4		2		ene.					fair.
Wabash, Boston, Mass	30.48	774.2	10	—12.2	79	nw.	3	1.3			0			0	0			clear.
Wachusetts, N. 29° 27′ W. 132° 44′	30.37	771.4	61	16.1	70	ne.			4		5		ne.			mod.	w.	fair.
Wyandotte, Washington, D. C	30.49	774.4	29	— 1.7	?				2		10		e.	0	0			cloudy.
Yantic, N. 12° 09′, W. 82° 31′	30.07	763.8	77	25.0	90	nne.			3		5					long	n.	fair.
Merchant Marine.																		
S. S. Grecian, N. 36° 02′ W. 15° 20′*	30.46	773.7	64	17.8	94	wnw.			2		8		wnw.	½ h'r	½ h'r	long	nw.	cloudy.
S. S. Scandinavian, N. 43° 10′, W. 58° 42′	30.36	771.1	20	— 6.7		nw.			3		8		nnw.	snow	snow	short	w.	d. clouds.
S. S. British Crown, N. 39° 42′, W. 71° 35′†	30.28	769.1	37	2.8		nne.			4		10			sleet	sleet	sm'h		sleeting.
S. S. Indiana, N. 40° 52′ W. 63° 44′			30	— 1.1	89	ne.			4		2		ne.			mod.	ne.	fine.
S. S. Lord Clive, Reedy Island, Delaware	30.36	771.1				nne.			3		10			snow	snow			snowing.
S. S. Lord Gough, N. 50° 12′ W. 32° 27′			36	2.2		s.			8		10		s.	0	0	long	nw.	threatening.
S. S. Ohio, N. 49° 36′, W. 30° 51′			42	5.6	91	wsw.			6		8		w.			h'vy	wnw.	snowing.
S. S. Pennsylvania, Philadelphia, Pa†	30.35	770.9	21	— 6.1	86	ene.			4		10		e.	0	0			overcast.
S. S. Stella, N. 40° 50′ W. 69° 06′	30.35	770.9	30	— 1.1		ne.			3		6		w.			2	s.	drizzling.
S. S. Anchoria, N. 47° 25′, W. 42° 25′						wsw.			9		5?		wsw.	sh's	sh's	h'vy	w.	clear.?
S. S. Bolivia, N. 51° 41′, W. 34° 32′	29.53	750.0	39	3.9	82	wnw.			2		10		w.	snow	snow	high	w.	snowing.
S. S. Dorian, N. 40° 24′, W. 24° 50′ *	30.32	770.1	60	15.6		var.			2		8		wnw.	0	0	h'vy	wnw.	fine.
S. S. Utopia, N. 42° 37′, W. 59° 56′†	30.48	774.2	22	— 5.6		ne.			3		7		ene.	0	0	sm'h	sw.	cloudy.
S. S. Ailsa, Kingston, Jamaica, W. I†	30.17	766.3	84	28.9	83	ne.			2		2		ne.	0	0	sm'h	e.	fair.
S. S. Antillas, N. 24° 35′ W. 73° 30′†	30.30	769.6				ne.			2		2		ne.	0	0	mod.	ne.	clear.
S. S. Ambrose, Manaos, Brazil†	29.98	761.5	79	26.1		calm			0		4?			2 h'r	2 h'r			cloudy.?
S. S. Landaff City, N. 51° 09′, W. 23° 48′ *†	29.65	753.1	44	6.7		w.			7				w.	sqll's	sqll's	h'vy	w.	cloudy.
S. S. Auckland, S. 34° 41′, W. 24° 58′	30.13	765.3	73	22.8	90	nnw.			3		6							blue sky.
S. S. British Merchant, N. 27° 58′, W. 125° 14′	30.28	769.1	59	15.0	88	ne.			4-5		6							d. clouds.
S. S. Caldew, S. 31° 39′, E. 31° 45′	29.95	760.7	73.7	23.2	93	s.			0		10							overcast.
S. S. City of Agra, S. 24° 24′, W. 30° 48′	30.15	765.8	81.5	27.5	93	ene.			4		2							d. clouds.
St. Kilda, N. 48° 20′ W. 14° 30′	29.90	759.4	48.3	9.1	72	wnw.			8-9		7							hailing
S. S. Scotia, N. 12° 41′, E. 45° 15′	30.04	763.0	83	28.3	58	e.			4		1							blue sky.
S. S. Lake Huron, N. 51° 12′, W., 9° 46′			32	0.0		w.			9		8		w.	snow	snow	h'vy	w.	
S. S. Bothnia, N. 40° 41′, W. 71° 00′	30.33	770 4	32	0.0	100	ne.			3		9		n.	snow	snow	sm'h		cloudy.
S. S. Marathon, N. 47° 10′ W. 36° 00′	29.84	757.9	47	8.3		wsw.			6		10		wsw.	6 h'r	6 h'r	high	w.	squally.
S. S. Parthia, N. 40° 59′, W. 60° 22′	30.42	772.7	39	3.9	82	ne.			3		10		wnw.	1 h'r	1 h'r	light	wew.	snowing.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MERCHANT MARINE—(Continued.																		
S. S. Pavonia, N. 51° 19′, W. 10° 28′	29.39	746.5	48	8.9	78	wnw.			7		8		w.	12 h'r	12 h'r	long	wnw.	squally.
S. S. Colima, N. 37° 14′ W. 71° 40′ †	30.15	765.8				ne.			4		7		nw.			mod.	ne.	cloudy.
S. S. Rhiwindda, N. 51° 25′, W. 14° — ′ *†	29.55	750.6	47	8.3		w.			7		6		w.	hail	hail	high		stormy.
S. S. Canada, N. 42° 07′, W. 63° 15′	30.52	775.2	14.0	—10.0		ne.			3	ck	o	ne.		o	o	sm'h	n.	covered.
S. S. France, N. 40° 34′, W. 73° 06′ †	30.41	772.4	44.6	7.0		nne.			4		10?		n.	snow	snow	sm'h	ne.	clear.?
S. S. Abyssinia, N. 51° 22′, W. 10° 05′	29.52	749.8	44	6.7	84	nw.			9		8		nw.	2 h'r	2 h'r	h'vy	nw.	hailing.
S. S. Wisconsin, N. 41° 40′, W. 64° 40′	30.28	769.1	26	—3.3		ene.			4		o			o	o			clear.
S. S. Bohemia, Hamburg, Germany						se.			8		10		se.	snow	snow			fair.
S. S. Rugia, N. 40° 30′, W. 68° 20′	30.45	773.4	30.5	—0.8		ne.			5		10		e.	snow	snow	sm'h	sw.	cloudy.
S. S. Silesia, Hamburg, Germany			28.2	—2.1		se.			5		2?		s.	o	o			cloudy*
S. S. Vandalia, Hamburg, Germany	29.27	743.4	33.8	1.0		s.			6–7		10		s.					snowing.
S. S. Wieland, N. 50° 15′, W. 21° 02′	29.85	758.2				w.			6		8		wnw.	hail	hail	long	w.	cloudy.
S. S. Mentmore, N. 37° 12′, W. 73° 42′*	30.25	768.3				nne.			5		5?		e.			sm'h	e.	clear?
S. S. Hevelius, S. 11° —′, W. 33° 30′†	30.12	765.0	82	27.8		sse.			5		2		sse.	o	o	sm'h		clear.
S. S. Virginian, N. 44° 05′, W. 51° 15′ *	30.18	766.6	28	—2.2		wnw.			5		8		wnw.	7 h'r	7 h'r	r'gh	w.	
S. S. Colorado, N. 27° 01′, W. 88° 51′ †	30.20	767.1	68	20.0		ese.			3		1		ese.	o	o	high	ese.	clear.
S. S. Rio Grande, N. 26° 00′, W. 78° 10′ †	30.19	766.8	77	25.0		ene.			2		4		ene.	o	o		ene.	clear.
S. S. San Marcos, N. 24° 36′, W 83° 10′	30.14	765.5	72	22.2		ne.			4		10		ne.	o	o	sm'h		cloudy.
S. S. Archimede, Messina, Sicily†	29.73	755.1	50	10.0	65	wnw.			4		4		wnw.	3 h'r	3 h'r			fair.
S. S. Alleghany, N. 38° —′, W. 75° 30′†	30.28	769.1	42	5.6		nne.			5		10			rain	rain			
S. S. Dominion, N. 43° 14′, W. 68° 54′ *†	30.50	774.7	26	—3.3		ene.			2		o			o	o	sm'h		clear.
S. S. Chalmette, N. 28° 35′, W. 88° 23′ †	30.17	766.3	70	21.1		se.			2		5		se.	2 h'r	2 h'r	sm'h		fair.
S. S. Lone Star, N. 32° 20′, W. 77° 55′ †	30.25	768.3	68	20.0		n.			1		2		calm	o	o	small	e.	fine.
S. S. Denmark, London, Eng †	29.39	746.5	39	3.9		wnw.			4		2?		wnw.	sh'rs	sh'rs			cloudy.?
S. S. Egypt, N. 46° 31′, W. 44° 39′ *†	30.14	765.5				w.			6		10		w.	7 h'r	7 h'r	long	w.	sleeting.
S. S. Erin, N. 51° 02′, W. 11° 31′	29.59	751.6	38	3.3		w.			6		5		w.	10 h'r	10 h'r	h'vy	w.	hailing.
S. S. Helvetia, Liverpool, Eng	28.86	733.0	35	1.7		ssw.			6		10		s.	13 h'r	13 h'r			raining.
S. S. Holland, N. 42° 48′, W. 55° 00′	30.24	768.1	32	0.0		nw.			4		8		wnw.	snow	snow	mod.	wnw.	fine.
S. S. City of Alexandria, N. 37° 07′, W. 74° 51′			51	10.6	?	ne.			5		10		ne.	12 h'r	12 h'r	h'vy	ne.	snow & fog.
S. S. City of Merida, N. 23° 09′, W. 82° 22′ †	30.11	764.8	71.6	22.0		calm			0		0			o	o			fine.
S. S. America, N. 40° 39′, W. 67° 35′ *	30.45	773.4	35.0	1.7	80	ene.			4		10			o	o	sm'h	ne.	overcast.
S. S. Braunschweig, S. 24° 40′, W. 42° 51′	29.86	758.4	80.0	26.7	87	ene.			3		2		ne.	o	o	light	nne.	fair.
S. S. Gen. Werder, N. 49° 54′, W. 16° 10′	29.73	755.1				w.			7		5		w.	3 h'r	3 h'r	h'vy	w.	h'y squalls.
S. S. Hohenstaufen, N. 12° 06′, W. 26° 56′	29.99	761.7	74.3	23.5		ne.			5		3		ne.	o	o	r'gh	ne.	fair.
S. S. Neckar, N. 46° 26′, W. 35° 58′	29.91	759.7	52.0	11.1	79	ssw.			8		8		ssw.	o	o	h'vy	sw.	fair.
S. S. Salier, N. 45° 14′, W. 50° 16′	30.18	766.6	23	—5.0		wnw.			6		10		wnw.	snow	snow	h'vy	wnw.	cloudy.
S. S. Strassburg, N. 46° 42′, W. 7° 38′	29.80	756.9			78	wnw.			2–7		8		w.	4 h'r	4 h'r	hv'y	wnw.	stormy.
S. S. Arabic, N. 36° 34′, W 159° 28* †	30.12	765.0	57	13.9	94	sw.			3		5?		wsw.	o	o	sm'h		clear.?
S. S. Belgic, N. 29° 30′, E. 127° 53′ *†	30.03	762.7	60	15.6	65	nw.			4		8		nw.	o	o	mod.	nw.	cloudy.
S. S. Coptic, N. 41° 42′, W. 134° 33′	30.24	768.1	52.5	11.4	93	sw.			4		5		sw.	10 h'r	10 h'r	mod.	s.	raining.
S. S. Gaelic, N. 22° 12′, E. 114° 13′	30.11	764.8	61	16.1	94	e.			4		4		ne.	o	o			clear.
S. S. Oceanic, San Francisco, Cal †	30.39	771.9	53	11.7	86	wsw.			3									cloudy.
S. S. City of Augusta, New York, N. Y†	30.43	772.9				nne.			0		9			o	o			cloudy.
S. S. Mississippi, N. 46° 14′, W. 124° 12′ *†	30.15	765.8	47	8.3		s.			3		8		s.			mod.	sw	cloudy.
S. S. Willamette, N. 42° 45′, W. 125° 00′†	30.23	767.8	47	8.3	85	s.			5		10		s.	0.05	1.3	mod.	w.	rainy.
S. S. Columbia, N. 39° 26′, W. 124° 02′ †	30.31	769.9	50	10.0	86	se.			2		10		se.			mod.	w.	cloudy.
S. S. Oregon, Portland, Oregon †	30.11	764.8	44	6.7	92	calm			0		8		sw.					cloudy.
S. S. Ancon, N. 35° 15′, W. 120° 56′†	30.25	768.3	52	11.1	73	ne.			3		0					sm'h		clear.
S. S. City of Chester, Hookton, Cal*†	30.29	769.4	38	3.3	72	w.			2		10							foggy.
S. S. G. W. Elder, Tacoma, Wash. Ter†	30.12	765.0	44	6.7	84	se.			1		2			light	light			squally.
S. S. Orizaba, N. 37° 12′, W. 119° ? 40′ *†	30.28	769.1	56	13.3	87	nw.			7		o			o	o	h'vy	wsw.	clear.
S. S. Queen of the Pacific, N. 45° 48′, W. 24° 06′ †	30.11	764.8				sw.			3		5?						w.	overcast?
S. S. State of California, San Francisco, Cal †	30.26	768.6	45	7.2	92	calm			0		o			o	o			clear.
S. S. Victoria, San Francisco, Cal* †	30.30	769.6	49	9.4		nnw.			2		2		nne.					fair
S. S. Australia, N. 10° 21′, W. 164° 05′ *†	29.85	758.2	76	24.4	80	ene.			4		3		e.	1 h'r	1 h'r	long	ene.	clear.
S. S. City of Pekin, N. 29° 15′, E. 167° 34′ †	30.06	763.5	61	16.1	66	ssw.			2		5		sw.			small	ne.	fair.
S. S. City of Rio de Janeiro, N. 15° 44′, W. 97° 08′			78	25.6	82	n.			2		4		e.	o	o	light	w.	fine.
S. S. City of Sydney, Sydney, N. S. W†	29.78	756.4	73	22.8	81	w.			2		5		w.	o	o	sm'h		fair.
S. S. City of Tokei, N. 34° 03′, E. 141° 25′†	29.80	756.9	66	15.6	?	se.			2		10		nnw.	rain	rain	small	se.	cloudy.
S. S. Colon, N. 12° 30′, W. 77° 01′ †	29.98	761.5	78	25.6		ne.			5		3		ne.	o	o	mod.	ne.	fair.
S. S. Grenada, Panama Panama†	29.96	761.0	75	23.9	90	nw.			1		2		nw.	2 h'r	2 h'r			clear.
S. S. San José, N. 22° 55′ W. 109° 07′ *†	30.04	763.0				nnw.			2		5 8		wsw.	o	o	light	wnw.	
S. S. Zealandia, S. 34° 02′, E. 169° 07′*	29.83	757.7	74	23.3	95	ene.			3		1		ne.					fine.
S. S. Muriel, N. 36° 20′, W. 71° 00′ *	30.26	768.6	59	15.0		n.			3		5			3 h'r	3 h'r	mod.	nne.	fair.
S. S. Caracas, N. 21° 45′, W. 68° 20′ †	30.22	767.6	78	25.6	80	e.			5		5		e.	1½h'r	1½h'r	r'gh	ene.	showery
S. S. Claudius, Colon, U. S. C.†	30.06	763.5	78.0	25.6	91	w.			2		8		n.	light	light	long	n.	fair.
S. S. Valencia, N. 18° 08′, W. 67° 58′ †	30.19	766.8	79	20.1	74	ne.			6		3		e.	2 h'r	2 h'r	h'vy	ne.	fair.
S. S. Belgenland, N. 42° 46′, W. 60° 05′ †	30.49	774.4	24	—4.4		wsw.			4		o		w.	1 h'r	1 h'r	sm'h	w.	squally.
S. S. Pennland, New York, N. Y	30.42	772.7	19	—7.2	91	ne.			2		10			snow	snow			threatening.
S. S. Rhynland, N. 48° 09′, W. 39° 00′	29.74	755.4	38	3.3	90	wsw.			9		7		w.			high	w.	squally.
S. S. Switzerland, N. 50° 07′, W. 28° 19′ †	29.69	754.1				sw.			6		10		sw.	hail	hail	h'vy	w.	cloudy.
S. S. Wuesland, Antwerp, Belgium	29.35	745.5	45	7.2		ssw.			6		5		ssw.	o.1	.3			fair.
S. S. Leerdam, N. 46° 54′, W. 39° 30′ *	29.07	753.6	47	8.3	88	s.			6		10		w.			h'vy	w.	showery.
S. S. Maas, Rotterdam, Holland	29.09	738.9	39.6	4.2		sw.			6		5		ne.	o	o			
S. S. Schiedam, N. 41° 21′, W. 63° 41′	30.37	771.4	47.8	8.8	89	ne.			4		7		wsw.	snow	snow	mod.	ne.	cloudy.
S. S. W. A. Scholten, N. 48° 33′, W. 25° 08′	29.96	761.0	44.6	7.0	92	wnw.			8		6		wsw.	sq 'lls	sq 'lls	high	sw.	fair.
S. S. Zaandam, N. 50° 21′, W. 22° 30′	29.78	756.4				w.			6		7 n		w.	rain	rain	6	w.	squally.
S. S. State of Florida, N. 40° 27′, W. 68° 49′			34	1.1		e.			4		9		ne.	sleet	sleet	mod.	e.	overcast.
S. S. State of Georgia, N. 50° 58′, W. 33° 19′†	29.57	751.1	36	2.2		wsw.			7		10		w.	hail	hail	r'gh	w.	squally.
S. S. Baltic, N. 42° 27′, W. 60° 46′ *	30.37	771.4	26	—3.3		nnw.			1		9		wnw.	o	o	light	nw.	overcast.
S. S. Germanic, N. 48° 19′, W. 31° 23′†	29.77	756.1	49	9.4		sw.			7		10		sw.	3 h'r	3 h'r	r'gh	wnw.	raining.
S. S. Marengo, N. 46° 31′, W. 41° 15′ *	29.80	756.9				wsw.			8		10		wsw.	7 h'r	7 h'r	high	wsw.	squally.
S. S. Otranto, N. 49° 19′, W. 47° 24′†	29.90	759.4	20	—6.7		nw.			7		8		nw.			cross	w.	cloudy.
S. S. Romano, New York, N. Y	30.37	771.4	21	—6.1		ne.			3		10			snow	snow			overcast.
S. S. Salerno, N. 43° 03′, W. 46° 53′	30.29	769.4	42	5.6		nw.			5		7		nw.	o	o	sm'h	nw.	cloudy
S. S. Catherine Whiting, Providence, R. I †	30.43	772.9				n.			1		o			o	o			
S. S. Norman, N. 39° 30′, W. 75° 12′						ne.			1				ne.	snow	snow			heavy snow
S. S. Saxon, Boston, Mass †	30.43	772.9	20	—6.7		nw.			3		2			o	o			fine.
MISCELLANEOUS.																		
Bg. Abbie Clifford. Havana, Cuba, W.I †	30.13	765.3	70	21.1		calm			0		8			o	o			
Schr. Abbie H. Gheen, Spring Wood Mills, S. C†	30.29	769.4	43	6.1		wnw.			5					o	o			clear
Bk. Aleira, N. 21° 06′, W 65° 26′	30.15	765.8				e.			4		2		ene.	2 h'r	2 h'r	mod.	e.	clear.
Bk. Alpha, Demerara, British Guiana, S. A*†	29.96	761.0	80	26.7		ene.			3		1			o	o			fair.
Schr. Anna A. Holton, Tampico Mexico†	30.07	763.8	73	22.8		w.			1		10			o	o	sm'h		foggy.
Bg. Annie R. Storer, S. 24° 29′, W. 41° 06′*	30.18	766.6				nne.			0		2		ne.	o	o	r'gh	ene.	fair.
S. S. Antonio Lopez, N. 37° 31′, W. 0° 40′	30.05	763.3	64	17.8	53	w.			1		5							fair.
Bg. Arthur, S. 28° 13′, W. 48° 27′ *†	30.14	765.5				se.			7		5		var.	1 h'r	1 h'r	high	var.	
Schr. A. R. Lewis, N. 21° 56′, W. 59° 48′			77	25.0		e.			5		5?		e.	shr's	shr's	r'gh	e.	clear.?
Bk. B. F. Watson, Hong Kong, China†	30.04	763.0	68	20.0		ne.			1		1		ene.	o	o			clear.
Bg. Belle of the Bay, Galveston, Texas †	30.04	763.0				sse.			5		o			o	o			foggy.
Blt. Bonny Doon, N. 25° 55′, W. 36° 15′* †	30.20	767.1				ese.			3		2		se.	o	o	long	ene.	clear.
Bk. Bremen, N. 23° 43′, W. 39° 12′ *	30.16	766.1				se.			1		3		se.	rain	rain	cross	var.	fair.
Bk. Champion, Philadelphia, Pa			40	4.4		sw.			3		10		nw.	snow	snow			snowing.
Bk. Commerce, N. 36° 32′, W. 6° 18′ †	30.18	766.6	58	14.4		nnw.			1		2		nnw.	o	o	sm'h	w.	fine.
S. Cornelius, N. 53° 55′, E. 2° 39′ *†	28.88	733.5	42.1	5.6		sw.			9		9		sw.	3 h'r	3 h'r	h'vy	sw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
								Force.	Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																	
Bkt. C. S. Bushnell, N. 37° 27′, W. 60° 40′						wsw.			3		8	wsw.	rain	rain	sm'h	w.	squally
S. S. D. J. Foley, N. 12° 16′, W. 77° 47′*†	29.97	761.2	80	26.7	87	ne.			6		3	ne.	0	0	r'gh	ne.	clear.
S. E. B. Sutton, N. 19° —′, W. 34° 20′†	30.20	767.1	74	23.3	81	e.			5		2	ene.	6 h'r	6 h'r	mod.	e.	fair.
Bk. E. D. Bigelow N. 42° 38′, W. 29° 30′ *†	30.20	767.1				wsw.			6		8	wsw.	0	0	cross	nw.	squally.
Schr. Edith R. Seward, N. 27° 43′, W. 70° 40′†	30.29	769.4	68	20.0		ese.			2		8	se.	0	0	r'gh	se.	cloudy.
Bk. Edmund Phinney, S. 33° 10′, W. 44° 35′ †	30.04	763.0				ssw.			6		1		4 h'r	4 h'r	r'gh	sw.	clear.
S. E. J. Spicer, N. 49° 07′, W. 18° 35′	29.85	758.2	52	11.1	100	nw.			9		10	nw.	rain	rain	high	nw.	raining.
Bk. E. L. Pettingill, S. 55° 33′, W. 75° 25′ *†	29.10	739.1	48	8.9		nw.			8		10	nw.	18 h'r	18 h'r	r'gh	wnw.	
Bk. Essex, S. 16° 34′, E 41° 55′ *†	29.62	752.3	84	28.9		nw.			8				rain	rain		wnw.	squally.
Schr. F. E. McDonald, Jacksonville, Florida†	30.19	766.8	56	13.3		calm			0		5		0	0			fine.
S. Festina Lente, N. 53° 48′, E. 3° 32′	28.85	732.8	44	6.7		sw.			10		10	sw.	sleet	sleet	h'vy	var.	cloudy.
U.S.F.C.S.S. Fish Hawk, Washington, D. C †	30.37	771.4	21	—6.1		ne.			1		10	calm					cloudy.
S. S. Foscolia, N. 52° 01′, E. 1° 34′						wsw.			10		2	wsw.	3 h'r	3 h'r			fair.
Bk. Freya, Matanzas, Cuba, W. I						ne.			1		2	ne.	1 h'r	1 h'r			fair.
S. Geo. Stetson, S. 29° —′, W. 46° —′ *†	30.00	762.0	72	22.2	67	s.			6		6	sw.			chop	sw.	cloudy.
S. Grecian, N. 23° 44′, W. 38° 10′†	30.22	767.6	72	22.2	90	ese.			3		5	var.	3 h'r	3 h'r	mod.	var.	rainy.
Bk. Grey Eagle, S. 10° 47′, W. 35° 25′ *†	29.90	759.4				ne.			2		10?	ne.	2 h'r	2 h'r	long	e.	clear?
Bk. Gronsvaer, Auckland, N. Z	30.21	767.3	72.2	22.3		ne.			5		3	ne.	0	0			fair.
Bk. Hattie G. McFarland, N. 9° 34′, W. 56° 33′*†	30.12	765.0	78	25.6		ne.			4		4	ne.	1 h'r	1 h'r	sharp	nne.	
Schr Hattie Weston, Port of Spain, Trinidad, W. I*†	30.05	763.3	77	25.0		e.			1		1	e.	4 h'r	4 h'r	sm'h		clear.
Bk. Heinrich & Tonio, N. 30° 00′, W. 38° 20′			72	22.2		ese.			4		9	ese.	3 h'r	3 h'r	light	ese.	rainy.
Bk. Horace Scudder N. 32° 10′, W. 71° 05′*†	30.25	768.3	69	20.6		ssw.			5		2	sw.			light	sw.	fine.
Schr. Isabel Alberto, New York, N. Y †	30.50	774.7				ne.			3		10	ne.	snow	snow			snowing.
Schr. James Slater, N. 16° 06′, W. 45° 52′*†	30.05	763 3	78	25 6		se.			1		0		1 h'r	1 h'r	mod	nne.	
Bk. Johanne, N. 18° 03′, W. 43° 58′ *†	30.04	763.0	75	23.9		s.			3		5	se.	2 h'r	2 h'r	sm'h	var.	fine.
Schr. John L. Thomas, N. 14° 56′, W. 75° 03′ *†	30.10	764.5				e.			3		1	ene.	¼ h'r	¼ h'r	mod.	e.	clear.
Bkt. Josephine, S. 34° 00′, W. 14° 41′†	30.26	768.6	76	24.4	64	ne.			4		2		½ h'r	½ h'r	sm'h		clear.
S. S. J. W. Wilson, Galveston, Texas*†	30.05	763.3	62	16.7		ese.			2		fg.		0	0			foggy.
Light House Tender Laurel, Tampa Bay, Fla†	30.17	766.3	65	18.3		ese.			2		2	ene.	1 h'r	1 h'r			clear.
Bg. Lilian, N. 25° 40′, W. 70° 20′†	30.31	769.9	75	23.9		e.			4		2	e.	½ h'r	½ h'r	mod.	var.	clear.
Bk. Louise Adelaide, Matanzas, Cuba, W. I						se.			2		5?	s.	2 h'r	2 h'r	sm'h	e.	
S. S. Malabar, N. 35° 00′, W. 50° 23′*†	30.30	769.6				nnw.			2		5	nw.	0	0	mod.	nw.	cloudy?
Bg. Mary A. Troop, N. 45° 10′, W. 19° 30′*†	30.18	766.6				nw.			6		3	nnw.	0	0	r'gh	nw.	clear.
Bk. Matilda C. Smith, N. 42° 17′, W. 40° 22′ †.	30.21	767.3				sw.			8		6	sw.	0	0	r'gh	con.	threatening.
Schr. Minnie A. Bonsall, Mayport, Fla †	30.27	768.8	64	17.8		calm			0								
S. M. P. Grace, S. 14° 10′, W. 28° 28′ *	30.01	762.2	76	24.4		ene.			4		3	ene.	0	0	sm'h	ese	
Bg. Myrtle, Barbadoes, W. I *†	29.90	759.4				calm			0		0		0	0			clear.
Bkt. Norena, Matanzas, Cuba, W. I *†	30.20	767.1				e.			1		0		0	0	mod	ne.	fine.
Bg. O. C. Clary, N. 39° 08′, W. 73° 55′ *†	30.42	772.7				ene.			3		10	e.					snowing.
Schr. Ocean Traveler, N. 22° 19′ W. 69° 45′†	30.14	765.5				ene.			5		4				h'vy	e.	clear.
Bk. Ottawa, Alicante Harbor, Spain*	30.06	763.5	63	17.2		nnw.			5		3?	nw.	0	0			cloudy.?
S. Paramita, San Francisco, Cal	30.30	769.6	46	7.8		e.			3				0	0			clear.
S. S. Peconic, N. 50° 48′, W. 9° 30′			40	4.4		wnw.			9			wnw.	hail	hail	h'vy	wnw.	cloudy.
S. S. Raleigh, Matanzas, Cuba, W. I *†	30.05	763.3	74	23.3		calm			0		0		0	0			
Bk. Reindeer, Martinique, W. I*	30.15	765.8				ene.											squally.
S. Rudolph, N. 43° 17′ W. 27° 36′	30.01	762.2	53.5	11.9		wsw.			5		9	var.	1 h'r	1 h'r	high	var.	hazy.
S. Sacramento, S. 31° 45′, W. 29° 07′*†	30.23	767.8	81	27.2	83	nnw.			6		3	nnw.	0	0	mod.	nw.	fine.
Bk. Saga, N. 37° 58′, W. 62° 30′			57	13.9		n.			4			var.	19 h'r	19 h'r	4	nnw	raining.
Schr. S. B. Hubbard, Mayport, Fla*†	30.30	769.6	55	12.8		calm			0		0		0	0			fine.
Bk. Southern Belle, N. 27° 50′, W. 68° 50′*†	30.20	767.1	70	21.1		ene.			4		5	e.	0	0	sm'h		fair.
S. Sovereign of the Seas, S. 20° 56′, W. 123° 24′ *†	30.18	766.6	78	25.6	86	e.			2		2	e.	0	0	long	sw.	clear.
Bk. Sunbeam, Lisbon, Portugal *†	30.33	770.4	61	16.1	88	wnw.			5		8	wnw.	4 h'r	4 h'r			cloudy.
S. S. Sunbeam, N. 49° 58′, W. 2° 28′	29.43	747.5	49	9.4	78	wsw.			6		8	wsw.	3 h'r	3 h'r	5	w.	showery.
S. Titan, N. 2° 54′, W. 29° 28′*†	30.00	762.0	83	28.3	87	se.			2		1	se.	0	0	mod.	nnw.	fair.
Bk. Wandering Jew, Montevideo, Uruguay †	30.30	769.6	70	21.1		se.			7		4	se.	0	0			clear.
Schr. Wm. Wiler, N. 21° 10′, W. 62° 30′†	30.11	764.8				ene			6		2	ese.	0	0	r'gh	e.	squally.
Bk. Xenia, N. 3° 43′, W. 27° 05′ *†	30.01	762.2	83	28.3		var.			2		7	wsw.	6 h'r	6 h'r	cross	var.	cloudy.

International Chart I. January 26, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.

W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 27. 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours	.....	.....	30.37	771.3	61.2	16.2	87	se.	.....	.....	1	.....	1	.....	.....	0	0	very fair...	Malaterre.
Algiers	.....	.....	30.24	768.0	59.7	15.4	75	nnw.	.....	.....	3	.....	4	.....	.....	0	0	cloudy	Thève.
La Calle	.....	.....	30.12	765.1	62.6	17.0	66	n.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair...	Fonfréde.
Tunis	.....	.....	30.05	763.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.35	770.9	56.8	13.8	69	e.	.....	.....	2	.....	3	.....	.....	0	0	pretty fair...	Pérès.
Tebessa	.....	.....	30.21	767.4	47.8	8.8	84	n.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair...	Dognon.
Geriville	.....	.....	.....	.....	46.4	8.0	64	nne.	.....	.....	2	.....	4	.....	.....	0	0	cloudy.....	Louchamp.
Laghouat	.....	.....	30.33	770.4	59.0	15.0	45	n.	.....	.....	4	.....	4	.....	.....	0	0	cloudy	Abraham.
Biskra	.....	.....	30.24	768.0	70.9	21.6	44	nw.	.....	.....	3	.....	0	.....	.....	0	0	clear.....	Malau.
Australian.																			
Melbourne, Victoria	30.02	762.5	30.11	764.8	60.8	16.0	68	sse.	9	4.0	.....	.....	0	.....	.....	0	0	very fine...	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29 43	747.5	30.00	762.1	33.4	0.8	71	sw.	.....	.....	2	.....	3	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.10	739.1	29.89	759.3	34.2	1.2	96	ne.	1.8	0.8	.....	.....	10	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	28.96	735.5	29.87	758.8	31.6	— 0.2	90	calm	.....	.....	0	0	10 s	.....	s.	0	0	.....	Julius Mikolik.
Gratz	28.67	728 2	29.99	761.7	35.4	1.9	84	s.	.....	.....	1	.....	3	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.43	722.1	29.93	760.1	29.3	— 1.5	100	ese.	.....	.....	1	.....	10	.....	.....	0.154	3.9	snowing.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.66	728.0	30.00	763.4	35.6	2.0	78	wsw.	.....	.....	3	.....	10	.....	.....	0.059	1.5	sleeting	The Staff.
Lemberg	28.85	732.9	29.90	759.5	23.9	— 4.5	70	w.	.....	.....	1	.....	10	.....	.....	0.142	3.6	.....	Dr. T. Stanecki.
Neu Schmecks	26.37	669.9	29.84	757.9	32.7	0.4	46	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	29.90	759 5	30.02	762.5	37.4	3.0	90	nnw.	.....	.....	1	.....	9	.....	.....	0	0	.....	I. R.Hydrographic Office.
Szathmar	29.39	746.6	29.85	758.2	31.8	— 0.1	100	w.	.....	.....	1	.....	10	.....	.....	0.189	4.8	.....	Joseph Midliuszay, S. J.
Szegedin	29.04	752.9	29.94	760.4	30.6	— 0.8	90	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.92	760.0	30.02	762.5	37.8	3.2	80	nw.	.....	.....	1	.....	10	.....	.....	0.039	1.0	.....	Royal Academy.
Vienna	29.24	742.8	29.98	761.6	39.2	4.0	61	w.	.....	.....	2	.....	2	.....	.....	0.012	0.3	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.03	737.3	29.13	739.9	34.3	1.3	80	ssw.	12	5.4	.....	.....	7	.....	.....	0.150	3.8	d. clouds	W. Boswell
Armagh, Observatory	28.74	730.0	28.98	736.1	38.9	3.8	89	ssw.	21	9.4	.....	.....	3	.....	.....	.....	.....	squally.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.15	740.4	46.9	8.3	75	wsw	31	13.9	.....	.....	9	.....	.....	.....	.....	overcast.....	John Hartnup.
Bolton, Sharples	28.64	727.4	29.17	740.9	34.8	1.6	97	s.	.....	.....	.....	.....	10	.....	.....	.....	.....	raining.....	Thomas Mackereth.
Bradford, Yorkshire	28.78	731.0	29.18	741.2	37.5	3.1	95	sw.	.....	.....	2	.....	10	.....	.....	0.71	18.0	raining.....	McLandsborough&Preston.
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	80.0	26.7	69	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl.J.Surgenor, A.H.C.
Cardington	.....	.....	.....	.....	48.0	8.9	81	sw.	.....	.....	9.0	.....	10	.....	.....	.....	.....	overcast.....	John McLaren.
Chatham, School M. E	29.46	748.3	29.59	751.6	40.3	7.9	90	sw.	.....	.....	4	.....	10	.....	.....	blank	blank	misty.....	Corpl. G. A. Pickles.
Falmouth, Observatory	29.38	746.2	29.61	752.1	50.6	10.3	78	sw.	.....	.....	7	.....	10	.....	.....	.....	.....	showery.....	The Staff.
Fort Napier, Natal	27.77	705.3	29.99	761.7	68.0	20.0	74	s.	.....	.....	3	.....	9	.....	.....	.....	.....	overcast.....	Corpl. F. Milner, A. H. C.
Galway	29.00	736.6	29.04	737.6	46	7.8	69	sw.	.....	.....	8	.....	9	.....	.....	0.46	11.7	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.40	772.1	30.45	773.4	62.0	16.7	96	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	d. clouds.....	Sgt. J. Norris, A. H C.
Glasgow, Observatory	28.82	732.0	29.02	737.1	34.6	1.4	89	ese.	.....	.....	3	.....	10	.....	.....	.....	.....	snowing.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.36	745.7	29.53	750.0	49.1	9.5	76	sw.	.....	.....	8	.....	8	.....	.....	.....	.....	raining.....	The Staff.
Guernsey	29.48	748.8	29.78	756.4	50.0	10.0	82	sw.	.....	.....	5	.....	8	.....	.....	.....	.....	squally.....	A. Collenette, F. M. S
Kew, Observatory	29.50	749.3	29.54	750.3	49.1	9.5	70	sw.	38	17.0	.....	.....	10	.....	.....	.....	.....	overcast.....	The Staff.
Leicester, Museum	29.06	738.1	29.31	744 5	44.5	6.9	91	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	raining.....	J. C. Smith.
Malta, Mediterranean	29.98	761.5	30.05	763.3	61.2	16.2	93	w.	.....	.....	2	.....	6	.....	.....	0	0	d. clouds.....	Corpl. Keene, A. H. C
Nassau, Bahamas	30.14	765 5	30.19	766.8	73.0	22.8	87	e.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe
Oscott, St. Mary's College	28.77	730 7	29.30	744.2	40.4	4.7	97	ssw.	.....	.....	7	.....	10	.....	.....	.....	.....	raining.....	Rev. Jas. W. Browne
Oxford, Radcliffe Obs'y	29.22	742.2	29.45	748.0	48.0	8.9	84	sw.	.....	.....	7	.....	10	.....	.....	.....	.....	showery.....	The Staff.
Plymouth	29.54	750.3	29.01	752.1	50.3	10.2	85	wsw.	.....	.....	6	.....	10	.....	.....	.....	.....	squally.....	John Merrifield.
Sandwick Manse, Orkneys	28.93	734.8	29.04	737.6	34.8	1.6	90	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	blue sky.....	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.76	755.9	29.83	757.7	38.6	3.7	89	n.	.....	.....	2	.....	10	.....	.....	.....	.....	misty.....	W. H. Lyne.
Sheffield	28.88	733.5	29.16	740.7	41.9	5.5	83	sw.	.....	.....	4	.....	10	.....	.....	0.50	12.7	raining	W. F. Cooper.
Silloth Rectory	29.00	736.6	29.03	737.3	36.5	2.5	95	wsw.	.....	.....	1	.....	10	.....	.....	0.120	3.0	threatening.	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.17	740.9	38.2	3.4	94	sw.	8	3.6	.....	.....	10	.....	.....	blank	blank	overcast.....	Rev. S. J. Perry.
Stratfield Turgiss	29.33	745.0	29.55	750.6	49.0	9.4	80	sw.	.....	.....	5.0	.....	10	.....	.....	.....	.....	raining.....	Rev.O.H.Griffiths, F.M.S.
Truro, Royal Institution	29.62	752.3	29.66	753.4	52	11.1	72	w.	.....	.....	7	.....	10	.....	.....	.....	.....	raining.....	W. Newcombe.
Valencia, Observatory	29.38	746.2	29.40	746.7	44.9	7.2	71	w.	56	25.0	.....	.....	8	.....	.....	blank	blank	squally.....	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	— 5	—20.6	.....	calm	0	0	.....	.....	10 ks	.....	.....	0	0	overcast.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.22	767 6	30.27	768.8	4	—15.6	87	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	H. J. Cundall, C. E
Chatham, N. B*	30.19	766.8	30.27	768.8	—12	—24.4	100	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	G. A. Blair
Cornwall	29.73	755.1	29.94	760.5	4.0	—15.6	100	e.	.....	.....	1	.....	10 n	.....	.....	0.10	2.5	snowing.....	Jas. Smith, M. A.
Dalhousie	30.19	766.8	30.25	768.3	— 7.0	—21.7	.....	calm	.....	.....	0	2k	0	.....	.....	0	0	d. clouds.....	H. A. Johnson.
Father Point, Quebec*	30.10	766.1	30.18	766.6	2	—16.7	91	sw.	5	2.2	.....	5 c	5 s	calm	calm	0	0	cloudy.....	J. McWilliams.
Fort Garry, Manitoba*	29.03	737.3	29.90	761.0	3	—16.1	63	n.	9	4.0	.....	.....	10 s	.....	n.	inap.	inap.	cloudy.....	James Stewart.
Fredericton	30.27	768.8	30.35	770.9	—15.9	—26.6	100	nw	1	0.4	.....	.....	10 s	.....	.....	0	0	overcast.....	Prof. Harrison, L. L. D.
Granton	28.67	728.2	29.80	756.9	35.0	1.7	100	sw.	9	4.0	.....	.....	10 n	.....	.....	0.25	6.3	raining.....	Jas. Grant.
Halifax, N. S*	30.20	767.1	30.34	770.6	7	—13.9	100	w.	3	1.3	.....	2 cs	sk.	.....	.....	0	0	fair.....	A. Allison.
Hamilton	29.39	746 5	29.79	756.7	38.0	3.3	90	sw.	.....	.....	3	10 cs	0	sw.	.....	0.15	3.8	rain & snow	Geo. Dickson, B. A.
Kingston, Ontario*	29.50	749.3	29.80	758.4	25	— 3.9	92	s.	13	5.8	.....	.....	10 n	.....	.....	0.18	4.6	light snow...	A. P. Knight, M. A
Montreal, Quebec*	29.84	757.9	30.07	763.8	— 6	—21.1	95	s.	8	3.6	.....	.....	10 n	.....	.....	0.02	0.5	light snow..	C. H. McLeod, C. E.
Ottawa	29.68	753 9	29.95	760.7	3.1	—16.1	91	se.	.....	.....	2	.....	10 s	.....	.....	0.30	7.6	light snow...	A. McGill, M. A.
Parry Sound, Ontario*	29.02	737.1	29.75	755.6	18	— 7.8	80	s.	7	3.1	.....	.....	10 n	.....	s.	0.15	3.8	cloudy.....	Rev. R. Mosley.
Peterboro	29.02	737.1	29.81	757.2	21.4	— 5.9	80	calm	.....	.....	0	.....	10 n	.....	.....	0.40	10.2	snowing.....	J. Dixon, B. A.
Port Dover, Ontario	29.10	739.1	29.81	757 2	38	3.3	100	sw.	18	8.0	.....	.....	10 n	.....	sw.	0.27	6.9	threatening.	H. Morgan.
Port Stanley, Ontario	29.18	741.2	29.84	757.9	34	1.1	96	w.	8	3.6	.....	.....	fg.	.....	.....	0.30	7.6	light rain....	M. Payne.
Quebec, Quebec*	29.80	758.4	30.23	767.8	— 7	—21.7	100	calm	.....	.....	0	.....	fg.	.....	.....	0	0	foggy.....	Capt. Ashe, R. N
Rockliffe, Ontario*	29.37	746.0	29.87	758.7	6	—14.4	66	e.	10	4.5	.....	.....	10 n	.....	.....	0.30	7.6	heavy snow	W. H. McIntyre.
Saugeen, Ontario*	29.01	736.8	29.74	755.4	33	0.6	90	sw.	18	8.0	.....	.....	10 s	.....	.....	0	0	cloudy	
St. Andrews, N. B	30.23	767.8	30.28	769.1	7	—13.9	91	calm	0	0	.....	.....	10 n	.....	.....	0	0	cloudy.....	
St. John, N. B	30.18	766.6	30.37	771.4	2.0	—16.7	100	n.	1	0.4	.....	0	5 ks	.....	.....	0.31	7.9	d. clouds.....	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.12	765.0	19.4	— 7.0	.....	nw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	The Commandant.
Stratford	28.48	723.4	29.79	756.7	35.0	1.7	95	w.	11	4.9	.....	.....	10 s	.....	.....	0.177	4.5	overcast.....	C. J. Macgregor, M. A.
Sydney, C. B*	30.19	766 8	30.26	768.0	— 1	—18.3	100	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	T. C. Hill, C. E.
Toronto, Ontario*	29.42	747.3	29.82	757.4	32	0.0	96	e.	7	3.1	.....	.....	10 n	.....	.....	0.15	3.8	cloudy.....	Magnetic Observatory.
Windsor	30.18	766.6	30.28	769 1	0.0	—17.8	100	s.	4	1.8	.....	.....	10	.....	.....	0	0	overcast.....	Prof. W. H. Butler.
Woodstock	28.73	729.7	29.81	757.2	37.6	3.1	97	sw.	19	8.5	.....	.....	10 s	.....	.....	0.42	10.7	foggy.....	Prof. Wolverton, M. A.
Yarmouth, N. S*	30.22	767.6	30.29	769 4	27	— 2.8	88	w.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy.....	Lt. F. L. Wilmot, R. A.
Cape Colony.																			
Cape St. Francis Lt. House	30.26	768 6	30.29	769.4	70.5	21.4	71	se.	7.0	3.1	.....	.....	10 ks	.....	.....	0	0	hazy.....	John Duthie.
Springbok Fontein	27.86	707.6	.....	.....	85	29.4	49	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Sung-shú-chwang	24.24	615.7	.....	.....	18.9	— 7.3	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	foggy	
Tchang-kia-tchouang	30.25	768.3	30.36	771.1	29.3	— 1.5	96	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	**Mission, S. J.**
Zi-Ka-Wei, near Shanghai	30.21	767.4	30.24	768.1	38.1	3.4	83	e.	10.5	4.7	.....	.....	10	.....	.....	0	0	covered	**M. Marc Dechevrens, S.J**
Danish.																			
Copenhagen	29.37	746.1	29.42	747.3	35.1	1.7	90	sw.	20	9	.....	.....	10	.....	.....	.....	.....	hazy	**Oversergent Fischer.**
Fanoe	29.39	746.5	29.41	747.0	36.5	2.5	89	w.	.....	.....	4	.....	6	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	29.11	739.4	29.15	740.5	2.1	—16.6	90	nne.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	**S. Kleinschmidt.**
Ivigtut, Greenland	29.03	737.3	29.05	737.8	— 5.8	—21.0	.....	calm	.....	.....	0	.....	3	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.21	741.8	29.25	743.0	— 4.4	—20.2	.....	s.	.....	.....	2	.....	7	.....	.....	.....	.....	snowing	
Stykkisholm, Iceland	28.83	732.3	28.87	733.4	24.1	— 4.4	84	e.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	**A. O. Thorlacius.**
Thorshavn	28.93	734.7	28.96	735.6	35.6	2.0	84	sw.	7	3	.....	.....	6	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Vesteryig	29.16	740.7	29.25	743.0	36.5	2.5	85	wsw.	.....	.....	6	.....	1	.....	.....	.....	.....	.....	**Loerer Oesterbol.**
Upernavik, Greenland	29.19	741.5	29.24	742.7	— 0.3	—17.6	.....	e.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	29.73	755.1	30.39	772 0	46.8	8.2	97	calm	.....	.....	0	.....	kn	.....	.....	0.063	1.6	.....	**M. Labroue, Director.**
Alençon, Normal School	29.48	748.7	30.03	762.7	40.6	4.8	93	s.	.....	.....	1	.....	n	n.	n.	0	0	.....	**M. Nicot, Director.**
Arras, Engineer School	29.60	751.7	29.86	758.4	39.2	4.0	.....	.....	.....	.....	4	.....	k; n	.....	.....	0.224	5.7	.....	**M. Fénéon, Command't.**
Avignon, Normal School	30.30	769.7	30.38	771.7	48.6	9.2	50	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	**M. Girand, Director.**
Bar-sur-Seine	29.58	751.4	30.16	766.1	39.4	4.1	83	sw.	.....	.....	2	.....	10	.....	.....	0.063	1.6	covered	**M. Saillard, Director.**
Beauvais, Normal School	29.70	754 3	29.97	761.2	41.2	5.1	81	ssw.	.....	.....	2	.....	10	.....	sw.	0.157	4.0	covered	**M. Frère Eugène Marie.**
Besançon, Normal School	29.29	743.9	30.21	767.3	40.6	4.8	71	s.	.....	.....	1	.....	.....	.....	ne.	0.189	4.8	.....	**M. Gobin, Director.**
Bordeaux, Observatory	30.06	763.5	30.33	770.3	53.2	11.8	68	sw.	.....	.....	3	.....	8	.....	w.	0.161	4.1	very cloudy	**M. Rayet, Director.**
Bourges, Normal School	29.68	753.9	30.25	768.3	45.5	7.5	80	s.	.....	.....	3	.....	n	.....	s.	0.20	5.	.....	**M. Malet, Director.**
Brest, Naval Observatory	29.71	754.7	29.95	760.8	50.7	10.4	86	sw.	.....	.....	4	.....	10	.....	sw.	0.165	4 2	.....	**M. de Kermaidé, Dir.**
Caen, Normal School	29.80	757.0	29.88	758.9	48.9	9.4	79	e.	.....	.....	2	.....	2	.....	e.	0.283	7.2	slightly cl'dy	**M. Berson, Director.**
Châlons-sur-Marne, N.Sch'	29 69	754.0	30.02	762.4	38.7	3.7	76	s.	.....	.....	4	.....	10	.....	.....	0.169	4.3	covered	**M. Jadot, Director.**
Charleville, Normal School	29.48	748.9	30.00	762.1	38.5	3.6	67	ssw.	.....	.....	1	.....	10	.....	.....	0.035	0.9	covered	**M. Grimard, Director.**
Clermont-Ferrand Obs'y	28.91	734.3	30.30	769.7	45.7	7.6	73	s.	.....	.....	1	.....	5	.....	.....	0.358	9.1	½ covered	**M. Allnard, Director.**
Cluny, Normal School	29.43	747.6	30.31	769.9	42.8	6	63	se.	.....	.....	4	.....	.....	.....	se.	0.319	8.1	.....	**M. de Villemontée, Dir.**
Commercy, Normal School	29.24	742 6	30.14	765.5	38.5	3.6	90	sw.	.....	.....	4	.....	5	kn	sw.	sw.	0.205	5.2	cloudy	**Dr. Coulet, Director.**
Gap, Normal School	27.69	703 2	30.30	769.5	42.1	5.6	52	.....	.....	.....	.....	.....	0	.....	.....	.....	0.28	7.	.....	**M. Jeangirard, Director.**
Gréasque, du Rhone	29.19	741.5	30.36	771.1	44.1	6.7	37	nw.	.....	.....	4	.....	1	.....	nw.	0.102	2.6	.....	**M. Kina, Director.**
Grenoble, Normal School	29.60	751.7	30.41	772.3	41.4	5.2	66	e.	.....	.....	1	.....	ckn	.....	nw.	0.181	4.6	.....	**M. Ablard, Director.**
Guéret	28 70	728.9	30.31	769.9	41.9	5.5	78	sw.	.....	.....	4	.....	n	.....	sw.	0.276	7.0	.....	**M. Delorme, Dir.**
Lamballe, Normal School	29.65	753.0	29.99	761.8	50.4	10.2	72	sw.	.....	.....	4	.....	5	.....	sw.	0.31	8.	cloudy	**M. Olliffranit, Director.**
Lescar, Normal School	29.80	757.0	30.38	771.6	53.6	12.0	80	wnw.	.....	.....	1	.....	5	.....	.....	0.492	12.5	cloudy	**M. Chauvin, Director.**
Lorient, Naval Observatory	29.95	760 6	30.05	763.2	52.5	11.4	83	sw.	.....	.....	4	.....	10	.....	.....	0.276	7.0	covered	**Lt. T. Carré, Director.**
Lyon, St. Genis-Laval	29.27	743.5	30.38	771.6	43.0	6.1	58	w.	.....	.....	1	0	8	cn	nw.	0.118	3.0	very cloudy	**M. André, Director.**
Mans, Normal School	29.78	756.3	30.10	764.4	44.1	6.7	85	sw.	.....	.....	3	.....	8	.....	w.	0.091	2.3	very cloudy	**M. Piboën, Director.**
Marseille, Observatory	30.04	763.0	30.32	770.0	48.2	9.0	48	nnw.	.....	.....	3.4	.....	1	.....	.....	0	0	.....	**M. Stephan, Director.**
Montlouis	25.05	636.3	29.89	759.3	38.3	3.5	48	sw.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	**M. Caré for Dr. Finss.**
Montpellier, Normal School	30.23	767.9	30.37	771.3	52.9	11.8	59	nw.	.....	.....	3	.....	1	.....	nw.	0	0	clear	**M. Galzin, Director.**
Nancy, Normal School	29.26	743.1	30.06	763.6	38.8	3.8	76	ssw.	.....	.....	2	.....	1	kn	.....	0	0	.....	**M. Husse, Director.**
Nantes, Observatory	30.04	763.1	30.07	763.7	53.4	11.9	71	sw.	.....	.....	2-3	.....	9	k; kn	.....	wnw.	0.150	3.8	.....	**M. Larocque, Director.**
Perpignan, Observatory	30.31	769.9	30.43	772.8	55.9	13.3	45	nw.	16.8	7.5	.....	.....	2	.....	nw.	nw.	0	0	.....	**Dr. Flues, Director.**
Pic-du-Midi, Summit	21.33	541.7	.....	.....	18.5	— 7.5	.....	nw.	.....	.....	2	.....	1	.....	nw.	0.276	7.0	clear	**M. Vaussenat.**
Privas, Normal School	29.24	742.7	30.35	770.8	43.5	6.4	65	nw.	.....	.....	1	.....	5	.....	nw.	nw.	0	0	cloudy	**M. Tallieu.**
Puy de Dôme Obs'y, Summit	25.21	640.4	.....	.....	25.9	— 3.4	100	w.	.....	.....	8	.....	10	.....	.....	1.331	33.8	foggy	**M. Allnard, Director.**
Rochefort, Naval Obs'y	30.24	768.0	30.27	768.8	51.8	11.0	77	sw.	.....	.....	3	.....	10	w.	s.	1.00	27.	raining	**Lt. E. Decante, Director.**
Roche-sur-Yon, N. School	29.94	760.5	30.16	766.0	52.3	11.3	77	sw.	.....	.....	4	.....	8	.....	sw.	0.173	4.4	very cloudy	**M. Brotier, Director.**
Rodez, Normal School	28.19	716.0	30.43	772.8	41.0	5	84	w.	.....	.....	1	.....	8	.....	e.	0.24	6.	clear	**M. Seger, Director.**
Rouen, Normal School	29.82	757.4	29.87	758.6	36.7	2.6	68	sw.	.....	.....	1	.....	5	se.	.....	0.291	7.4	cloudy	**M. Moutilot.**
Saint Lô	.....	.....	.....	.....	47.5	8.6	78	w.	.....	.....	1	.....	10	w.	w.	0.03	10.	covered	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.89	759.1	30.05	763.3	39.9	4.4	83	ssw.	.....	.....	3	.....	10	.....	.....	0.043	1.1	.....	**M. Renou, Director.**
Toulouse, Observatory	29.71	754.5	30.44	773 1	51.8	11.0	70	w.	.....	.....	3	.....	5	.....	nw.	0.087	2.2	cloudy	**M. Baillaud, Director.**
Tours	30.00	761.9	30.17	766.4	47.8	8.8	78	s.	.....	.....	1	.....	8	.....	sw.	0.105	4.2	very cloudy	**M. de Tastes.**
Versailles, Observatory	29.53	750 0	30.02	762.5	39.2	4.0	83	sw.	.....	.....	3	.....	.....	.....	.....	0.094	2.4	.....	**Dr. A. Bérigny, Director.**
Sub-series.																			
St. Martin du Hinx	30.27	768.8	30.42	772.6	53.6	12.0	59	w.	17.7	7.9	.....	0	1	k	w.	0.276	7.0	.....	**M. Cartier, Director.**
German.																			
Ansbach	28.56	725.5	30.07	763 7	34.9	1.6	77	sw.	.....	.....	4	.....	8	.....	sw.	0.043	1.1	.....	**Prof. Jnedt.**
Bamberg	29.11	739.3	29.95	760.7	36.5	2.5	73	nw.	.....	.....	3	.....	5	.....	wnw.	0.079	2.0	.....	**Prof. Dr. Hoh.**
Berlin	29.64	752.8	29.79	756.6	35.6	2.0	81	w.	.....	.....	3	.....	10	.....	.....	0.244	6.2	.....	**Dr. Lensch.**
Breslau	29.34	745.2	29.87	758.6	36.0	2.2	79	w.	.....	.....	2	.....	4	.....	s.	0.064	0.1	.....	**Royal University Obs'y.**
Carlsruhe	29.66	753.3	30.11	764 9	38.8	3.8	68	sw.	.....	.....	10	.....	8	.....	sw.	0.421	10.7	.....	**Albert Senz.**
Cassel	29.10	739.2	29.82	757.3	37.0	2.8	69	s.	.....	.....	4	.....	8	.....	sw.	0.094	2.4	snowing	**Dr. H. Möhl.**
Frankfort-on-the-Main	29.61	752.1	29.98	761.6	40.5	4.7	68	wsw.	.....	.....	2	.....	8	.....	.....	0.071	1.8	.....	**Physical Society.**
Friedrichshafen	28.70	729.0	30.19	766.8	38.1	3.4	61	sw.	.....	.....	8	.....	5	.....	w.	0.102	2.6	.....	**Wilhelm, Chief Tel.**
Hamburg	29.56	750.8	29.65	753.1	37.4	3.0	83	wsw.	.....	.....	6	.....	1	.....	sw.	0.039	1.0	.....	**E. Prelter.**
Kiel	29.53	750.0	29.54	750.4	36.1	2.3	87	sw.	.....	.....	4	.....	9	.....	.....	0.102	2.6	.....	**Prof. Dr. G. Karsten.**
Leipsic, Astron'l Obs'y	29.45	748.1	29.89	759.2	36.5	2.5	69	sw.	.....	.....	4	.....	9	.....	wsw.	0	0	.....	**H. Leppig, Asst.**
Magdeburg	29.59	751.6	29.78	756.5	38.1	3.4	76	wsw.	.....	.....	4	0	1	k	w.	0.126	3.2	.....	**Weather Observatory.**
Memel	29.75	755.6	29.80	756.8	30.9	— 1.6	84	s.	.....	.....	3	2	cs	0	.....	.....	.....	.....	**Issermann.**
Munich	28.20	716.2	30.06	763.5	35.6	2.0	67	w.	.....	.....	4	.....	9	.....	w.	0 150	3.8	.....	**Central Station.**
Neufahrwasser	29.73	755.1	29.74	755.5	34.2	1.2	78	se.	.....	.....	2	.....	1	.....	.....	0.004	0.1	.....	**A. Lothes.**
Neustadt, Palatinate	29.51	749 5	30.03	762 8	39.6	4.2	74	w.	.....	.....	4	.....	8	.....	w.	0.532	13.5	rainy	**Dicknether.**
Stuttgart	29.12	739 7	30.05	763.2	38.1	3.7	64	w.	.....	.....	5	.....	6	.....	w.	0.094	2.4	rain & snow	**Prof. Dr. Schoder.**
Wustrow	29.58	751.4	29.61	752 0	35.6	2.0	87	sw.	.....	.....	4	.....	10	8	.....	0	0	.....	**Profs. Brandes & Reimer.**
Greek.																			
Athens	29.48	748.9	29.87	758.8	52.9	11.6	.....	w.	.....	.....	4.0	0	3	k	.....	0.126	3.2	.....	**Schmidt & Wourtisch.**
Indian.																			
Kurrachee	29.91	759.6	29.96	761.0	68.9	20.5	23	nw.	23.0	10.3	.....	.....	0	.....	.....	0	0	blue sky	
Deesa	29.43	747.4	29.92	759.8	67.7	19.8	22	ssw.	13.0	5.8	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.92	759.9	29.96	760.9	73.6	23.1	61	nnw.	20.0	8.9	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.02	711.8	29.91	759.7	71.0	21.7	34	wnw.	21.0	9.4	.....	.....	6	.....	w.	0	0	d. clouds	
Belgaum	27.32	694.0	29.87	758.7	74.0	23.3	40	w.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.10	739.2	29.89	759.1	54.7	12.6	68	e.	2.0	0.9	.....	.....	3	.....	.....	0.02	0.5	d. clouds	
Roorkee	29.01	736.8	29.96	760.9	55.2	12.9	59	calm	1.0	0.4	.....	.....	2	.....	w.	0.36	9.1	.....	
Agra	29.37	746.1	29.96	761.1	61.3	16.3	51	calm	0	0	.....	.....	0	.....	.....	0.45	11.4	blue sky	
Nagpur	28.84	732.5	29.91	759.6	68.7	20.4	49	nnw.	3.0	1.3	.....	.....	2	w.	.....	0	0	d. clouds	
Jubbulpore	28.57	725.7	29.98	761.4	62.8	17.1	36	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.57	751.1	29.97	761.2	59.3	15.2	62	wsw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.62	752.2	29.94	760.6	60.3	15.7	69	nw.	2.0	0.9	.....	.....	0	.....	.....	0.02	0.5	blue sky	
Patna	29.75	755.6	29.94	760.6	60.0	15.6	91	ne.	6.4	2.9	.....	.....	2	ne.	ne.	1.01	25.6	blue sky	
Hazaribagh	27.86	707.6	29.95	760.8	57.5	14.2	74	nnw.	11.3	5.0	.....	.....	1	.....	.....	0.87	22.1	showery	
Cuttack	29.80	756.9	29.88	759.1	74.1	23.4	62	w.	2.0	0.9	.....	.....	8	.....	.....	0	0	d. clouds	
Calcutta, Allpore	29.88	759.0	29.90	759.5	69.0	20.6	68	nnw.	14.0	6.3	.....	.....	9	.....	w.	0	0	gloomy	
Dhubri	29.84	758.0	29.97	761.1	58.8	14.9	97	ne.	8 0	3.6	.....	.....	10	.....	sw.	0.30	7.6	overcast	
Chittagong	29.83	757.6	29.92	759.9	73.1	22.8	62	calm	3.2	1.4	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.61	752.2	29.96	761.1	59.7	15.4	92	ne.	2.0	0.9	.....	.....	10	sw.	sw.	0	0	gloomy	
Zanzibar	29.83	757.8	29.86	758.3	85.8	29.9	67	e.	9.6	4.3	.....	.....	3	.....	.....	0	0	d. clouds	
Jeypore	28.43	722.2	29.94	760.5	57.9	14.4	41	sw.	4.8	2.2	.....	.....	0	.....	.....	0	0	blue sky	
Bellary	28.34	719.8	.....	.....	84.6	29.2	36	nw.	8	3.6	.....	4	ck	0	.....	0	0	d. clouds	
Trichinopoly	29.59	751.6	.....	.....	84.8	29.3	51	calm	0	0	.....	.....	8	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.63	752.5	30.05	763.3	35.4	1.9	71	n.	0.7	0.3			10			0	0		Prof. Giovanni Clodig.
Milan	29.59	751.5	30.13	765.3	45.0	7.2	42	w.	6.9	3.1			0			0	0		Prof. Schiapparelli.
Padua	29.95	760 7	30.06	763.6	38.1	3.4	51	sw.	4.3	1.9			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.21	742.0	30.16	766.1	43.7	6.5	28	nw.	7.4	3.3			0			0	0		Prof. F. F. Denza.
Genoa	29.89	759.2	30.09	764.2	50.0	10.0	30	n.	8.1	3.6			0			0.039	1.0		Prof. G. M. Garibaldi.
Mondovi	28.16	715.3	30.17	766.2	41.4	5.2	39	w.			6		0			0	0		Prof. D. C. Bruno.
Pesaro	30.02	762.6	30.08	763.9	37.4	3.0	53	nw.	4.3	1.9			5			0	0		Prof. Luigi Guidi.
Florence	29.79	756.7	30.06	763.4	41.5	5.3	69	nw.			2		0			0	0		Prof. Costantino Pittei.
Leghorn	29.91	759.6	29.99	761.8	44.6	7.0	77	n.	8.7	3.9			3	ene.		0	0		Prof. P. Monte.
Rome	29.78	756.5	29.97	761.1	48.4	9.1	61	n.	4.3	1.9			3			0.122	3.1		Prof. P. Tachini.
Lecce	29.65	753.0	29.91	759.6	46.8	8.3	79	sse.	6.3	2.8			10			0.012	0.3		Prof. C. de Giorgi.
Cosenza	29.00	736.7	29.92	760.0	46.0	7.8	72	w.	1.8	0.8			10	sw.		0.488	12.4		Prof. D. Conti.
Cagliari	29.97	761.2	30.17	766.3	54.1	12.3	34	nw.			8		3	nw.		0.039	1.0		Prof. A. Pacinotti.
Palermo	29.78	756.5	30.04	763.0	57.9	14.4	53	wnw.	18.1	8.1			6	nw.		0.146	3.7		Prof. G. Caccintore.
Syracuse	29.90	759.4	29.94	760.5	58.3	14.6	38	nw.	17.4	7.8			6	wnw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.38	746.3	29.92	760.0	46.0	7.8	79	ne.	1.3	0.6			8	nw.		0.161	4.1		Prof. F. Brioschi.
Stelvio	21.98	558.4			7.9	—13.4	100	ne.			4		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.03	559.7			11.5	—11.4	68	n.			6		5			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.83	757.7	29.86	758.5	22.7	— 5.1	100	nw.			4	0	6 ck		nw.	0.035	0.9	fair	Hattori.
Awomori	29.70	754.3	29.73	755.3	21.0	— 6.1	85	n.	31.1	13.9			10 n			0.033	0.8	light snow	K. Ogawa.
Hakodate	29.67	753.6	29.68	754.0	21.5	— 5.8	84	nw	12.6	5.6		1	0			0	0	clear	
Hamamatsu	29.97	761.2	30.00	761.9	34.9	1.6	50	nw.			6	0	0			0	0	clear	
Kagoshima	30.10	766.1	30.17	766.4	42.2	5.7	73	nw.			2	0	0			0	0	clear	G. Miyanohaza.
Kioto	29.94	760 5	30.13	765 2	33.3	0.7	72	sw.	2.7	1.2			9 n			inap.	inap.	light snow	M. Tojima.
Kochi	30.10	764.0	30.12	765.1	38.1	3.4	75	e.	4.0	1.8		0	3			0	0	clear	K. Kusunose.
Miasaka	30.14	765.5	30.17	766.2	41.9	5.5	74	calm			0	0	0			0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	29.98	761.4	30.19	766.8	39.8	4.3	80	nw.	0.6	0.3		0	0			0	0	clear	S. Takehayashi.
Nigata	29.92	759.9	29.90	761.0	30.8	— 0.7	73	wnw.	24.0	10.7			10 ck		w.	0.050	1.3	overcast	M. Morita.
Nobiru	29.76	756.0	29.78	756.4	28.1	— 2.2	79	wnw.	24.1	10.7		0	7 n					snowy	H. Midaushina.
Numazu	29.81	757.1	29.84	758.0	36.6	2.6	69	calm			0	0	0			0.827	21.0	clear	R. Kaneda.
Sakai	30.16	766.1	30.17	766.4	34.9	1.6	86	ne.			2		10 n			0.051	1.3	snowing	K. Yamawchi.
Supporo					19.0	— 7.2	86	nw.	17.0	7.2			10		n.			snowing	
Tokei Obs'y, Yeddo	29.81	757.1	29.89	759.1	35.7	2.1	50	nnw.	13.6	6.1		0	0			0	0	clear	The Staff.
Wakayama	30.07	763.9	30.13	765.3	34.9	1.6	64	ne.	9.1	4.1		0	1 ks			0.002	0.1	clear	Y. Kuwamuea.
Osaka	30.12	765.1	30.14	765.5	34.1	1.2	72	nne.	5.0	2.2			10 ck			0	0	cloudy	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.64	752.8	29.82	757.4	80.8	27.1	70	ne.	12.5	5.6		4 cs	3 ck 6 ks	an	w.	ne.	0	0	cloudy	Oliver & Figon.
MEXICAN.																			
Altata					57	13.9	96	n.										clear	H. Diaz Pena.
Guanajuato	23.69	601.7	29.91	759.6	49.1	9.5	95	ene.	inap.	inap.		3 c	0		sw.	inap.	inap.	foggy	Prof. Vicente Fernandez.
Leon	24.33	618.0	30.15	765.8	48.6	8.9	84	n.			1	6 c	0			0	0	½ cloudy	Prof. M. Leal.
Mazatlan	29.78	756.5	30.05	763.2	63.5	17.5	31	nw.	0.9	0.4		0	0			0	0	clear	F. Quijano, U. E.
Mexico, Central Obs'y	23.13	587.5	30.32	770.1	45.3	7.4	79	calm	0	0		0	1 s			0.114	2.9	clear	The Staff.
Morelia	24 26	616.2	30.16	766.1	49.1	9.5	74	e.			1	2 c	2 k	s.	s.	0	0	½ cloudy	M. Tena, M. D.
Pabellon	23.94	608.1	30.04	762.9	47.7	8.7	82	sw.			1	4 ck	0	sw.		0	0	½ cloudy	
Puebla, Catholic Institute	23 44	595.3	30.35	770.8	42.8	6.0	86	calm	0	0		0	3			0	0	clear	Prof. P. Spina.
Zacatecas	22.54	572.6	30.287	760.37	45.8	7.7	75	sw.	10.6	4.6		8 c	0	wsw.		0	0	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.74	755.5	29.74	755.5	37.8	3.2		s.			4					0	0		
Groningen	29.59	751.6	29.65	753.0	38.5	3.6		sw.			5					0.035	0.9		
Hellevoetsluis	29.74	755.4	29.74	755.4	38.5	3.6	80	sw.			4					0.205	5.2		
Utrecht	29.70	754 3	29.74	755.5	38.3	3.5	76	ssw.			4		8			0.154	3.9	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.84	757.9			75.0	23.9	94	sw.	0.5	0.2			10			0	0		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	28 97	735.8	29.03	737.4	33.1	0.6	89	se.	9	4			10					snowing	
Brono	29.05	737.7	29.08	738.7	27.5	— 2.5	52	se.	29	13			9			0	0		
Christiania	28.87	733.2	29.02	737.0	35.1	1.7	85	ese.	9	4			10			0.079	2.0		
Gjæsvær	29.24	742.6	29.26	743.2	34.5	1.4		s.			6		4						
Lodingen	29.22	742.2	29.27	743.4	28.2	— 2.1	63	se.			2		5			0	0		
PORTUGUESE.																			
Angra, Azores	30.24	768.0	30.39	772.0	62.1	16.7	87	wsw.	6.9	3.1			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.49	749.0	30.52	775.3	51.4	10.8	68	calm	0	0			1			0.039	1.0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.40	772.1	30.48	774.3	65.3	18.5	67	se.	3.1	1.4			9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.22	767.6	30.59	777.0	52.7	11.5	73	e.	5.0	2.5			7			0	0		The Staff.
Ponta Delgada, Azores	30.38	771.7	30.45	773.5	64.0	17.8	71	sw.	3.8	1.7			3			0	0		
Saint Paul de Loando	29.84	757.9	30.04	763.1	74.5	23.6	95	nne.	2.5	1.1			10			0.394	10.0		
Serra da Estrella	25.63	650.9	30.47	773.9	44.1	6.7	57	calm	0	0			5	nw.		0.551	14.0		
RUSSIAN.																			
Akmollnski	29.24	742.8	30.55	776.0	—31.5	—35.3	79	nne.	7	3		7 cs	0						Major K. Lasarew.
Archangel	29.89	759 2	29.91	759.7	15.4	— 9.2	81	s.	4	2			10			0	0		Capt. Sselliwerstow.
Ashurada	30.32	770.0	30.22	767.6	43.0	6.1	69	e.	9	4		0	0			0	0		
Astrakhan	30.39	771.8	30.30	769.7	20.5	— 6.4	69	e.	7	3		0	0			0	0		Capt. Wisganow.
Baku	30.25	768.3	30.20	767.1	37.4	3.0	85	s.	9	4		0	5 k			blank	blank		
Barnaul	29.53	750.1	30.09	764.2	2.7	—16.3	84	nw.	4	2			10			0.003	1.6		Meteorological Obs'y.
Bielosersk	29.64	752.9	30.15	765 8	11.5	—11.4	86	ese.	7	3		3 c	0			0	0		
Dorpat	29.54	750.4	29.80	757.0	19.6	— 7.2	87	s.	7	3		9 cs	0			0	0		Observatory.
Ekaterinburg	29.47	748.4	30.00	777.1	—20.4	—29.1	71	se.	7	3		0	0			0	0		Meteorological Obs'y.
Elissawetgrad	29.49	749.1	29.98	761.5	15.4	— 9.2	78	ese.	7	3		5 cs	0			inap.	inap.		
Irkutsk	28.34	719.8	30.17	766.4	— 2.4	—19.1	78	se.			4		5			0	0		
Kasan	30.12	765.0	30.42	772.6	9.1	—12.7	80	sse.	2	1			10			inap.	inap.	snowing	Observatory.
Kem	29.74	755.5	29.80	756.8	17.1	— 8.3	82	sw.	4	2			10			0	0	heavy cl'ds	
Kertch	29.85	758.1	29.87	758.6	23.0	— 5.0	84	calm	0	0		0	6 k			0	0		Lagorio & Sastyrez.
Kieff	29.32	744.6	30.02	762.4	5.2	—14.9	100	ene.	11	5		c	2 ks					light clouds	Observatory.
Koslov	29 72	755.0	30.31	769.8	9.9	—12.3	98	ese.	11	5			10 s			0	0	light snow	
Libau	29.69	754.2	29.72	754.8	29.5	— 1.4	85	sse.	16	7			10			0	0		E. Quaas.
Lugan	29.89	759.1	30.09	764.3	10.4	—12.6	81	ene.	18	8			10			0	0		Meteorological Obs'y.
Moscow	29.71	754 7	30.25	768.3	7.2	—13.8	80	calm	0	0		0	0			0	0		
Nikolaiev	29.85	758.1	29.92	760.0	16.9	— 8.4	82	ene.	9	4			10 n			0	0	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amour	30.06	763.5	30.15	765 7	—12.6	—24.8	75	w.	7	3			10			0.079	2.0		Iwanow.
Pekin, China	30.23	767 9	30.37	771.5	27.5	— 2.5	68	se.	11	5			9 n			0	0		Physicla Observatory.
Petrozavodsk	29.09	754 0	29.89	759.3	22.3	— 5.4	66	sw.	16	7		c	7 ks			0	0		Dr. Bergmann.
Pinsk	29.43	747.6	29.97	761.1	19.2	— 7.1	61	se.	11	5		4 cs	0			0	0	light clouds	
Poti	29.80	758.4	29.88	758.9	46.0	7.8	58	e.	11	5		0	7 n			0	0		
St. Petersburg	29.84	757.9	29.85	758.3	16.0	— 8.9	66	sse.	16	7		c	5 s			0	0		Central Physical Obs'y.
Samarkand	27.76	705.1	30.40	773.6	15.1	— 9.4	82	nw.	3.4	1.5			10 n						
Sevastopol	29.58	751.2	29.74	755.4	39.4	4.1	90	calm	0	0			9 n			0.031	0.8		
Semipalatinsk	29.47	748.4	30.20	767.0	— 4.4	—20.2	86	wnw.	20	9			10			0	0		Major Lasarew.
Staroi Bykhov	29.03	752 5	30.13	765.2	10.8	—11.8	97	se.	7	3		0	1 s			0.008	0.2	light clouds	
Tiflis	28.71	729.1	30.21	767.4	28.9	— 1.7	72	se.	9	4		5 cs	0			0	0		Physical Observatory.
Tomsk	29.94	760 4	30.28	769.0	—35.0	—37.2	80	n.	4	2			0						
Viatka	29.68	753.9	30.37	771.5	7.9	—13.4		s.	2	1			10			0	0	light clouds	
Warsaw	29.42	747.2	29.86	758.4	30.2	— 1.0	80	s.	7	3		7 cs	0			0	0		Astronomical Obs y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—(Continued.																			
Wilna	29.50	749.4	29.95	760.7	20.3	— 6.5	79	sse.	4	2			9			0	0	heavy clouds	**Berg, Assistant.**
Yeniseisk	29.61	752.1	29.94	760.5	—21.5	—29.7	76	wnw.	4	2			0			0	0		**M. O. Marks.**
Scottish.																			
Monach Lt			29.05	737.9	41	5.0	91	s.			4		10			0.2	5.	overcast	**J. Youngclauss.**
North Unst			29.02	737.1				nw.			4	2	7	W.					**Robt. Burnet.**
Spanish.																			
Barcelona, Met. Obs'y	30.26	768.6	30.37	771.3	55.4	13.0	61	sw.	2.9	1.3		0	0			0	0	clear	**Antonio Rave, Director.**
Bilbao, Met. Obs'y	30.36	771.1	30.42	772.6	56.1	13.4	46	nw.	3.6	1.6		0	0			0.146	3.7	clear	**Prof. Manuel de Naveran.**
Burgos, Met. Obs'y	27.45	697.3	30.56	776 2	41.0	5.0	72	s.	7.8	3.5			1			0	0	almost clear	**Domingo Martin.**
Madrid, Royal Obs'y	28.24	717.3	30.55	776.0	48.6	9.2	60	se.	2.5	1.1		0	0			0	0	clear	**The Staff.**
Murcia, Met. Obs'y	30.32	770.1	30.47	774 0	64.8	18.2	56	nw.	3.1	1.4		0	0			0	0	clear	**Olayo Diaz, Director.**
Oviedo	29.49	749.0	30.37	771.3	40.6	4.8	75	nw.	6.7	3.0		3 8	0			0	0		**Prof. L. G. Frades.**
Santiago, Met. Obs'y	29.48	748 9	30.41	772.3	49.6	9.8	76	s.	4.3	1.9			9			0.102	2.6	almost cov'd	R. Gil Villanueva, Dir.
Spanish.—(Sub-series.)																			
Manilla, Philippine Islands	29.87	758.8	29.93	760.3	78.8	26.0	84	e.	24.6	11.0		0	2 ks			0	0	clear	**P. F. Faura, S. J.**
San Fernando, Naval Obs'y	30.43	772.8	30.53	775.4	55.9	13.3	66	n.	4.0	1.8		0	0			0	0		**Capt. C. Pujazon, R. N.**
San Juan de Porto Rico, W. I.	30.04	763.0	30.13	765.3	73.0	22.8	90	e.	3.1	1.4		2 c	8 kn	e.	e.	0.039	1.0	overcast	**Manuel Maese.**
Swedish.																			
Haparanda	29.60	751.9	29.64	752.9	15.1	— 9.4	100	se.			2		10					snowing	
Umea	29.45	748.0	29.50	749.3	24.1	— 4.4	100	s.			2		10			0.886	22.5		
Hernosand	29.26	743.3	29.32	744.6	31.3	— 0.4	92	se.			6		10			0.059	1.5		
Stockholm	29.22	742.3	29 40	746.8	34.0	1.1	85	s.			4		10			0.063	1.6		
Wisby	29.43	747.5	29.49	749.0	35.6	2.0	85	s.			4		7			0.063	1.6		
Sub-series.																			
Upsala	29.25	743.0	29.34	745.2	31.8	— 0.1	89	s.	18.3	8.2			7		s.	0.031	0.8		S. G. Fineman.
Swiss.																			
Geneva	28.87	733.2	30.32	770.2	42.1	5.6	52	ssw.			3		4			0.091	2.3	cloudy	**The Observatory.**
Turkish.																			
Constantinople			29.86	758.5	37.8	3.2	89	n.	9	4.0			10		n.	0.343	8.7		The Observatory.
Valona			29.92	759.9	46.9	8.3		se.			1		10			1.26	32.	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.91	759.7	54.1	12.3	80	sw.			4		10 n		sw.	0.22	5.6		Prof. C. V. A. van **Dyck.**
Samokov, Bulgaria	26.42	671.1			31	— 0.6	75	s.			1	0	8 c		e.	0	0	cloudy	**Fred L. Kingsbury.**
United States.																			
Albany, New York	30.06	763.5	30.15	765.8	26	— 3.3	67	s.	10	4.5			10 s			0	0	cloudy	J. C. Barnes.
Alpena, Michigan	29.12	739.6	29.83	757.7	15	— 9.4	83	w.	6	2.7		0	1 s			0 31	7.9	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.16	639.1	30.28	769.1	20	— 6.7	64	ne.	6	2.7		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.06	687.3	30.10	764.5	12	—11:1	64	sw.	16	7.2		3 k	0	sw.		0.02	0.5	clear	B. O. Lenoir.
Atlanta, Georgia	29.05	737.9	30.28	769.1	41.0	5.0	100	se.	6	2.7			fg.			0.01	0.3	dense fog	H. C. Smith.
Atlantic City, New Jersey	30.25	768.6	30.27	768.8	30	— 1.1	88	nw.	2	0.9			10 s			0.03	0.8	cloudy	Jas. M. Watson.
Augusta, Georgia	30.11	764.8	30.31	769.9	49	9.4	93	calm	0	0			10 s			0	0	cloudy	John Healy.
Baltimore, Maryland	30.26	768.6	30.31	769.9	29	— 1.7	88	ne.	1	0.4			10s;fg			0.02	0.5	cloudy	Geo W Felgar.
Barnegat, New Jersey	30.25	768.3	30.27	768.8	36.0	2.2	69	sw.	7	3.1			10 s			0.03	0.8	cloudy	G. A. Hill.
Behring Id., Behring Sea	30.09	764.3	30.11	764.8	19.0	— 7.2		n.	4	1.8			10 n			0.01	0.3	cloudy	**Leonard Steineger.**
Bennett, Fort, Dakota	28.43	722.1	30.17	766.3	11	—11.7	80	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.08	687.8	30.06	763.5	13	—10.6	66	calm	0	0			10 s			0	0	cloudy	S. Wheaton.
Billings, Montana	26.81	681.0			16	— 8.9	70	w.	3	1.3		1 c	0	w.		0	0	clear	T. Gibson.
Bismarck, Dakota	28.08	713 2	30.07	763.8	7	—13.9	80	calm	0	0		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.28	769.1	30.31	769.9	35	1.7	79	sw.	6	2.7		0	9 ks		w.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.40	695.9	30.33	770.4	31	— 0.6	88	se.	2	0.9			10 s			0	0	cloudy	B. E. Light.
Boston, Massachusetts	30.13	765.3	30.30	769.6	23.3	— 4.8	75	s.	4	1.8			10s;fg			0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.85	758.2	29.90	759 4	67.7	19.8	93	s.	13	5.8			9 s			0	0	cloudy	M. McCarty.
Buffalo, New York	29.04	737.6	29.84	757.9	37.8	3.2	93	s.	8	3.6			10 n		sw.	0.24	6.1	light rain	W. Finn.
Buford, Fort, Dakota	27.92	709.2	30.12	765.0	0	—17.8	72	s.	1	0.4		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.76	755.9	30.07	763.8	19.0	— 7.2	70	s.	21	9.4			10 s		s.	0	0	cloudy	G. O. Schaeffer.
Cairo, Illinois	29.64	752.8	30.06	763.5	44.8	7.1	98	n.	9	4.0			10 n		n.	0.22	5.6	light rain	W. H. Ray.
Cape Henry, Virginia	30.32	770.1	30.34	770.6	32	0.0	100	nw.	3	1.3			fg.			0	0	dense fog	A. K. Alderson.
Cape May, New Jersey	30.24	768.1	30.27	768.8	34.0	1.1	83	s.	3	1.3			10 s			0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.69	754.1	30.39	771.9	47	8.3	93	se.	9	4.0			10 n		se.	0.11	2.8	light rain	J. J. McLean.
Cedar Keys, Florida	30.15	765.8	30.17	766.3	63	17.2	90	ne.	5	2.2		0	5 ks		n.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.17	740.9	30.04	763.0	29.5	— 1.4	68	w.	18	8.0			10 s		w.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.21	767.3	30.27	768.8	51	10.6	100	ne.	7	3.1			fg.			0	0	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.40	746.7	30.30	769.6	36.0	2.2	100	ne.	4	1.8			fg.			0	0	dense fog	D. O'Donoghue.
Chattanooga, Tennessee	29.38	746.2	30.24	768.1	51.0	10.6	86	s.	9	4.0			10s;fg		s.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.01	609.8	30.26	768.6	19.7	— 6.8	49	nw.	16	7.2		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.26	743.2	30.01	762.2	25.3	— 3.7	44	w.	7	3.1			10 s		w.	0.15	3.8	cloudy	J. Mitchell.
Chincoteague, Virginia	30.29	769.4	30.31	769.9	32	0.0	100	w.	4	1.8			10s;fg		s.	0.01	0.3	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.32	744 7	30.01	762.2	54	12.2	86	s.	10	4.5			10 n			inap.	inap.	light rain	R. B. Watkins.
Cleveland, Ohio	29.13	739.9	29.91	759.7	46.8	8.2	81	sw.	15	6.7			10 s		w.	0.06	1.5	cloudy	J. B. Newlin.
Coleman City, Texas	28.14	714.7	30.02	762.5	55	12.8	93	sw.	1	0.4			10 s		sw.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.09	738.9	29.99	761.7	45	7.2	76	s.	6	2.7			10 n			0.04	1.0	light rain	D. Cuthbertson.
Concho, Fort, Texas	28.01	711.4	30.03	762.7	47.0	8.3	86	calm	0	0			10 s			0	0	cloudy	J. McGlone.
Davenport, Iowa	29.39	746.5	30.10	764.5	26	— 3.3	76	nw.	4	1.8			10 s			inap.	inap.	cloudy	W. B. Lamar.
Davis, Fort, Texas	25.18	639.6	30.16	766.1	35	1.7	61	calm	0	0		0	4 s			0	0	fair	J. Williams.
Dayton, Washington T'y	28.41	721 6	30.21	767.3	39	3.9	82	s.	16	7.2		9 k	0	s.		0.14	3.6	cloudy	D. Moore.
Deadwood, Dakota	25.27	641.8	30.21	767.3	26	— 3.3	80	ne.	4	1.8		0	0			inap.	inap.	clear	F. Willson.
Delaware Breakwater, Del.	30.29	769.4	30.31	769.9	30	— 1.1	88	sw.	4	1.8			10 s		sw.	0	0	cloudy	T. S. Townsend.
Denison, Texas	29.15	740.4	29.99	761.7	45.0	7.2	100	n.	10	4.5			10 s			0.02	0.5	cloudy	J. W. Byram.
Denver, Colorado	24.76	628.9	30.28	769.1	23.0	— 5.0	76	s	4	1.8		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.15	740.4	30.12	765.0	18	— 7.8	67	n.	4	1.8		0	5 s		n.	0.01	0.3	fair	F. W. Conrad.
Detroit, Michigan	29.14	740.1	29.90	759.4	39.0	3.9	82	sw.	13	5.8		0	9 k		w.	0.21	5.3	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.45	697.2	30.20	767.1	31	— 0.6	71	nw.	2	0.9		0	5 s		sw.	0	0	fair	V. P. Temple.
Dubuque, Iowa	29.29	744.0	30.06	763.5	21.5	— 5.8	84	nw.	2	0.9			10 s		w.	0.02	0.5	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.16	740.7	29.97	761.2	10	—12.2	80	sw.	4	1.8		0	2 s		sw.	0.04	1.0	clear	N. B. Conger.
Eagle Pass, Texas	29.13	739 9	29.97	761.2	53.3	11.8	86	calm	0	0			10 s			inap.	inap.	cloudy	F. Belford.
Eagle Rock, Idaho	25.39	644.9	30.35	770.9	22	— 5.6	76	sw.	17	7.6		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.23	767.8	30.30	769.6	11.0	—11.7	80	nw.	2	0.9			10s;hz			0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.22	691.4	30.15	765.8	31	— 0.6	60	n.	12	5.4		9 k	0	n.		0	0	cloudy	W. J. Oundall.
El Paso, Texas	26.30	668.0	30.18	766.6	42.0	5.6	39	nw.	6	2.7			10 s		nw.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.11	739.4	29.88	758.9	46	7.8	83	sw.	22	9.8			10 n			0.17	4.3	light rain	Peter Wood.
Escanaba, Michigan	29.16	740.7	29.88	758.9	19.0	— 7.2	84	w.	4	1.8			10 s		w.	0.17	4.3	cloudy	George Heathcote.
Fredericksburg, Texas	28.18	715.8	30.00	762.0	61	16.1	100	sw.	9	4.0			10 s			0	0	cloudy	Frank Halwegler.
Galveston, Texas	29.96	761.0	30.00	762.0	63	17.2	93	se.	14	6.3		9 k	fg.	sw.		0	0	cloudy	E. O'C. MacInernay.
Grand Haven, Michigan	29.22	742.2	29.93	760.2	29.0	— 1.7	88	w.	18	8.0			10 ks		w.	0.25	6.3	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.33	643 4	30.23	767.8	31	— 0.6	65	ne.	4	1.8		0	1 s			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.31	769.9	30.33	770.4	40	4.4	100	ne.	12	5.4			fg.			0	0	dense fog	R. M. Crawford.
Helena, Montana	25.76	654.3	30.19	766.8	29	— 1.7	80	sw.	8	3.6		4 cs	0	sw.		0	0	fair	N. C. Smith.
Henrietta, Texas	28.96	735.6	30.03	762.7	41	5.0	82	n.	8	3.6			10 ks		n.	0	0	cloudy	J. P. Sherry.
Huron, Dakota	28.63	727.2	30.17	766.3	12	—11.1	31	nw.	4	1.8		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.16	740.7	30.00	762.0	42	5.6	83	nw.	4	1.8			10s;fg		w.	0.18	4.6	cloudy	**J. F. Jirdinston.**
Indianola, Texas	29.93	760.2	29.99	761.0	66.0	18.9	97	s.	8	3.6		0	8 k		s.	inap.	inap.	cloudy	I. A. Reed.
Jacksboro, Texas	28.84	732.5	30.08	764.0	48	8.9	56	s.	6	2.7			10 s		sw.	0	0	cloudy	D. J. Carr.
Jacksonville, Florida	30.17	766.3	30.22	767.6	58	14.4	93	calm	0	0			10 s		se.	0	0	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.44	697.0	30.13	765.3	9	—12.8	80	calm	0	0		2 c	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.38	746.2	30.08	764.0	25.0	— 3.9	100	w.	3	1.3			10 s		w.	inap.	inap.	cloudy	F. Z. Gosewisch.

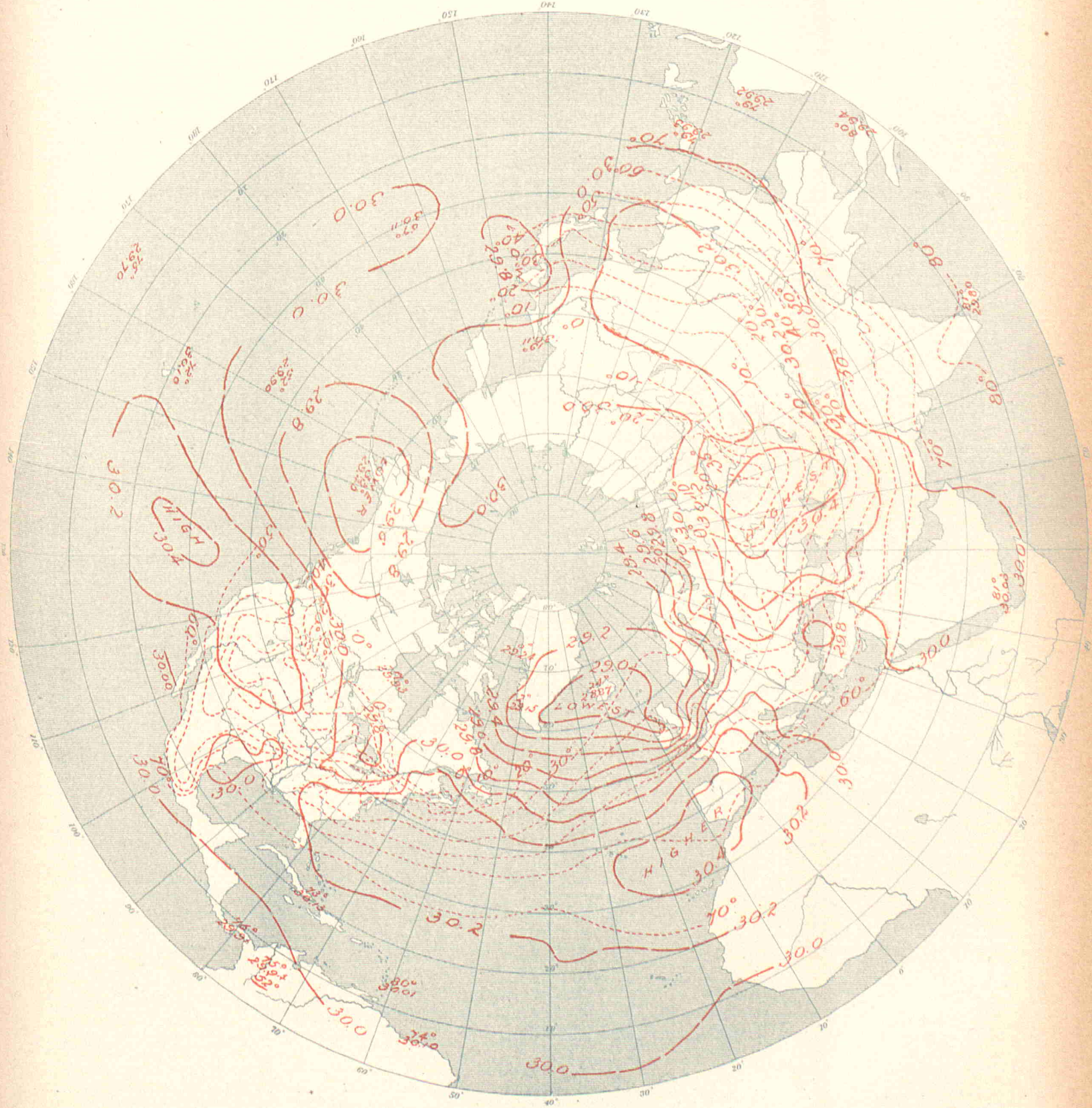
STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.08	764.0	30.10	764.5	73.5	23.1	94	se.	7	3.1		0	6k;s		se.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.32	770.1	30.34	770.6	37	2.8	94	ne.	9	4.0			fg.			0	0	dense fog	H. Mc P. Baldwin.
Knoxville, Tennessee	29.14	740.1	30.22	767.6	40.8	4.9	92	sw.	4	1.8		5c;cs	fg.	w.		0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.20	741.7	30.04	763.0	20	— 6.7	70	w.	5	2.2			10 s			0.17	4.3	cloudy	S. C. Emery
Leavenworth, Kansas	29.22	742.2	30.18	766.6	24	— 4.4	88	calm	0	0			10 s			0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.31	744.5	30.18	766.6	40.0	4.4	60	w.	7	3.1		0	2 s			0.01	0.3	clear	W. Bell.
Little Rock, Arkansas	29.07	753.6	30.00	762.0	60	15.6	93	calm	0	0			10 s		s.	0.12	3.0	cloudy	W. U. Simons.
Los Angeles, California	29.80	756.9	30.20	767.1	51	10.6	33	ne.	6	2.7		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.40	746.7	29.99	761.7	55	12.8	80	s.	16	7.2			10 s		w.	0.01	0.3	cloudy	L. M Dey.
Lynchburg, Virginia	29.58	751.3	30.30	769.6	31.3	— 0.4	87	s.	4	1.8			10 s			0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.14	740.1	29.84	757.9	16.0	— 8.9	83	w.	4	1.8			10 s		w.	0.51	13.0	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.30	769.6	30.31	769.9	40.0	4.4	100	n.	10	4.5			10 s		n.	0.01	0.3	cloudy	William Daly.
Madison, Wisconsin	28.94	735.1	30.03	762.7	18	— 7.8	83	w.	8	3.6			10 s			0.02	0.5	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.46	646.7	30.00	762.0	32	0.0	34	w.	24	10.7		0	0			0	0	clear	F. Burke.
McKavett, Fort, Texas																			J. E. Thatcher.
Marquette, Michigan	29.05	737.9	29.83	757.7	22	— 5.6	73	w.	2	0.9			10 s			0.26	6.6	cloudy	J. Gilligan.
Memphis, Tennessee	29.70	754.4	30.06	763.5	58	14.4	93	se.	3	1.3			10 n			0.18	4.6	light rain	D. T. Flannery.
Milwaukee, Wisconsin	29.18	741.2	29.98	761.5	20	— 6.7	70	w.	4	1.8			10 s		nw.	0.02	0.5	cloudy	W. Line
Missoula, Fort, Montana	26.64	676.6	30.10	764.5	30	— 1.1	60	sw.	5	2.2			8 s			0.02	0.5	cloudy	I. H. Young.
Mobile, Alabama	30.10	764.5	30.14	765.5	53.5	11.9	90	n.	4	1.8		2 ck	3 ks	sw.		0	0	fair	C. A. Read.
Montgomery, Alabama	29.94	760.5	30.18	766.6	47.5	8.6	91	ne.	3	1.3		0	9 ks		sw.	inap.	inap.	cloudy	J. B. McLaughlin
Moorhead, Minnesota	28 94	735.1	30.05	763.3	0	—17.8	68	nw.	5	2.2		0	0			0.05	1.3	clear	H. Bessant.
Morgantown, W. Virginia	29.03	737.3	30.09	764.3	43.5	6.4	72	sw.	8	3.6		0	5 s		sw.	0	0	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.62	599.9	30.22	767.6	11.0	—11.7	83	w	40	17.9			fg.		w.	0	0	dense fog	S. W. Beall.
Nashville, Tennessee	29.51	749.5	30.12	765.0	57.5	14.2	80	w.	8	3.6			10 ks		sw.	inap.	inap.	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.14	765.5	30.26	768.6	26	— 3.3	88	calm	0	0			10n;fg			inap.	inap	light snow	J. H. Sherman.
New London, Connecticut	30.24	768.1	30.29	769.4	32	0.0	78	s.	12	5.4			10 s		s.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.06	763 5	30.12	765.0	57.0	13.9	93	se.	11	4.9			fg.			0	0	dense fog	L. Dunne.
Newport, Rhode Island	30.25	768.3	30.30	769.6	32.2	0.1	77	s.	8	3.6			10 s		nw.	0	0	cloudy	W. McGillivray.
New York, New York	30.09	764.3	30.28	769.1	30	— 1.1	88	se.	2	0.9			10s;fg		s.	inap.	inap.	cloudy	J. B. Merrill.
Norfolk, Virginia	30.29	769.4	30.32	770.1	35	1.7	100	n.	1	0.4			fg.			0	0	dense fog	Wm. Davis.
North Platte, Nebraska	27.13	689.1	30.25	768.3	14.6	— 9.7	76	W	8	3.6		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.15	765.8	30.19	766.8	41.0	5.0	82	s.	1	0.4			10 s			0.27	6.9	cloudy	J. Dascomb.
Omaha, Nebraska	28.92	734.6	30.19	766.8	17.1	— 8.3	58	W.	4	1.8		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska	30.08	764.0	30.10	764.5	—35.0	—37.2	100	one.	9	4.0		0	0			0	0	clear	P. H. Ray.
Oswego, New York	29.52	749.8	29.87	758.7	33.0	0.6	83	se.	12	5.4			10 n		sw.	0.20	5.1	light rain	J. G. Linsley.
Palestine, Texas	29.43	747.5	30.01	762.2	61.5	16.4	93	s.	4	1.8		0	8 ks		sw.	0.13	3.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.12	765.0	30.15	765.8	57.0	13.9	96	ne.	1	0.4		0	5 s		se.	0	0	fair	M. McGauran.
Philadelphia, Pa	30.19	766.8	30.30	769.6	29.5	— 1.4	78	s.	1	0.4			10 s		s.	inap.	inap.	cloudy	T. T. Townsend.
Pike's Peak, Colorado	17.52	445.0	30.22	767.6	— 8	—22.2	49	n.			1	0	0			0.12	3.0	clear	H. Hall.
Ploche, Nevada	24.16	613 7	30.36	771.1	17.4	— 8.1	72	n.	1	0.4		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.15	740.4	30.00	762.0	48.0	8.9	71	s.	10	4.5			10 s		sw.	0.01	0.3	cloudy	W. A. Reid.
Poplar River, Montana	27.78	705.6	30.13	765.3				nw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.10	764.5	30.11	764.8	58.2	14.6	93	ne.	9	4.0			10s;fg		se.	0	0	cloudy	H. B. Boyer.
Port Huron, Michigan	29.16	740.7	29.89	759.2	35.0	1.7	100	w.	8	3.6			10 n			0.17	4.3	sleeting	W. O. Bailey.
Portland, Maine	30.21	767.3	30.26	768.6	15.0	— 9.4	67	W.	1	0.4			10s;fg			0	0	cloudy	W. W. Elchelburger.
Portland, Oregon	30.16	766.1	30.23	767.8	44.3	6.8	93	s.	6	2 7			10 s		s.	0.11	2.8	cloudy	M. L. Hearne.
Portsmouth, N. C.					41	5.0	100	ne.			2		10 n			0.03	0.8	light rain	F. S. Coburn.
Prescott, Arizona	24.86	631.4	30.24	768.1	21 3	— 5.9	87	sw.	1	0.4		0	0			0	0	clear	W. H. Clendenon.
Provincetown, Mass	30.29	769.4	30.32	770.1	28.5	— 1.9	67	s.	12	5.4			10 s		w.	0	0	cloudy	P. T. Jenkins
Punta Rassa, Florida	30.11	764.8	30.12	765.0	68.5	20.3	93	e.	9	4.0			10 s		s.	0.17	4.3	cloudy	W. J. Evans.
Red Bluff, California	30.04	763.0	30.41	772.4	38	3.3	100	n.	3	1.3		2 c	0	n.		0	0	clear	J. R. Williams.
Rochester, New York	29.13	739.9	29.84	757.9	30.5	2.5	100	s.	22	9.8			10s;fg			0.02	0.5	threatening	E. W. McGann
Roseburg, Oregon	29.78	750.4	30.35	770.9	44	6.7	83	sw.	2	0.9			10 s		w.	0.10	2.5	cloudy	J. J. Nanry.
Sacramento, California	30.31	769.9	30.39	771.9	40.2	4.6	89	n.	1	0.4		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.46	748.3	30.10	764.5	31.0	— 0.6	88	nw.	9	4.0			10 s		nw.	inap.	inap.	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.56	750.8	29.59	751.6	9	—12.8	100	calm	0	0			10 s			0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.08	738.6	30.02	762.5	12.0	—11.1	80	sw.	5	2.2		2 cs	0			0.16	4.1	clear	P. F. Lyons.
St. Vincent, Minnesota	29.02	737.1	30.00	762.0	0	—17.8	83	nw.	8	3.6			10 s			inap.	inap.	cloudy	C. B Dilley.
Salt Lake City, Utah	25 84	659.3	30.41	772.4	28	— 2.2	07	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.23	742.4	29.96	761.0	65.0	18.3	93	se.	3	1.3			10 s			0	0	cloudy	T. J. Kenan.
San Diego, California	30.09	764.3	30.16	766.1	47.0	8.3	56	n.	4	1.8		9 c	0			0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.20	741.7	29.92	760.0	44	6.7	83	w.	14	6.3			10 s			0.03	0.8	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.25	768.3	30.28	769.1	31.0	— 0.6	88	sw.	4	1.8		10 k	0			inap.	inap.	cloudy	B. A. Blundon.
San Francisco, California	30.32	770.1	30.39	771.9	45	7.2	100	se.	2	0.9			fg.			0	0	dense fog	C. Gorom.
Santa Fé, New Mexico	23.19	589.0	30.24	768.1	22.5	— 5.3	58	n.	2	0.9		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.16	766.1	30.20	768.6	53	11.7	86	se.	7	3.1			fg.			0.21	5.3	dense fog	H. W. Ford.
Shaw, Fort, Montana	26.23	666.2	30.09	764.3	31	— 0.6	71	sw.	20	8.9		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.76	755 9	30.00	762.0	63	17.2	93	se.	4	1.8			10 n		se.	inap.	inap.	light rain	E. N. Meekins.
Sill, Fort, Indian Territory	28.74	730.0	30.07	763.8	34	1.1	75	n.	18	8 0		0	0			0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.27	616.4	30.13	765.3	30.0	— 1.1	70	n	1	0.4		0	0			0	0	clear	N. D. Lane.
Sitka, Alaska	29.45	748.0	29.52	749.8	39.6	2.0	80	ne.	2	0.9		2 ck	0	ne.		0.21	5.3	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.50	749.3	30.00	762.0	43.0	6.1	96	w.	7	3.1			10 n			1.25	31.7	light rain	J. B. Campbell.
Smithville, North Carolina	30.28	769.1	30.32	770.1	42	5.6	100	ne.	7	3.1			fg.			0	0	dense fog	O. Parker.
Spokane Falls, Wash. Ter.	28.01	711.4	30.15	765.8	34.7	1.5	87	sw.	8	3.6		0	0			0.05	1.3	clear	H. Clifford.
Springfield, Illinois	29.36	745.7	30.09	764.3	32	0.0	78	nw.	6	2.7			10 s		nw.	0.05	1.3	cloudy	T. B. Jennings.
Springfield, Missouri	28.57	725.7	30.09	764.3	30	— 1.1	88	ne.	3	1.3			10 ks		n.	0.03	0.8	cloudy	J. H. Bryce.
Starkville, Miss.	29.65	753.1	30.15	765.8	53	11.7	93	se.	5	2.2		4 k	fg.	w.		0	0	fair	C. Dill.
Stevenson, Fort, Dakota																			W. Burrows.
Stockton, Fort, Texas	26.94	684.3	30.08	764.0	45	7.2	41	sw.	12	5.4		2 c	0	w.		0	0	clear	A. J. Warren.
Thatcher's Island, Mass	30.09	764.3	30.15	765.8	33.0	0 6	78	s.	20	8.9			10 s		s.	0	0	cloudy	G. Liebmann
Thomas, Camp, Arizona	27.34	694.4	30.17	766.3	32	0.0	88	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.18	741.2	29.92	760.0	44	6.7	83	W.	17	7.6			10 s		w.	0.23	5.8	threatening	A. Buell.
Tucson, Arizona	27.65	703.3	30.19	766.8	32	0.0	81	s.	5	2.2		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.80	758.4	30.26	768.6	42	5.6	95	sw.	18	8.0		0 c	0	nw.		0.02	0.5	cloudy	J. Daly.
Verde, Fort, Arizona					29.9	— 1.2	59	nw.			1	0	0			0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.84	757.9	30.10	764.5	58.3	14.6	91	se.	3	1.3		8 cs	1 s	sw.		0	0	cloudy	James Keneally.
Visalia, California	29.97	761.2	30.30	771.1	38.0	3.3	85	se.	3	1.3		2 cs	0	nw.		0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.45	621.0	30.24	768.1	9.8	—12.3	71	sw.	1	0.4		1 k	0			0	0	clear	T. M. Ambler.
Washington, D. C.	30.18	766.6	30.30	769.6	27.5	— 2.5	100	s.	3	1.3			fg.			inap.	inap.	dense fog	B. M. Purssell.
West Las Animas, Colorado	26.10	662.9	30.24	768.1	35	1.7	66	sw.	4	1.8			10 s		nw.	0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa	29.53	750.0	30.10	766.1	25.2	— 3.8	84	n.	3	1.3			10 s			0	0	threatening	B. F. Hough.
Wilmington, N. Carolina	30.27	768.8	30.33	770.4	42	5.6	92	ne.	4	1.8			10 s			0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.84	656.3	30.38	771.6	30	— 1.1	80	sw.	5	2.2		0	5 s		sw.	0	0	fair	J. Grover.
Yankton, Dakota	28.75	730.2	30.17	766.3	0	—14.4	52	calm	0	0		0	0			0.12	3.0	clear	J. H. Atfield.
Yuma, Arizona	30.04	763.0	30.19	766.8	40.7	8.2	48	n.	5	2.2		1 c	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.02	559.3			52.0	11.1	82	n.	1	0.4		3 k	5 ks	w.	ne.	0	0	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.08	764.0	30.09	764.3	72	22.2	91	calm	0	0		2 c	8 s		e.	0.01	0.3	cloudy	Robert Johnston.
Paramaribo, S. A.	30.10	764.5	30.10	764.5	74	23.3	80	se.			2		8 ks	e.		0.080	2.0		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.33	749.2	29.94	760.5	75	23.9	89	calm			0	1 c	2 ks	calm	calm	0	0	clear	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.																			Earl Flint.
St. Paul, Kodiak Id., Alaska	29.37	749.0	29.43	747.5	33	0.6	88	calm			0		8 ks			0.14	3.6	cloudy	W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallee.
York Factory B. A.	29.80	758.4	29.93	760.2	—16.5	—29.9	69	nw.	9	4.0			10 s		nw.	0.09	2.3	snowing	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
British Naval.																		
H. M. S. Amethyst, Port Stanley, Falkland Island†	30.19	766.8	53	11.7	85	w.			4		1							blue sky.
H. M. S. Audacious, Hong-Kong, China	29.96	761.0	61	16.1	82	calm			0									d. clouds.
H. M. S. Boadicea, St. Helena Island, Africa	30.02	762.5				ese.			2–3		3							d. clouds.
H. M. S. Champion, Singapore, Malay peninsula	29.94	760.5	80	26.7	91	var.			1		6							raining.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.28	769.1	39	3.9	81	ene.			1		10							d. clouds.
H. M. S. Comus, Payta Peru	29.97	761.2	69	20.6	95	calm			0									
H. M. S. Constance, S 23° 56′, W. 39° 24′	29.90	759.4	78	25.6	90	n.			4–5		1					3	nne.	blue sky.
H. M. S. Curacoa, Yokohama, Japan	29.70	754.4	43.5	6.4	45	n.			3–4		0							squally.
H. M. S. Crocodile, N. 15° 49′, E. 58° 40′	30.00	762.0	75	23.9	68	ene.			1		2					sm'h		blue sky.
H. M. Dock-Yard, Bermuda, W. I.	30.26	768.6	63	17.2	78	wnw.			2–3		3	nnw.						d. clouds.
H. M. M. Eclipse, N. 18° 54′ E. 72° 49′	29.83	757.7	76	24.4		nne.			1–2		2							blue sky.
H. M. S. Euryalus, Trincomalee, Ceylon	29.80	756.9	81	27.2	91	nne.			1		4	nne.						d. clouds.
H. M. S. Fawn, S. 10° 49′ W. 11° 01′	30.00	762.0	76.5	24.7	74	n.			1		3					1	nne.	d. clouds.
H. M. S. Flying Fish, N. 28° 25′, E. 123° 54′	30.21	767.3	50	10.0	82	e.			2		10					4	e.	overcast.
H. M. S. Fox Hound, Lubuan Island, Borneo	29.82	757.4	78.5	25.8		n.			3		9	n.				3	ne.	overcast.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.99	761.7	60	15.6	90	ene.			1		10							misty
H. M. S. Heroine, S. 30° 30′, W. 46° 50′	30.14	765.5	69	20.6	95	ssw.			6–7		5	ssw.				7	ssw.	squally.
H. M. S. Himalaya, N. 12° 46′, E. 45° 01′	30.03	762.7	81	27.2	82	se.			1–2		2							blue sky.
H. M. S. Iron Duke, N. 31° 15′ E. 32° 18′	30.00	762.0	59	15.0	81	w.			5–6		0					2	w.	squally.
H. M. S. Kingfisher, Callao Bay, Peru	29.98	761.5	65	18.3		calm			0		10							foggy.
H. M. S. Lark, S. 34° 50′, E. 174° 49′	30.31	769.9	70.3	21.3	87	nne.			1		5					sm'h		d. clouds.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.14	765.5	39.3	4.1	71	n.			1		5							d. clouds.
H. M. S. Monarch Port Said, Egypt	30.00	762.0	59	15.0	87	sw.			4		1							blue sky.
H. M. S. Mutine, N. 20° 00′, W. 151° 30′	30.20	767.1	70.5	21.4		ne.			5		4	ene.				4	ene.	d. clouds.
H. M. S Rocket, Valdivia, Chili	30.07	763.8	62	16.7	94	calm			0		4							d. clouds.
H. M. S. Serapis, N. 13° 22′, E. 48° 08′	30.02	762.5	78.5	25.8	82	e.			1		3					1	se.	misty.
H. M. S Superb, N. 35° 52′ E. 18° 33′*	30.06	763.5	66	15.6	76	w.			5–6		7	wsw.				6	w.	squally.
H. M. S. Swiftsure, Bay of Payta, Peru	30.00	762.0	68	20.0	94	s.			1		6					1	s.	d. clouds.
H. M. S. Sylvia, Tuesday Bay, Patagonia	29.80	756.9	55.5	13.1	91	nw.			3–5		10							raining.
H. M. S. Tourmaline, Bombay, India	29.93	760.2				n.			3		3	w.						d. clouds.
H. M. S. Tyne, N. 10° 40′, W. 16° 56′	30.00	762.0	73	22.8	75	nne.			2–3		1					2	nne.	misty.
H. M. S. Woodlark, Bushire, Persia	29.95	760.7	62.5	16.9	77	calm			0		9							misty.
Portuguese Naval.																		
Tamega, Macao, China	30.07	763.7	62.6	17.0	90	ene.			3		8			0	0			overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla*	30.19	766.8	58	14.4	94	ne.	3	1.3			10		ne.	0	0			cloudy.
Navy Yard, Portsmouth, N. H*	30.28	769.1	17	— 8.3	?	calm	0	0			10			0	0			cloudy.
Naval Hospital, Yokohama, Japan*	29.66	753.4	37	2.8	45	n.			4		1		w	0.91	23.1			clear.
Adams, Sitka, Alaska†	29.49	749.0	33	0.6	90	wnw.			1		2		ssw.					fair.
Alaska, Mare Island, Cal	30.35	770.9	45	7.2	92	calm			0		2			0	0			fair.
Alliance, Aspinwall, U. S. C	29.94	760.5	80	26.7	86	nne.			3		8			light	light	mod.		cloudy.
Brooklyn, Keel Point, Patagonia*	29.91	759 7	59	15.0	81	wnw	7	3.1			0			0	0	sm'h		clear.
Colorado, New York, N. Y.	30.35	770.9	29	— 1.7	100	e.	1	0.4			10			0	0			hazy.
Enterprise, N. 27° 46′, W. 34° 15′ *	30.34	770.6	70	21.1	79	ese.			3		2		calm			sm'h		fair.
Essex, Callao, Peru	29.94	760.5	66	18.9	94	sse.			0–1									foggy.
Franklin, Norfolk, Va	30.33	770 4	36	2.2	90	w.	1.5	0.7			10			0	0			foggy.
Galena, Montevideo, Uruguay*	30.38	771.6	63	17.2	67	se.			2		5		se.			sm'h		fair.
Hartford, Callao, Peru*	29.89	759.2	65	18.3	100	se.			1		10					sm'h	s.	foggy.
Independence, Mare Island, Cal	30.38	771.6	54	12.2	79	calm			0		0			0	0			clear.
Iroquois, Callao, Peru	29.96	761.0	66	18.9	94	calm			0		10					sm'h		foggy.
Jamestown, N. 32° 55′ W. 57° 00′	30.20	767.1	66	18.9	78	nw.			5		5	nw.				sm'h		fair.
Juniata, N. 38° 10′. E. 11° 02′*	30.21	767.3	62	16.7	88	wnw.			7		8	nw.	sli't	sli't	mod.	nw.		clear.
Kearsarge, N. 11° 58′, W. 68° 55′	30.03	762.7	78	25.6	95	ene.			4		8	e.			sm'h			cloudy.
Lackawanna, Honolulu, Sandwich Island*	30.10	764.5	72	22.2	71	calm			0		8	s.						cloudy.
Lancaster, Villefranche, France	30.11	764.8	56	13.3	57	ne.			2		0							clear.
Michigan, Erie, Pa	30.42	772.7	32	0.0	89	wsw.			3		10							cloudy
Minnesota, New York, N. Y	30.28	769.1	29	— 1.7	100	ese.	1	0.4			10							foggy.
Monocacy, Nagasaki, Japan	30.18	766.6	45	7.2	84	n.			1		0							clear.
New Hampshire, Newport, R. I.			34	1.1	100	s.			2		10		s.			sm'h		cloudy.
Nipsic, N. 33° 12′, W. 15° 24′	30.56	776.2	66	18.9	83	e.			3		10		e.			long	n.	drizzling.
Onward, Callao, Peru*†	30.08	764.0	64	17.8	94	calm			0		10							foggy.
Palos, Tientsin, China*	30.29	769.4	27	— 2.8	100	se.			2		10		calm					cloudy.
Pensacola, Payta, Peru*	29.92	760.0	68	20.0	90	ese.	3	1.3			2			0	0	sm'h		fair.
Portsmouth, N. 32° 26′, W. 60° 03′	30.25	768.3	63	17.2	88	nnw.			4		2		nnw.			sm'h		fair.
Powhatan, Boston, Mass.	30.31	769.9	25	— 3.9	88	s.			1		10							foggy.
Quinnebaug, Genoa, Italy	30.11	764.8	51	10.6	72	nne.			3		0							clear.
Ranger, N. 29° 40′, W. 115° 36′*	30.05	763.3	59	15.0	59	w.			2		0							clear.
Richmond, Hong-Kong, China*	29.95	760.7	61	16.1	82	e.			2		8			0	0	long	w.	clear.
Saratoga, New York, N. Y.	30.32	770.1	29	— 1.7	100	sse			1		10		e.	0	0			fair.
St. Louis, League Island, Pa	30.38	771.6	25	— 3.9	88	ese.	6	2.7			10		sw.	0	0			threatening
Tennessee, St. Thomas Island, W. I*	30.09	764.3	76	24.4	95	ene.	4	1.8			8			0.02	0.5			cloudy
Vandalia, Turks Island, W. I*	30.15	765.8	75	23.9	80	e.			2		5		ne.	0.01	0.3			showery
Wabash, Boston, Mass	30.33	770.4	25	— 3.9	88	s.	1	0.4			10		ene.					fair.
Wachusetts, N. 27° 52′ W. 135° 01′	30.37	771.4	61	16.1	77	e.			5		5		sw.	0	0			cloudy.
Wyandotte, Washington, D. C.	30.19	766.8	36	2.2	90	sw.			2		10					mod.	w.	fair.
Yantic, N. 14° 54′, W. 81° 45′	30.08	764.0	77	25.0	95	ene.			4–5		8		w.	0	0			cloudy.
Merchant Marine.																long		squally.
S. S. Grecian, N. 32° 00′, W. 180° 09′*	30.49	774.4	64	17.8	89	e.			3		10		e.	½h'r	½h'r	mod.	nw.	squally.
S. S. Scandinavian, N. 42° 33′, W. 64° 26′	30.36	771.1	20	— 6.7		w.			1–2		5		w.			sm'h		raining.
S. S. Indiana, N. 39° 59′, W. 70° 49′			43	6.1	92	s.			3		2		w.			sm'h		fine.
S. S. Lord Clive, N. 39° 45′, W. 70° 34′	30.37	771.4				se.			3		9		ssw.	0	0	sm'h		cloudy.
S. S. Lord Gough, N. 49° 38′, W. 36° 11′	29.69	754.1	38	3.3		wsw.			6		5		wsw.	24 h'r	24 h'r	long	w.	squally.
S. S. Ohio, N. 50° 48′, W. 22° 28′†	29.70	754.4	43	6.1	92	w.			6		6		w.			h'vy	wnw.	snowing.
S. S. Pennsylvania, Philadelphia, Pa†	30.21	767.3	31	— 0.6	89	wsw.			3		10		sw.	9 h'r	9 h'r			foggy
S. S. Stella, Sandy Hook, N. J	30.15	765.8	32	0.0		s.			2		7		s.					drizzling.
S. S. Anchoria, N. 45° 32′ W. 46° 47′†	30.02	762 5				w.			4		8		wnw.	0	0	mod.	w.	cloudy.
S. S. Bolivia, N. 49° 59, W. 37° 13	29.70	754.4	38	3.3	90	wsw.			9		10		w.	snow	snow	high		snowing.
S. S. Dorian, N. 41° 10′, W. 28° 40′	30.13	765.3	58	14.4		var.			1		10		wnw.	6 h'r	6 h'r	h'vy	wnw.	heavy rain.
S. S. Utopia, N. 43° 24′ W. 55° 13′†	30.40	772.1	28	— 2.2		ne.			2		4		ne.	0	0	sm'h	n.	fair.
S. S. Ailsa, Kingston, Jamaica, W. I †	30.12	765.0	84	28.9	91	ne.			2		2		ne.	2 h'r	2 h'r	sm'h	e.	fair.
S. S. Antillas, N. 28° 30′, W. 73° 27′†	30.35	770.9				ene.			2		2		ene	0	0	sm'h		
S. S. Ambrose, Manaos, Brazil†	30.00	762.0	78	25.6		calm			0		4?			3 h'r	3 h'r			cloudy.?
S. S. Landaff City, N. 50° 55′, W. 26° 15′	29.70	754.4	43	6.1		wsw.			7		6		w.	snow	snow	h'vy	wsw.	squally.
S. S. Auckland, S. 33° 38′, W. 22° 40′	30.01	762.2	74	23.3	90	nnw.			3		6							blue sky.
S. S. British Merchant, N. 23° 51′, W. 125° 08′	30.22	767.6	62	16.7	82	ne.			4–5		7							d. clouds.
S. S. Caldew, S. 32° 14′, E. 29° 23′	30.21	767.3	71.5	21.9	78	ssw.			5		3							d. clouds.
S. S. City of Agra, S. 22° 50′, W. 31° 12′	30.03	762 7	80.8	27.1	90	ne.			3		8							d. clouds.
St. Kilda, N. 56° 00′, W. 10° 30′	29.71	754.6	48.5	9.2	71	wnw.			7		7							raining.
S. S. Scotia, N. 12° 16′, E. 49° 49′	30.02	762.5	81	27.2	55	ne.			5		1							blue sky.
S. S. Lake Huron, N. 51° 07′, W. 13° 01′			43	6.1		w.			9		8		w.	rain	rain	h'vy	w.	
S. S. Marathon, N. 48° 55′, W. 29° 20′	29.92	760.0	46	7.8		wsw.			5		4		wsw.	3 h'r	3 h'r	high	wsw.	fine.
S. S. Parthia, N. 41° 21′, W. 54° 25′	30.38	771.6	39	3.9	73	ene.			4		7		nne.	2 h'r	2 h'r	light	ne.	d. clouds.
S. S. Pavonia, Liverpool Bar, Eng	29.09	738.9	51	10.6	86	w.			0		10			6 h'r	6 h'r	mod.		
S. S. Colina, N. 38° 13′, W. 66° 45′†	30.24	768.1				nne.			3		7		ne.			mod.	ne.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																	
S. S. Rhinwidda, N. 51° 22′, W. 8° 14′*†	29.50	749.3	45	7.2		W.			8			8			hail	hail	r'gh		stormy.
S. S. Canada, N. 43° 50′, W. 56° 40′	30.37	771.4	26.6	— 3.0		nw.			1	ck		0	nw.		o	o	sm'h	nw.	covered.
S. S. Abyssinia, Liverpool, Eng	29.17	740.9	49	9.4	85	sw.			8			10		sw.	1 h'r	1 h'r	mod.	w.	squally.
S. S. Wisconsin, N. 43° 20′, W. 58° 30′	30.21	767.3	28	—2.2		n.			3			0			o	o	sm'h		clear.
S. S. Bohemia, Hamburg, Germany *†	29.74	755.4				wsw.			8			7		w.	2 h'r	2 h'r			stormy.
S. S. Rugia, N. 41° 46′, W. 61° 25′	30.40	772.1	33	0.6		n.			1			2		e.	snow	snow	sm'h	e.	fair.
S. S. Silesia, Hamburg, Germany			35.0	1.7		sw.			6			8		sw.	snow	snow			cloudy.
S. S. Vandalia, Hamburg, Germany	29.71	754.6	38.8	3.8		sw.			6			8		sw.					cloudy.
S. S. Wieland, N. 50° 20′, W. 12° 53′	29.83	757.7				w.			6			8		w.	hail	hail	high	w.	stormy.
S. S. Mentmore, N. 38° 13′, W. 67° 37′ *	30.31	769.9				ese.			5			5?		e.	o	o	sm'h	e.	clear.?
S. S. Hevelius, S. 15° —′, W. 35° 30′†	30.12	765.0	82	27.8		sse.			4			2		sse.	o	o	sm'h		clear.
S. S. Virginian, N. 43° 15′, W. 56° 30′*	30.27	768.8	30	—1.1		w.			2			4		wsw.	o	o	sm'h	w.	fair.
S. S. Colorado, N. 24° 56′, W. 84° 03′ †	30.12	765.0	71	21.7		sse.			2			2		ese.	shr's	shr's	small	ese.	clear.
S. S. Rio Grande, N. 26° 00′, W. 76° 45′ †	30.23	767.8	77	25.0		ese.			2			3		ese.	o	o	mod.	ne.	fair.
S. S. San Marcos, N. 27° 00′, W. 87° 45′	30.07	763.8	78	25.6		sse.			4			7		s.	o	o	sm'h		fine.
S. S. Archimede, Palermo, Sicily †	29.98	761.5	62	16.7	77	wnw.			5			4?		wnw.	o	o			cloudy ?
S. S. Alleghany, Chesapeake Bay†	30.34	770.6	34	1.1		s.			4			10			light	light			foggy.
S. S. Dominion, N. 44° 05′, W. 63° 30′ *†	30.36	771.1	29	—1.7		wnw.			3			10		n.	o	o	light	wnw.	overcast.
S. S. Chalmette, N. 29° 35′, W. 89° 50′†	30.07	763.8	68	20.0		ese.			1						o	o			foggy.
S. S. Lone Star, N. 36° 16′ W. 74° 40′ †	30.26	768.6	54	12.2		e.			2			2		se.	o	o	small	ne.	fine.
S. S. Denmark, London, Eng †	29.45	748.0	49	9.4		wnw.			8			8		wnw.	sq'll	sq'll			cloudy.
S. S. Egypt, N. 44° 59′, W 50° 24′*†	30.20	767.1				w.			3			5		wsw.	o	o	mod	w.	fair.
S. S. Erin, N. 50° 58′, W. 14° 21′	29.62	752.3	45	7.2		w.			8			10		w.	6 h'r	6 h'r	h'vy	w.	squally.
S. S. Greece, N. 40° 27′, W. 68° 46′	30.27	768.8	34	1.1		se.			3			6		w.	o	o	sm'h	se.	fair.
S. S. Helvetia, Liverpool, Eng	29.25	742.9	40	4.4		s.			6			10		s.	hail	hail			snow & rain
S. S. Holland, N. 42° 02′, W. 00° 29′	30.26	768.6	30	— 1.1		nw.			3			5		w.	hail	hail	sm'h	wnw.	fine.
S. S. City of Alexandria, N. 32° 26′, W. 76° 15′			69	20.6	85	sse.			3			8		s.	snow	snow	r'gh	s.	clearing.
S. S. City of Merida, N. 23° 09′, W 82° 22′ †	30.21	767 3	71.6	22.0		se.			2			10		se.	o	o			foggy.
S. S. America, N. 37° 38′, W. 74° 49′ *	30.32	770.1	43.0	6.1	83	s.			2			1		s.	o	o			fair.
S. S. Braunschweig, S. 21° 54′ W. 40° 33′	29.83	757.7	79.0	26.1	82	nne.			5			7		ne.	o	o	long	nne.	cloudy.
S. S. Gen. Werder, N 49° 45′, W. 19° 33′	29.83	757.7				w.			6			4		wnw.	6 h'r	6 h'r	h'vy	w.	fair.
S. S. Hohenstaufen, N. 76° 12′, W. 25° 34′	30.06	763.5	73.4	23.0		ne.			5			0			o	o	r'gh	ne.	clear.
S. S. Neckar, N. 48° 03′, W. 28° 40′	29.94	760.5	45.0	7.2	76	wsw.			0			5		wsw.	5 h'r	5 h'r	long	w.	cloudy.
S. S. Salier, N. 43° 30′, W. 55° 53′	30.31	769.9	28	—2.2		wnw.			3			5		wnw.	snow	snow	mod.	wnw.	fair.
S. S. Arabic, N. 36° 15′, W. 164° 56′*†	29.90	759.4	52	11.1	86	sw.			4			8		w.	shr's	shr's	mod.	wsw.	squally.
S. S. Belgic, N. 27° 09′, E 123° 29′*†	30.07	763.8	62	16.7	61	n.			2			10		ne.	o	o	mod.	nw.	cloudy.
S. S. Coptic, N. 39° 48′. W. 129° 29′	30.37	771.4	52.0	11.1	96	s.			3			0			o	o	sm'h	w.	blue sky.
S. S. Gaelic, N. 22° 12′, E. 114° 13′	29.87	758.7	62	16.7	94	ene.			4			3		ne.	o	o	sm'h		fair.
S. S. Oceanic, San Francisco, Calf	30.42	772.7	52	11.1	86	sw.			1										foggy.
S. S. City of Augusta, New York, N. Y†	30.25	768.3				sse.			4			6?			o	o			cloudy.?
S. S. Mississippi, N. 45° 45′, W. 122° 45′*†	30.31	769.9	40	4.4		e.			2			8		e.					cloudy.
S. S. Willamette, N. 38° 46′, W. 123° 50′†	30.46	773.7	48	8.9	85	calm			0			4		ese.	o	o	long	nw.	foggy.
S. S. Oregon, Portland, Oregon†	30.06	763.5	46	7.8	92	calm			0										hazy.
S. S. Ancon, N. 33° 44′ W. 118° 28′ †	30.15	765.8	55	12.8	56	ene.			3			0					sm'h		clear.
S. S. City of Chester, Eureka, Cal*†	30.41	772.4	39	3.9	100	calm			0			10							foggy.
S. S. G. W. Elder, Seattle, Wash. Ter†	30.16	766.1	46	7.8	84	se.			2			4?			o	o			cloudy?
S. S. Queen of the Pacific, Portland, Oregon†	30.15	765.8				sw.						5?							overcast.?
S. S. State of California, San Francisco, Cal †	30.42	772.7	43	6.1	100	s.			2			10		s.	o	o			foggy.
S. S. Victoria, San Francisco, Cal *†	30.33	770.4	45	7.2		ene.			3			2		ene.					foggy.
S. S. Australia, N. 5° 17′, W. 165° 33′ *†	29.70	754.4	75	23.9	100	ene.			5			7		ese.	3 h'r	3 h'r	long	e.	drizzling.
S. S. City of Pekin, N. 29° 18′ E. 161° 49′ †	30.11	764.8	67	19.4	79	e.			4			10		se.			mod	nnw.	overcast.
S. S. City of Rio de Janeiro N. 15° 20′, W. 93° 17′*†	30.20	767.1	79	26.1	82	n.			1			4		e.	o	o	light	w.	fine.
S. S. City of Sydney, Sydney, N. S. W †	29.83	757.7	73	22.8	76	nw.			2			5		sw.	o	o	sm'h		fair.
S. S. City of Tokei, N. 33° 14′, E. 146° 29′†	29.78	756.4	54	12.2	93	nw.			4			8		nne.	rain	rain	h'vy	nw.	cloudy.
S. S. Colon, N. 15° 52′, W. 75° 36′ †	30.06	763.5	79	26.1		ene.			5			0		ne.	o	o	mod.	ene.	fair.
S. S. Grenada, Panama, Panama †	29.91	759.7	76	24.4	86	nw.			1			2		n.	2 h'r	2 h'r			clear.
S. S. San José, N. 24° 55′, W. 112° 50′*†	30.00	762 0				nw.			2	5 c		0	nnw.		o	o	h'vy	wnw.	overcast.
S. S. Zealandia, S. 34° 16′, E. 170° 09′*	29.97	761.2	76	24.4	91	n.			2			2?	nne.						cloudy?
S. S. Muriel, N. 39° 34′, W. 73° 26′*	30.19	766.8				w.			3			5			o	o	mod	ese.	fair.
S. S. Caracas, N. 25° 57′, W. 69° 25′ †	30.32	770.1	74.5	23.6	81	ene.			5			3		ene.	o	o	mod.	ene.	fine.
S. S. Claudius, Colon, U. S. C †	30.04	763.0	78.0	25.6	86	n.			1			5		n.	2 h'r	2 h'r	long	n.	fair.
S. S. Valencia, N. 13° 52′, W. 68° 10′ †	30.09	764.3	80	26.7	78	ne.			5			3		e.	o	o	mod.	ne.	fine.
S. S. Belgenland, N. 41° 04′, W. 66° 05 ,†	30.34	770.6	29	—1.7		calm			0			0			o	o	sm'h		fine.
S. S. Pennland, New York, N. Y	30.29	769.4	29	—1.7	91	w.			3			10		w.	o	o			hazy.
S. S. Rhynland, N. 49° 10′, W. 32° 00′			44	6.7	92	wsw.			6			7		wsw.			high	w.	snow & sleet.
S. S. Switzerland, N. 50° 05′, W 30° 54′ †	29.71	754.6				wsw.			6			10		wsw.	hail	hail	h'vy	wsw.	hailing.
S. S. Waesland, Antwerp, Belgium	29.83	757.7	38	3.3		s.			5			10		s.					rainy.
S. S. Leerdam, N. 46° 23′, W. 42° 14′*	30.00	762.0	39	3.9	73	wsw.			6			10		wsw.	o	o	r'gh	w.	cloudy.
S. S. Maas, Rotterdam, Holland			39.4	4.1		sw.			6			4		ne.	2 h'r	2 h'r			
S. S. Schiedam, N 42° 36′ W. 58° 36′	30.36	771.1			79	calm			0			4		ne.	o	o	sm'h		fair.
S. S. W. A. Scholten, N. 49° 27′, W. 18° 41′	30.01	762.2	48.2	9.0	70	wnw.			6			5		w.	rain	rain	cross	nw.	fair.
S. S. Zaandam, N. 50° 05′, W. 24° 40′			60	15.6		w.			7			6 n		w.	12 h'r	12 h'r	7	w.	stormy.
S. S. State of Florida, N. 41° 18′, W. 62° 43′	30.25	768.3	30	—1.1		e.			3			8		nw.	sleet	sleet	mod.		cloudy.
S. S. State of Georgia, N. 49° 58′, W. 36° 23′†	29.72	754.9	35	1.7		wsw.			9			7		wsw.	hail	hail	r'gh	wsw.	squally.
S. S. Baltic, N. 40° 59′, W. 68° 03′*	30.35	770.9	28	—2.2		wsw.			1			5		wsw.	o	o	sm'h		d. clouds.
S. S. Britannic, N. 51° 24′, W. 11° 10′ †	29.62	752.3	40	4.4	91	w.			8			5		wnw.	sleet	sleet	high	var.	threatening.
S. S. Germanic, N. 50° 00′, W. 22° 13′ †	29.94	760.5	51	10.6		sw.			5			4		sw.	sh'rs	shr's	rg'h	wsw.	d. clouds.
S. S. Republic, N. 40° 33′, W. 67° 24′†	30.31	769.9	33	0.6	80	ese.			2			5		nw.	o	o		sm'h	d. clouds.
S. S. Marengo, N. 46° 00′, W. 43° 45′*	29.90	759.4				w.			6			5		w.	o	o	mod.	w.	overcast.
S. S. Otranto, N 48° 06′ W. 49° 02′†	30.26	768.6	20	—6.7		wsw.			6			5?		wsw.			cross	w.	clear ?
S. S. Romano, New York, N. Y*†	30.18	766.6	30	—1.1		calm			0			10			o	o			overcast.
S. S. Salerno, N. 44° 39′, W. 42° 43′	30.21	767.3	40	4.4		n.			4			10		nw.	1 h'r	1 h'r	mod.	nw.	snowing.
S. S. Catherine Whiting, Providence, R. I†	30.29	769.4				calm			0						o	o			
S. S. Norman, N. 39° 46′, W. 73° 13′						wsw.			1					ssw.			sm'h		foggy.
S. S. Saxon, Boston, Mass†	30.15	765.8	25	— 3.9		sse.			3			10			o	o			threatening.
MISCELLANEOUS																			
Schr. Abbie H. Gheen, Spring Wood Mills, S. C †	30.35	770.9	50	10.0		e.			3						o	o			foggy
Bg. Alcira, N. 18° 34′, W. 67° 24′	30.10	764.5				ene.			4			3		ene.	o	o	r'gh	e.	clear.
Bk. Alpha, Demerara, British Guiana *†	29.98	761.5	80	26.7		ene.			3			1			o	o			fair.
Schr. Anna A. Holton, Tampico, Mexico †	30.01	762.2	72	22.2		sw.			2			2		wsw.	o	o	sm'h		clear.
Bg. Annie R. Storer S. 24° 36′, W. 38° 30′*	30.12	765.0				n.			5			8		nnw.	o	o	r'gh	nne.	cloudy.
Bk. Anna Thormann, S. 8° 49′, W. 15° 56′	30.01	762.2	78.8	26.0	69	ese.			2	8 ck		0	nw.		o	o	light	se.	fair.
S. S. Antonio Lopez, Malaga, Spain	30.45	773.4	64	17.8	68	s.			2			0			o	o			clear.
Bg. Arthur, S. 20° 19′, W. 49° 25′ *†	30.31	769.9				ssw.			7			5		ssw.	sh'rs	sh'rs	high	ssw.	
Schr. Annie R. Lewis, N. 19° 13′, W 59° 12′ †	30.20	767.1	79	26.1		e.			5			2		e.	sh'rs	sh'rs	r'gh	ene.	clear.
Bk. B. F. Watson, Hong Kong, China†	29.97	761.2	64	17.8		ne.			3			3		ne.	o	o			d. clouds.
Bg. Belle of the Bay, Galveston, Texas†	30.05	763.3				sse.			5			5		sw.					light rain.
Bkt. Bonny Doon, N. 25° 48′, W. 38° 40′*†	30.12	765.0				e.			2			5?		se.	o	o	long	n.	clear ?
Bk. Bremen, N. 23° 14′, W. 41° 48′ *	30.15	765.8				se.			4			2		se.	o	o	light	var.	clear.
Bk. Champion, Philadelphia, Pa			46	7.8		sw.			3			10		wnw.	2 h'r	2 h'r			snowing.
Bk. Commerce, Cadiz, Spain†	30.33	770.4	57	13.9		nnw			1			0			o	o			fine.
S. Cornelius, N. 54° 46′, E. 4° 37′*†	29.58	751.3	43.2	0.2		wsw.			0			10		wsw.	o	o	long	nw.	cloudy.
Bkt. C. S. Bushnell, N. 37° 20′, W. 58° 20′						n.			5			8		n.	rain	rain	sm'h	n.	squally.
S. S. D. J. Foley, N. 14° 05′, W. 70° 30′ *†	30.00	762.0	79	26.1	82	ne.			6			4		n.	o	o	mod.	ne.	fine.
S. S. E. B Sutton, N. 15° 40′, W. 34° 00′ †	30.16	766.1	72.5	22.5	83	e.			5			4		e.	o	o	mod.	e.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.	Force.	Amount and kind.		Direction.						
									Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																	
Bk. E. D. Bigelow, N. 42° 49′, W. 30° 00′*†	30.10	764.5				w.			3		10		wsw.	0	0	con.	nnw.	overcast.
Schr. Edith R. Seward, N. 26° 50′, W. 69° 35′ †	30.27	768.8	74	23.3		e.			2		4		ese.	1 h'r	1 h'r	mod.	se.	clear.
Bk. Edmund Phinney, S. 32° 57′, W. 47° 10′†	30.19	766.8				s.			6		3		s.	sli't	sli't	r'gh	sw.	fair.
S. E. J. Spicer, N. 48° 50′, W. 17° 40′	29.96	761.0	51	10.6	93	nw.			7		5		nw.	rain	rain	high	nw.	fair.
Bk. E. L. Pettingill, S. 56° 32′, W. 71° 10′*†	29.70	754.4	48	8.9		wnw.			4		10		wnw	rain	rain	long	wnw.	rain & fog.
Bk. Essex, S. 17° 55′ E. 40° 52′ *†	29.83	757.7	75	23.9		nnw.			9					rain	rain	h'vy	nw.	cloudy.
Schr. F. E. McDonald, Jacksonville, Fla†	30.18	766.6	58	14.4		calm			0		10			light	light			fine.
S. Festina Lente, N. 54° 30′, E. 4° 27′†	29.44	747.8	41	5.0		wsw.			7		10		sw.	0	0	r'gh	sw.	misty.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†	30.32	770.1	36	2.2	80	s.			1		10		calm					foggy.
S. S. Fescolia, N. 51° 55′, E. 1° 05′						sw.			9		10		wsw.					drizzling.
Bk. Freya, Matanzas, Cuba, W. I.						calm			0		1		ne.	0	0			clear.
S. Geo. Stetson, S. 30° —′ W. 48° —′ *†	30.16	766.1	70	21.1	66	s.			6		3		s.	0	0	chop	s.	clear.
S. Grecian, N. 21° 47′ W. 38° 19′†	30.22	767 6	74	23.3	81	ese.			5		5		e.	0	0	mod.	e.	fair.
Bk. Grey Eagle, S. 8° 50′, W. 34° 40′*†	29.90	759.4				e.			3		1		ese.	0	0	mod	e.	clear.
Bk. Gronsvaer, Auckland, N. Z.	30.29	769.4	74.3	23.5		ne.			4		3		ne.	0	0			clear.
Bk. Hattie G. McFarland, N. 11° 07′, W. 61° 03′*†	30.15	765.8	78	25.6		ne.			4		4		ne.	2 h'r	2 h'r	sharp	ne.	
Schr. Hattie Weston, Cedros, Trinidad, W. I*†	30.06	763.5	78	25.6		ene.			2		1		ene.	0	0	mod.	ne.	clear.
Bk. Heinrich & Tonio, N. 29° 50′, W. 40° 50′			72	22.2		sse.			4					0	0	light	var.	clear.
Bk. Horace Scudder, N. 32° 00′, W. 69° 14′*†	30.30	769.6	64	17.8		nne.			3		0					light	nw.	fine.
Schr. Isabel Alberto, New York, N. Y†	30.32	770.1				sw.			1		10		w.	snow	snow			cloudy.
Schr. James Slater, N. 13° 48′, W. 45° 55′ *†	30.06	763.5	79	26.1		ese.			4		5		se.	1 h'r	1 h'r	mod.	ne.	squally.
Bk. Johanne, N. 18° 32′, W. 46° 22′ *†	30.07	763.8	77	25.0		ese.			3		8		var.	1 h'r	1 h'r	sm'h	ese.	hazy.
Schr. John L. Thomas, N 15° 10′, W. 78° 40′*†	30.09	764.3				e.			3		2		e.	0	0	mod.	e.	clear.
Bkt. Josephine, S. 35° 11′, W. 13° 17′†	30.19	766.8	76	24.4	68	ne.			4		0			0	0	long	sw.	clear.
S. S. J. W. Wilson, Galveston, Texas*†	29.98	761.5	64	17.8		ese.			2		10			driz.	driz.			foggy.
Light House Tender, Laurel, N. 25° 05′, W. 81° 58′ †.	30.10	764.5	71	21.7		e.			1–2		3		e.	2 h'r	2 h'r	sm'h		clear.
Bg. Lilian, N. 27° 55′, W. 71° 40′ †	30.37	771.4	73	22.8		e.			4		3		ese.	0	0	long	ese.	clear.
Bk. Louise Adelaide, Off Matanzas, Cuba. W. I*†						se.			2		6		e.	0	0	sm'h	ne.	fine.
Bg. L. & W. Armstrong, N. 40° 08′ W. 73° 06′*†	30.32	770.1				s.			4		5		ssw.	0	0	mod.	ene.	clearing.
S. S. Malabar, N. 35° 16′, W. 55° 00′ *†	30.30	769 6				wnw.			4		1		w.	0	0	mod.	wnw	clear.
Bk. Mary A. Troop, N. 47° 30′, W. 15° 00′*†	29.92	760.0				nnw.			7		10		nw.	4 h'r	4 h'r	cross	var.	drizzling.
Schr. Minnie A. Bonsall, Mayport, Fla †	30.27	768.8	64	17.8		nne.			1									
S. M. P. Grace. S. 11° 52′, W. 28° 54′ *	29.95	760.7	76	24.4		e. to se.			4		8		ese.	slight	slight	long	nne.	
Bg. Myrtle, Barbadoes, W. I *†	29.90	759.4				calm			0		0			0	0			clear.
Bkt. Norena, Matanzas, Cuba, W. I*†	30.21	767.3				wsw.			1		5		sw.	0	0	mod	ne.	fine.
Schr. Ocean Traveler, N. 19° 39′, W. 60° 12′ †.	30.09	764.3				ene.			4		5					h'vy	e.	squally.
Bk. Ottawa, Alicante Harbor, Spain*	30.36	771.1	63	17.2		sse.			1		1			0	0			clear.
S Paramita, San Francisco, Cal†	30.30	769 6	46	7.8		calm			0					0	0			clear.
S. S. Peconic, N. 53° 27′, W. 4° 20′			49	9.4		w.			7				wsw.	sq'll	sq'll	mod.	var.	squally.
S. S. Raleigh, Matanzas, Cuba, W. I*†	30.05	763.3	74	23.3		calm			0		0			0	0			
Bk. Reindeer, Martinique, W. I*	30.14	765.5				ene.								0	0			squally.
S. Rudolph, N. 42° 45′, W. 27° 00′*	29.91	759.7	57.0	13.9		sw.			2		10		var.	2 h'r	2 h'r	high	var.	rainy.
S. Sacramento. S. 33° 25′, W. 26° 30′ *†	30.07	763.8	79	26.1	82	n.			6		5		nnw.	0	0	mod.	sw.	fine.
Bk. Saga, N. 37° 58′, W. 61° 30′			56	13.3		nne.			6		3		var.	16 h'r	16 h'r	6	ne.	fair.
Schr. S. B. Hubbard, Mayport, Fla *†	30.25	768.3	65	18.3		se.			1		10			0	0			threatening.
Bk. Southern Belle, N. 28° 50′, W. 69° 40′ *†	30.25	768.3	68	20.0		ne.			3		2			0	0	sm'h		clear.
S. Sovereign of the Seas, S. 22° 23′, W. 124° 16′ *†	30.20	767.1	78	25.6	91	se.			1		5?		se.	0	0	short	se.	overcast.?
Bk. Sunbeam, Lisbon, Portugal *†	30.55	776.0	59	15.0	82	e.			2		8		e.	0	0			cloudy.
S. Titan, N. 2° 26′, W. 29° 28′*†	30.00	762.0	82	27.8	87	sse.			1		7		se.	0	0	long	var.	cloudy.
Bk. Wandering Jew, Montevideo, Uruguay †	30.40	772.1	65	18.3		sse.			4		7		sse.	0	0			fair.
Bk. Winifred, N. 22° 42′, W. 40° 30′ *†	30.15	765.8				var.							se.	0	0		e.	
Schr. Wm. Wiler, N. 18° 40′, W. 60° 45′†	30.06	763.5				ene.			4		5		ene.	4 h'r	4 h'r	r'gh	e.	squally.
Bk. Xenia, N. 2° 50′, W. 28° 00′*†	30.00	762.0	81	27.2		se.			2		4		s.	4 h'r	4 h'r	sm'h	var	fair.

International Chart I. January 27, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 28, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours	.....	.....	30.51	774.9	59.0	15.0	85	n.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Malaterre.
Algiers	.....	.....	30.46	773.6	60.8	16.0	69	wsw.	.....	.....	3	.....	0	.....	.....	0	0	clear.....	Thève.
La Calle	.....	.....	30.33	770.4	62.6	17.0	54	w.	.....	.....	4	.....	3	.....	.....	0	0	pretty fair..	Fonfréde.
Tunis	.....	.....	30.31	769.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.49	774.4	60.1	15.6	75	ne.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Pérès.
Tebessa	.....	.....	30.39	772.0	49.3	9.6	69	wsw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Dognon.
Geriville	.....	.....	.....	.....	54.3	12.4	42	ssw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Louchamp.
Laghouat	.....	.....	30.53	775.5	59.0	15.0	45	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Abraham.
Biskra	.....	.....	30.45	773.5	66.6	19.2	39	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Malau.
Australian.																			
Melbourne, Victoria	29.88	758.9	29.97	761.2	67.9	19.9	69	ese.	4	1.8	.....	.....	1	.....	.....	0	0	fine.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.48	748 7	30.05	763.3	35.6	2.0	70	ne.	.....	.....	2	.....	8	.....	.....	0	0	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	29.04	737.5	29.82	757.5	37.0	2.8	75	sw.	4.9	2.2	.....	.....	5	.....	.....	0.130	3.3	.....	Dr. Wierzbiski.
Eperies	28.98	736.1	29.90	759.4	32.4	0.2	96	s.	.....	.....	3	.....	10 s	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.76	730.4	30.07	763.7	32.4	0.2	87	sw.	.....	.....	1	.....	5	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.55	725.1	30.04	763.1	31.6	— 0.2	85	nw.	.....	.....	1	.....	1	.....	.....	0.142	3.6	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.73	729.8	30.12	765.1	37.8	3.2	71	w.	.....	.....	4	0	7 k;ks	.....	.....	0.087	2.2	fair.....	The Staff.
Lemberg	28.82	732.1	29.84	758.0	33.8	1.0	66	w.	.....	.....	3	.....	3	.....	.....	0.110	2.8	.....	Dr. T. Stanecki.
Neu Schmecks	26.38	670.0	29.87	758.7	29.8	— 1.2	48	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	29.95	760.6	30.06	763.6	48.7	9.3	98	w.	.....	.....	1	.....	2	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.47	748.6	29.93	760.3	32.9	0.5	83	w.	.....	.....	2	.....	10	.....	.....	0.146	3.7	.....	Joseph Midlinszky, S. J.
Szegedin	29.75	755.7	30.05	763.2	32.4	0.2	92	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.97	761.2	30.07	763.7	47.5	8.6	52	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Royal Academy.
Vienna	29.26	743.3	30.00	761.9	44.2	6.8	48	nw.	.....	.....	3	.....	8	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.41	747.0	29.51	749.5	39.3	4.1	67	sw.	26	11.6	.....	.....	3	.....	.....	0.200	5.1	squally.....	W. Boswell
Armagh, Observatory	29.54	750.3	29.78	756.4	41.3	5.2	89	sw.	21	9.4	.....	.....	.....	.....	.....	.....	.....	.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.89	759.2	45.0	7.2	74	sw.	33	14.8	.....	.....	10	.....	.....	.....	.....	overcast.....	John Harmup.
Bolton, Sharples	29.36	745.7	29.91	759.7	41.1	5.1	90	sw.	18	8.0	.....	.....	10	.....	.....	.....	.....	overcast.....	Thomas Mackereth.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.86	21.8	.....	McLandsborough&Preston.
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	80.0	26.7	66	ne.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds.....	Corpl. J. Surgenor, A. H. C.
Cardington	.....	.....	.....	.....	46.0	7.8	73	sw.	.....	.....	2.0	.....	2	.....	.....	.....	.....	blue sky.....	John McLaren.
Chatham, School M. E.	30.01	762.2	30.14	765.5	47.5	8.6	67	sw.	.....	.....	2	.....	3	.....	.....	blank	blank	misty.....	Corpl. G. A. Pickles.
Falmouth, Observatory	29.94	760.5	30.18	766.0	49.7	9.8	69	sw.	.....	.....	4	.....	7	.....	.....	.....	.....	d. clouds.....	The Staff.
Fort Napier, Natal	27.79	705.9	30.01	762.2	71.0	21.7	75	e.	.....	.....	3	.....	8	.....	.....	.....	.....	overcast.....	Corpl. F. Milner, A. H. C.
Galway	29.71	754 6	29.75	755.6	47	8.3	85	sw.	.....	.....	7	.....	10	.....	.....	0.11	2.8	overcast.....	Wm. Ryan.
Gibraltar, Mediterranean	30.48	774.2	30.53	775.4	60.0	15.6	96	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	d. clouds.....	Sgt. J. Norris, A. H. C.
Glasgow, Observatory	29.40	746.7	29.60	751.8	40.3	4.6	87	sw.	.....	.....	5	.....	10 n	.....	.....	.....	.....	overcast.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.96	761.0	30.14	765.5	40.2	7.9	63	sw.	.....	.....	4	.....	3	.....	.....	.....	.....	d. clouds.....	The Staff.
Guernsey	29.99	761.7	30.29	769.4	48.0	8.9	77	wsw.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds.....	A. Collenette, F. M. S.
Kew, Observatory	30.10	764.5	30.14	765.5	45.4	7.4	64	sw.	23	10.3	.....	.....	9	.....	.....	.....	.....	d. clouds.....	The Staff.
Leicester, Museum	29.66	753.4	29.92	760.0	45.0	7.6	73	sw.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds.....	J. C. Smith.
Malta, Mediterranean	30.26	768.6	30.33	770.4	55.8	13.2	92	n.	.....	.....	2	.....	0	.....	.....	0.03	0.8	blue sky.....	Corpl. Keene, A. H. C
Nassau, Bahamas	30.13	765.3	30.18	766.0	73.2	22.9	84	se.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe.
Oscott, St. Mary's College	29.47	748.5	30.00	762.0	44.2	6.8	71	ssw.	.....	.....	6	.....	6	.....	.....	.....	.....	d. clouds.....	Rev. Jas. W. Browne
Oxford, Radcliffe Obs'y	29.87	758.7	30.10	764.5	46.4	8.0	73	sw.	.....	.....	5	.....	5	.....	.....	.....	.....	squally.....	The Staff.
Plymouth	30.07	763.8	30.14	765.5	49.5	9.7	74	wsw.	.....	.....	4	.....	2	.....	.....	.....	.....	d. clouds.....	John Merrifield.
Sandwick Manse, Orkneys	29.20	741.7	29.30	744.2	38.8	3.8	67	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	showery.....	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.86	758.4	29.92	760.0	30.4	2.4	76	nne.	.....	.....	2	.....	10	.....	.....	blank	blank	misty.....	W. H. Lyne.
Sheffield	29.62	752.3	29.90	759.4	44.9	7.2	71	ssw.	.....	.....	5	.....	4	.....	.....	0.27	6.9	d. clouds.....	W. F. Cooper.
Silloth Rectory	29.64	752.8	29.67	753 6	42.5	5.8	86	w.	.....	.....	6	.....	10	.....	.....	0.40	10.4	overcast.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.89	759.2	41.2	5.1	91	sw.	19	8.5	.....	.....	10	.....	.....	.....	.....	raining.....	Rev. S. J. Perry.
Strathfield Turgiss	29.92	760.0	30.14	765.5	46.7	8.2	75	w.	.....	.....	3	.....	10	.....	.....	.....	.....	squally.....	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	30.06	763.5	30.10	764.5	52	11.1	72	sw.	.....	.....	8	.....	10	.....	.....	.....	.....	raining.....	W. Newcombe.
Valencia, Observatory	29.78	756.4	29.81	757.2	47.8	8.8	81	s.	37	16.5	.....	.....	10	.....	.....	blank	blank	misty.....	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.93	760.2	29.97	761.2	26	— 3.3	93	sw.	3	1.3	.....	.....	10 n	.....	calm	0.175	4.4	cloudy.....	H. J. Cundall, C. E
Chatham, N. B*	29.96	761.0	30.03	762.7	11	—11.7	91	nw.	2	0.9	.....	.....	10 s	.....	nw.	0.34	8.6	cloudy.....	G. A. Blair.
Cornwall	29.81	757.2	30.01	762.2	18.0	— 7.8	94	e.	.....	.....	1	.....	10 s	.....	.....	0.10	2.5	covered.....	Jas. Smith, M. A.
Dalhousie	30.00	762.0	30.00	763.5	— 3.5	—19.7	.....	calm	.....	.....	0	0	5 s	.....	.....	0.20	5.1	clear.....	H. A. Johnson.
Father Point, Quebec*	29.98	761.5	30.01	762.2	8	—13.3	91	sw.	4	1.8	.....	.....	10 n	.....	calm	0.03	0.8	light snow...	J. McWilliams.
Fort Garry, Manitoba*	29.15	740.4	30.07	763.8	3	—16.1	100	n.	3	1.3	.....	.....	10 n	.....	.....	0	0	cloudy.....	James Stewart.
Fredericton	30.00	762.0	30.08	764 c	10.4	—12.0	94	nw.	2.c	0.9	.....	.....	10 s	.....	.....	0.100	2.5	overcast.....	Prof. Harrison, L. L. D.
Granton	28.90	734 0	30.00	763.5	26.2	— 3.2	98	nw.	2	0.9	.....	.....	10 n	.....	.....	0	0	overcast.....	Jas. Grant.
Halifax, N. S*	29.90	759.4	30.03	762 7	31	— 0.6	100	calm	0	0	.....	.....	hz.	.....	.....	0.210	5.3	hazy.....	A. Allison.
Hamilton	29.03	752.6	30.03	762.7	30.2	— 1.0	90	sw.	.....	.....	1	10 cs	0	sw.	.....	0	0	overcast.....	Geo. Dickson, B. A.
Kingston, Ontario*	29.09	754.1	30.05	763.3	24	— 4.4	84	n.	2	0.9	.....	.....	10 k	.....	sw.	0.11	2.8	cloudy.....	A. P. Knight, M. A
Montreal, Quebec*	29.83	757 7	30.05	763.3	14	—10.6	90	calm	0	0	.....	.....	10 n	.....	.....	0.08	2.0	cloudy.....	C. H. McLeod, C. E.
Ottawa	29.78	756.4	30.04	763.0	15.1	— 9.4	98	calm	.....	.....	0	.....	10 s	.....	.....	0	0	overcast.....	A. McGill, M. A.
Parry Sound, Ontario*	29.31	744.5	30.05	763.3	23	— 5.0	88	w.	.....	.....	.....	5 k	5 ks	w.	w.	0	0	cloudy.....	Rev. R. Mosley.
Peterboro	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. Dixon, B. A.
Port Dover, Ontario	29.30	744.2	30.02	762.5	31	— 0.6	100	n.	2	0.9	.....	.....	fg	.....	.....	0.01	0.3	foggy.....	H. Morgan.
Port Stanley, Ontario	29.36	745.7	30.04	763.0	30	— 1.1	92	n.	1	0.4	.....	.....	10 n	.....	nw.	0.05	1.3	cloudy.....	M. Payne.
Quebec, Quebec*	29.71	754.6	30.00	763.5	11	—11.7	100	w.	.....	.....	1	.....	10 k	.....	nw.	0.50	12.7	cloudy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.52	749.8	30.01	762.2	15	— 9.4	83	calm	0	0	.....	.....	10 n	.....	.....	0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.28	743.7	30.03	762.7	28	— 2.2	88	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy.....	
St. Andrews, N. B	29.95	760.7	30.00	762.0	22	— 5.6	92	n.	3	1.3	.....	.....	10 n	.....	.....	0.29	7.4	cloudy.....	
St. John, N. B	29.85	758.2	30.02	762.5	19.0	— 7.2	100	n.	5	2.2	.....	.....	10 ks	.....	.....	0.06	1.5	overcast.....	G. Murdock, C. E.
St. Pierre, N. F.	.....	.....	30.04	763.0	21.2	— 6.0	.....	ne.	.....	.....	2	.....	.....	.....	.....	0.08	2.0	.....	The Commandant.
Stratford	28.70	729 0	30.05	763.3	25.0	— 3.9	94	calm	0	0	.....	.....	10 s	.....	.....	0	0	overcast.....	C. J. Macgregor, M. A.
Sydney, C. B*	30.00	762.0	30.00	763.5	20	— 6.7	100	calm	0	0	.....	.....	10 n	.....	.....	0.05	1.3	cloudy.....	T. C. Hill, C. E.
Toronto, Ontario*	29.65	753.1	30.06	763.5	29	— 1.7	88	nw.	6	2.7	.....	.....	10 n	.....	.....	0	0	cloudy.....	Magnetic Observatory.
Windsor	29.90	759.4	30.00	762.0	27	— 2.8	94	s.	1	0.4	.....	0	8 ks	.....	.....	0	0	fair.....	Prof. W. H. Butler.
Woodstock	29.96	761.0	30.07	763.8	28.6	— 1.9	91	.....	.....	.....	.....	.....	10 s	.....	.....	0	0	overcast.....	Prof. Wolverton, M. A.
Yarmouth, N. S*	29.90	759.4	29.97	761.2	33	0.6	85	calm	0	0	.....	.....	10 k	.....	n.	0.23	5.8	cloudy.....	Lt. F. E. Wilmot, R. A.
Cape Colony.																			
Cape St. Francis Lt. House	30.21	767.3	30.24	768.1	71.0	21.7	83	e.	6.4	2.9	.....	.....	0	.....	.....	0	0	clear.....	John Duthie.
Springbok Fontein	27.88	708.1	.....	.....	90	32.2	38	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.73	628.1	.....	.....	15.8	— 9	.....	ene.	.....	.....	2	.....	10	.....	.....	.....	.....	foggy	
Tchang-kia-tchouang	30.27	768.8	30.38	771.6	22.3	— 5.4	98	ne.	.....	.....	1	.....	10	.....	.....	0	0	.....	**Mission, S. J.**
Zi-Ka-Wei, near Shanghai	29.98	761.5	30.00	762.1	44.8	7.1	91	e.	20.6	9.2	.....	.....	10	.....	.....	0.012	0.3	covered	**M. Marc Dechevrens, S.J**
Danish.																			
Copenhagen	29.38	746.3	29.43	747.5	33.4	0.8	92	nnw.	29	13	.....	.....	10	.....	.....	.....	.....	rain & snow	**Oversergent Fischer.**
Fanoe	29.73	755.2	29.75	755.7	36.9	2.7	85	w.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	29.43	747.6	29.48	748.7	1.6	—16.9	100	nnw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	**S. Kleinschmidt.**
Ivigtut, Greenland	29.41	747.0	29.43	747.5	— 2.0	—18.9	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.41	746.9	29.45	748.1	—17.7	—27.6	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.91	734.3	28.95	735.4	27.3	— 2.6	89	ne.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	**A. O. Thorlacius.**
Thorshavn	28.95	735.4	28.99	736.3	34.9	1.6	76	w.	9	4	.....	.....	7	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Vestervig	29.51	749.6	29.60	751.9	36.1	2.3	93	wnw.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	**Loerer Oesterbol.**
Upernavik, Greenland	29.30	744.3	29.35	745.5	— 1.7	—18 7	.....	e.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	29.81	757.1	30.47	774.0	51.1	10.6	97	w.	.....	.....	1	.....	8	.....	.....	0	0	light rain	**M. Labroue, Director.**
Alençon, Normal School	29.82	757.4	30.37	771.4	41.0	5	94	w.	.....	.....	2	.....	8	e.	e.	0.47	12.	.....	**M. Nicot, Director.**
Arras, Engineer School	29.97	761.3	30.24	768.1	43.2	6.2	.....	.....	.....	.....	3	.....	k	.....	nw.	0	0	.....	**M. Fénéon, Command't.**
Avignon, Normal School	30.37	771.3	30.45	773.3	51.1	10.6	56	nw.	.....	.....	3	.....	0	.....	.....	0.012	0.3	clear	**M. Giraud, Director.**
Bar-sur-Seine	29.83	757.7	30.41	772.4	43.7	6.5	64	wnw.	.....	.....	2	0	5 kn	.....	.....	0.472	12.0	cloudy	**M. Saillard, Director.**
Beauvais, Normal School	30.07	763.8	30.35	770.8	43.3	6.3	77	sse.	.....	.....	1	.....	0	.....	.....	0.205	5.2	clear	**M. Frère Eugène Marie.**
Besançon, Normal School	29.45	748 0	30.38	771.6	44.6	7	71	sse.	.....	.....	1	.....	n	.....	e.	0.413	10.5	.....	**M. Gobin, Director.**
Bordeaux, Observatory	30.23	767.9	30.50	774.7	48.7	9.3	97	se.	.....	.....	1	.....	10	.....	.....	0.201	5.1	raining	**M. Rayet, Director.**
Bourges, Normal School	29.84	757.9	30.40	772.2	45.5	7.5	85	sw.	.....	.....	1	.....	1	.....	sw.	0.28	7.	clear	**M. Malet, Director.**
Brest, Naval Observatory	30.06	763.5	30.30	769.7	51.1	10.6	80	s.	.....	.....	2	.....	9	.....	s.	0.110	2.8	.....	**M. de Kermarec, Dir.**
Caen, Normal School	30.20	767.1	30.28	769.1	47.5	8.6	78	nne.	.....	.....	1	.....	0	.....	.....	0.20	5.	clear	**M. Berson, Director.**
Châlons-sur-Marne, N.Sch'	29.98	761.5	30.32	770.0	45.5	7.5	78	w.	.....	.....	1	.....	2	.....	sw.	0.209	5.3	slightly cl'dy	**M. Jadot, Director.**
Charleville, Normal School	29.76	755.9	30.28	769.1	43.5	6.4	74	sw.	.....	.....	1	.....	0	.....	.....	0.43	11.	clear	**M. Grimard, Director.**
Clermont-Ferrand Obs'y	29.09	738.8	30.49	774.4	45.5	7.5	58	w.	.....	.....	1	.....	5	.....	.....	0.382	9.7	½ covered	**M. Alluard, Director.**
Cluny, Normal School	29.55	750.5	30.43	772.9	46.8	8.2	55	nw.	.....	.....	1	.....	.....	.....	nw.	0.12	3.	.....	**M. de Villemontée, Dir.**
Commercy, Normal School	29.47	748.5	30.37	771.5	41.7	5.4	88	w.	.....	.....	1	.....	2 k; n	w.	w.	0.83	21.	slightly cl'dy	**Dr. Coulet, Director.**
Gap, Normal School	27.77	705.3	30.39	771.8	42.8	6	59	nw.	.....	.....	3	.....	0	.....	.....	0.08	2.	.....	**M. Jeangirard, Director.**
Gréasque, du Rhone	29.22	742.3	30.39	771.8	48.4	9.1	58	n.	.....	.....	3	.....	10	.....	calm	0.020	0.5	.....	**M. Kina, Director.**
Grenoble, Normal School	29.67	753.7	30.48	774.1	44.6	7	74	nnw.	.....	.....	1	cs	0	n.	.....	0.331	8.4	.....	**M. Ablard, Director.**
Guéret	28.74	730 0	30.38	771.7	45.1	7.3	91	nw.	.....	.....	1	.....	2 n	.....	ne.	0.551	14.0	slightly cl'dy	**M. Delorme, Dir.**
Lamballe, Normal School	29.85	758.2	30.13	705.2	49.3	9.6	71	s.	.....	.....	2	.....	5	.....	s.	0.295	7.5	cloudy	**M. Ollitrault, Director.**
Lescar, Normal School	29.95	760.7	30.52	775.3	54.3	12.4	83	w.	.....	.....	1	0	8 n	.....	.....	.....	.....	raining	**M. Chauvin, Director.**
Lorient, Naval Observatory	30.29	769.3	30.39	771.9	51.1	10.6	63	s.	.....	.....	2	.....	10	.....	.....	0.071	1.8	covered	**Lt. T. Carré, Director.**
Lyon, St. Genis-Laval	29.38	746.2	30.47	774.0	46.0	7.8	57	nnw.	.....	.....	2	.....	5	.....	n.	0.134	3.4	fair	**M. André, Director.**
Mans, Normal School	30.11	764.8	30.43	773.0	43.7	6 5	83	wsw.	.....	.....	3	.....	2	.....	nw.	0.43	11.	slightly cl'dy	**M. Piboën, Director.**
Marseille, Observatory	30.09	764.2	30.36	771.2	52.0	11.1	63	wnw.	.....	.....	4	.....	4	.....	wnw.	0.012	0.3	.....	**M. Stephan, Director.**
Montlouis	25.16	639.0	30.00	762.0	43.7	6.5	46	sw.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	**M Caré for Dr. Finot.**
Montpellier, Normal School	30.20	767.0	30.33	770.4	52.5	11.4	74	e.	.....	.....	3	.....	2	nw.	s.	0	0	slightly cl'dy	**M. Galzin, Director.**
Nancy, Normal School	29.47	748.4	30.28	769.0	41.7	5.4	61	ssw.	.....	.....	3	.....	k	.....	.....	0.276	7.0	.....	**M. Hasse, Director.**
Nantes, Observatory	30.30	769.6	30.36	771.2	52.9	11.6	60	ssw.	.....	.....	0–2	4 ck	0	wnw.	.....	0.201	5.1	.....	**M. Larocque, Director.**
Perpignan, Observatory	30.33	770.3	30.44	773.1	62.4	16.9	43	n.	15.0	6.7	.....	.....	3	.....	nw.	0	0	.....	**Dr. Fines, Director.**
Pic-du-Midi, Summit	21.46	545.2	.....	.....	21.0	— 6.1	.....	nw.	.....	.....	2	.....	1	.....	nw.	0	0	clear	**M. Vaussenat.**
Privas, Normal School	29.32	744.6	30.42	772.6	46.0	7.8	51	nw.	.....	.....	1	.....	2	nw.	nw.	0	0	slightly cl'dy	**M. Taillen.**
Puy de Dôme Obs'y, Summit	25.40	645.1	.....	.....	27.1	— 2.7	100	wnw.	.....	.....	4	.....	10	.....	.....	0.913	23.2	foggy	**M. Alluard, Director.**
Rochefort, Naval Obs'y	30.43	772.8	30.46	773.6	52.2	11.2	71	calm	.....	.....	0	.....	0	.....	.....	0.12	3.	clear	**Lt. E. Decante, Director.**
Roche-sur-Yon, N. School	30.17	766.2	30.39	771.8	36.7	2.6	71	s.	.....	.....	1	.....	8	.....	w.	0.16	4.	very cloudy	**M. Brotier, Director.**
Rodez, Normal School	28.33	719.5	30.55	776.0	43.2	6.2	82	w.	.....	.....	1	.....	5	.....	e.	0.16	4.	fair	**M. Seger, Director.**
Rouen, Normal School	30.20	768.7	30.31	769.9	44.2	6.8	91	w.	.....	.....	1	.....	2	nw.	.....	0.240	6.1	slightly cl'dy	**M. Mouillot.**
Saint Lô	.....	.....	.....	.....	47.3	8.5	71	nw.	.....	.....	1	.....	5	.....	sw.	0.122	3.1	cloudy	**M. Delaplanche, Dir.**
Saint Maur, Observatory	30.21	767.2	30.37	771.4	47.1	8.4	65	w.	.....	.....	1	.....	1	nw.	.....	0.173	4.4	.....	**M. Renou, Director.**
Toulouse, Observatory	29.79	756.7	30.52	775.3	48.9	9.4	91	n.	.....	.....	3	.....	10	.....	.....	0.071	1.8	covered	**M. Baillaud, Director.**
Tours	30.25	768 4	30.43	772.9	47.5	8.6	72	sw.	.....	.....	1	.....	0	.....	.....	0.350	8.9	clear	**M. de Tastes.**
Versailles, Observatory	29.85	758.2	30.35	770.8	45.3	7.4	66	sw.	.....	.....	1	.....	.....	.....	.....	0.051	1.3	.....	**Dr. A. Bérigny, Director**
Sub-series.																			
St. Martin du Hinx	30.40	772.2	30.55	776.0	55.2	12.9	79	sw.	7.8	3.5	.....	.....	10 k	.....	sw.	0.012	0.3	.....	**M. Cartier, Director.**
German.																			
Ansbach	28 69	728 7	30.20	767.0	37.0	2.8	67	w.	.....	.....	8	.....	6	w.	.....	0.051	1.3	.....	**Prof. Jnedt.**
Bamberg	29.25	743.0	30.10	764.5	39.2	4.0	62	w.	.....	.....	5	.....	5	w.	.....	0.157	4.0	.....	**Prof. Dr. Hoh.**
Berlin	29.49	749.0	29.64	752.6	35.2	1.8	87	nw.	.....	.....	7	.....	10	.....	.....	.....	.....	rain & snow	**Dr. Lensch.**
Breslau	29.23	742.4	29.75	755.7	40.1	4.5	60	w	.....	.....	5	.....	10	.....	.....	0.016	0.4	showery	**Royal University Obs'y**
Carlsruhe	29.83	757.6	30.28	769.2	43.5	6.4	61	sw.	.....	.....	10	.....	10	w.	.....	0	0	.....	**Albert Senz.**
Cassel	29.30	744.1	30.01	762.2	38.5	3.6	70	w.	.....	.....	8	.....	8	nw.	.....	0	0	.....	**Dr. H. Möhl.**
Frankfort-on-the-Main	29.82	757.5	30.17	766.2	41.4	5.2	58	w.	.....	.....	2	.....	9	.....	.....	0.142	3.6	.....	**Physical Society.**
Friedrichshafen	28.86	733.1	30.35	770.9	41.4	5.2	67	w.	.....	.....	7	.....	5	w.	.....	0	0	.....	**Wilhelm, Chief Tel.**
Hamburg	29.74	755.3	29.83	757.6	38.7	3.7	82	wsw.	.....	.....	7	.....	6	nw.	.....	0.394	10.0	squally	**E. Preller.**
Kiel	29.70	754 4	29.72	754.8	39.2	4.0	88	w.	.....	.....	7	.....	7	.....	.....	0.378	9.6	snowing	**Prof. Dr. G. Karsten.**
Leipsic, Astrom'l Obs'y	29.43	747.6	29.87	758.6	39.9	4.4	62	wnw.	.....	.....	6	.....	9	wnw.	.....	0.031	0.8	.....	**H. Leppig, Asst.**
Magdeburg	29.57	751.1	29.76	756.0	38.8	3.8	82	wnw.	.....	.....	8	.....	10 ks	.....	wnw.	0.213	5.4	.....	**Weather Observatory.**
Memel	29.52	749.8	29.56	750.9	29.7	— 1.3	94	sse.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	**Issermann.**
Munich	28.34	719.8	30.21	767.4	36.7	2.6	70	w.	.....	.....	5	.....	6	w.	.....	0.020	0.5	.....	**Central Station.**
Neufahrwasser	29.47	748.6	29.49	749.0	37.8	3.2	85	sw.	.....	.....	4	.....	10	.....	.....	0.004	0.1	.....	**A. Lothes.**
Neustadt, Palatinate	29.65	753.2	30.18	766.6	41.7	5.4	60	w.	.....	.....	3	.....	6	w.	.....	0	0	.....	**Dicknether.**
Stuttgart	29.27	743.4	30.19	766.9	41.0	5.0	57	w.	.....	.....	6	.....	2	w.	.....	0	0	.....	**Prof. Dr. Schoder.**
Wustrow	29.56	750.8	29.58	751.4	34.9	1.6	100	w.	.....	.....	8	0	8 s	.....	.....	0.071	1.8	.....	**Profs. Brandes & Reimer**
Greek.																			
Athens	29.59	751.6	29.98	761.6	46.2	7.9	.....	nw.	.....	.....	2.0	1	6 k	.....	.....	0	0	.....	**Schmidt & Wourltsch.**
Indian.																			
Kurrachee	29.93	760.3	29.98	761.6	68.0	20.0	42	sw.	17.0	7.6	.....	.....	1	.....	.....	0	0	d. clouds	
Deesa	29.46	748.4	29.95	760.7	70.6	21.4	11	wsw.	5.0	2.2	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.87	758.7	29.91	759.7	74.7	23.7	61	nnw.	18.0	8.0	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.99	710.9	29.84	758.0	79.8	26.6	20	wnw.	2.0	0.9	.....	.....	4	w.	.....	0	0	d. clouds	
Belgaum	27.30	693.5	29.82	757.5	79.3	26.3	24	sw.	9.0	4.0	.....	.....	4	s.	.....	0	0	d. clouds	
Lahore	29.18	741.0	29.96	761.0	54.7	12.6	59	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	29.07	738.4	30.02	762.4	58.2	14.6	58	calm	0	0	.....	.....	0	.....	.....	0.01	0.3	.....	
Agra	29.41	747.1	30.01	762.1	60.3	15.7	55	s.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.87	733.3	29.93	760.2	73.5	23.1	25	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Jubbulpore	28.60	726.4	30.00	762.0	65.6	18.7	41	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.62	752.4	30.02	762.6	55.3	12.9	84	calm	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.68	753.8	30.01	762.2	50.8	13.8	69	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.79	756.7	29.99	761.7	61.4	16.3	57	nw.	3.1	1.4	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.91	708.8	30.01	762.2	56.5	13.6	49	nnw.	6.4	2.9	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.86	758.6	29.95	760.7	74.0	23.3	57	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.95	760.8	29.98	761.4	66.8	19.3	60	n.	2.0	0.9	.....	.....	0	.....	.....	0.04	1.0	blue sky	
Dhubri	29.82	757.3	29.94	760.4	63.1	17.3	92	calm	1.4	0.6	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.86	758.3	29.95	760.7	67.6	19.8	62	nw.	4.5	2.0	.....	.....	2	.....	.....	0	0	blue sky	
Sibsagar	29.61	752.2	29.90	761.1	59.6	15.3	88	sw.	2.0	0.9	.....	.....	10	w.	w.	0.40	10.2	overcast	
Zanzibar	29.76	755.9	29.78	756.4	87.7	30.9	57	ne.	8.9	4.0	.....	.....	5	.....	.....	0	0	d. clouds	
Jeypore	28.48	723.3	29.98	761.4	61.4	16.3	34	sw.	1.8	0.8	.....	.....	0	.....	.....	0	0	blue sky	
Bellary	28.35	720.1	.....	.....	85.5	29.7	30	ese.	.....	.....	.....	7 ck	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.57	751.1	.....	.....	86.5	30.3	47	e.	1	0.4	.....	.....	8	.....	.....	0	0	d. clouds	

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.66	753.3	30.08	764.1	42.6	5.9	60	ne.	1.8	0.8	.....	.....	0	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.62	752.3	30.16	766.1	42.8	6.0	56	sw.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	Prof. Schiapparelli.
Padua	29.97	761.3	30.09	764.2	37.9	3.3	69	n.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.25	743.0	30.20	767.1	40.1	4.5	54	e.	2.5	1.1	.....	.....	1	s.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.93	760.0	30.12	765.0	54.1	12.3	38	nw.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.22	716.8	30.23	767.8	42.3	5.7	34	w.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.06	763.4	30.11	764.7	43.5	6.4	73	w.	7.4	3.3	.....	.....	10	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.88	759.0	30.15	765.7	41.9	5.5	72	e.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.97	761.5	30.06	763.4	52.2	11.2	77	wsw.	11.2	5.0	.....	.....	10	wsw.	.....	0.008	0.2	.....	Prof. P. Monte.
Rome	29.98	761.5	30.16	766.1	49.8	9.9	56	n	0.7	0.3	.....	.....	10	.....	.....	0	0	.....	Prof. P. Tachini.
Lecce	29.90	759.5	30.16	766.1	51.8	11.0	52	nnw.	11.9	5.3	.....	.....	2	.....	.....	0.031	0.8	.....	Prof. C. de Giorgi.
Cosenza	29.34	745.3	30.26	768.6	48.2	9.0	73	w.	2.5	1.1	.....	.....	9	sw.	.....	0.370	9.4	.....	Prof. D. Conti.
Cagliari	30.12	765.0	30.32	770.1	57.4	14.1	59	nw.	.....	.....	6	.....	4	nw.	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	30.07	763.8	30.33	770.3	57.6	14.2	49	wsw.	8.7	3.9	.....	.....	7	nw.	.....	0.051	1.3	.....	Prof. G. Caccintore.
Syracuse	30.21	767.2	30.25	768.3	55.4	13.0	45	sse.	2.5	1.1	.....	.....	4	wnw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.67	753.7	30.21	767.4	49.3	9.6	64	sw.	3.1	1.4	.....	.....	10	sw.	.....	0.020	0.5	.....	Prof. F. Brioschi.
Stelvio	22.14	562.4	.....	.....	14.4	— 9.8	74	ne.	.....	.....	4	.....	8	.....	.....	0.118	3.0	misty	Prof. P. F. Denza.
Valdobbia	22.14	562.4	.....	.....	16.9	— 8.4	61	se.	.....	.....	0	.....	0	.....	.....	1.181	30.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.96	761.1	29.99	761.9	26.1	— 3.3	74	nw.	.....	.....	2	.....	10 clkn	.....	nw.	0.055	1.4	snowing	Hattori.
Awomori	29.84	757.6	29.88	758.8	24.0	— 4.4	92	nw.	20.9	9.3	.....	.....	10 n	.....	.....	0.040	1.0	snowing	K. Ogawa.
Hakodate	29.79	756.6	29.80	756.9	25.2	— 3.8	100	nw.	24.0	10.7	.....	0	8	.....	.....	0.010	0.3	cloudy	
Hamamatsu	30.00	763.5	30.09	764.2	33.8	1.0	56	nw.	.....	.....	4	0	0	.....	.....	0	0	clear	
Kagoshima	30.13	765.3	30.14	765.6	41.5	5.3	88	n.	.....	.....	2	0	5 s	.....	.....	0	0	fair	G. Miyanohasa.
Kioto	30.04	763.1	30.23	767.8	33.6	0.9	67	wnw.	4.6	2.1	.....	0	4 s	.....	.....	0	0	fair	M. Tojima.
Kochi	30.18	766.6	30.20	767.1	39.1	3.9	62	ne.	11.3	5.0	.....	0	0	.....	.....	0	0	clear	K. Kusunose.
Miasaka	30.15	765.7	30.17	766.4	47.9	8.8	74	ne.	.....	.....	4	.....	10ks;s	.....	ne.	0	0	covered	K. Masusaki.
Nagasaki, I. M. Obs'y	29.90	760.9	30.17	766.3	44.4	6.9	60	ne.	5.7	2.5	.....	.....	10 s	.....	.....	0	0	.....	S. Takehayashi.
Niigata	30.00	763.5	30.10	764.5	30.3	— 0.9	77	wnw.	19.6	8.7	.....	0	9 n	.....	wnw.	0.105	2.7	light snow	M. Morita.
Noshiro	29.95	760.0	29.96	761.0	23.8	— 4.6	78	nnw.	13.3	6.0	.....	0	0	.....	.....	0.035	0.9	clear	H. Midzushima
Numazu	29.96	760.9	29.99	761.8	33.2	0.7	62	calm	.....	.....	0	0	0	.....	.....	0	0	clear	R. Kaneda.
Sakai	30.28	769.0	30.29	769.3	36.2	2.3	70	ene.	.....	.....	2	.....	10 n	.....	n.	0.004	0.1	snowing	K. Yamawchi.
Sapporo	.....	.....	.....	.....	23.0	— 5.0	89	nw.	27.0	12.1	.....	.....	10	.....	.....	0.075	1.9	snowing	
Tokei Obs'y, Yeddo	29.92	760.0	30.00	762.1	34.9	1.6	59	nnw.	11.7	5.2	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	30.20	767.2	30.26	768.6	35.1	1.7	57	n.	9.9	4.4	.....	0	0	.....	.....	0	0	clear	Y. Kuwamuea
Osaka	30.24	768.2	30.26	768.6	34.0	1.1	69	nw.	6.2	2.8	.....	0	4 s	.....	.....	0	0	fair	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.57	751.1	29.75	755.6	81.5	27.5	74	nne.	14.0	6.3	.....	5ck;ks	4 ks;n	wnw.	n.	0.20	5.1	cloudy	Oliver & Figee.
MEXICAN.																			
Altata	.....	.....	.....	.....	56	13.3	96	nw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	clear	H. Diaz Pena.
Guanajuato	23.71	602.2	29.93	760.2	51.4	10.8	75	calm	0	0	.....	5 c	0	nw.	.....	0	0	foggy	Prof. Vicente Fernandez.
Leon	24.36	618.7	30.14	765.5	50.9	10.5	80	n.	.....	.....	1	8 c	1 s	.....	.....	0	0	very cloudy	Prof. M. Leal.
Mazatlan	29.78	756.3	30.04	763.0	63.5	17.5	91	nnw.	0.9	0.4	.....	10 cs	0	.....	.....	0	0	light fog	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.1	30.26	768.5	50.0	10.0	83	calm	0	0	.....	4 c	0	.....	.....	0.012	0.3	¾ cloudy	The Staff.
Morelia	24.30	617.2	30.19	766.8	50.5	10.3	70	se.	.....	.....	1	1 c	1 k	e.	e.	0	0	clear	M. Tena, M. D.
Pabellon	23.95	608.4	30.05	763.3	50.7	10.4	70	calm	0	0	.....	6 c	2 s	sw.	sw.	0	0	cloudy	
Puebla, Catholic Institute	23.41	594.7	30.26	768.5	46.4	8.0	65	calm	0	0	.....	0	4	.....	.....	0	0	½ cloudy	Prof. P. Spina.
Zacatecas	22.57	573.2	30.32	770.0	46.0	8.0	72	wsw.	9.4	4.1	.....	.....	10 ks	.....	ne.	0	0	covered	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.16	766.1	30.16	766.1	43.7	6.5	.....	wsw.	.....	.....	4	.....	.....	.....	.....	0.197	5.0	.....	
Groningen	29.87	758.7	29.93	760.1	41.9	5.5	.....	nw.	.....	.....	5	.....	.....	.....	.....	0.429	10.9	.....	
Hellevoetsluis	30.10	764.0	30.10	764.6	42.4	5.8	75	w.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Utrecht	30.09	763.4	30.10	764.6	44.6	7.0	68	w.	.....	.....	4	.....	2	.....	.....	0	0	lightly cl'dy	H. van der Brink
Sub-series.																			
Batavia, Java	29.80	756.9	.....	.....	76.8	24.9	92	ssw.	0	0	.....	.....	9	.....	.....	0.28	7.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.31	744.4	29.37	746.0	35.6	2.0	93	s.	18	8	.....	.....	10	.....	.....	0.134	3.4	raining	
Brono	29.05	737.9	29.09	738.9	33.8	1.0	85	ssw.	18	8	.....	.....	10	.....	.....	0.098	2.5	snowing	
Christiania	29.29	744.0	29.45	747.9	20.8	— 6.2	98	calm	0	0	.....	.....	10	.....	.....	0.055	1.4	.....	
Gjæsvær	29.11	739.4	29.13	740.0	21.6	— 5.8	.....	calm	.....	.....	0	.....	6	.....	.....	.....	.....	.....	
Lodingen	29.07	738.3	29.11	739.5	28.9	— 1.7	66	nne.	.....	.....	1	.....	5	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	30.00	762.0	30.16	766.1	61.2	16.2	87	wsw.	15.0	6.7	.....	.....	7	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.34?	745.2?	30.30?	771.1?	55.0	12.8	66	ne.	1.3	0.6	.....	.....	0	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.40	772.1	30.48	774.3	63.9	17.7	67	ese.	7.4	3.3	.....	.....	3	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.25	768.3	30.02	777.8	51.8	11.0	68	ene.	8.7	3.9	.....	.....	1	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.17	766.4	30.24	768.2	63.3	17.4	88	s.	9.4	4.2	.....	.....	10	.....	.....	0	0	.....	
Saint Paul de Loando	29.78	756 3	29.98	761.4	79.3	26.3	91	wnw.	1.8	0.8	.....	.....	8	.....	.....	0	0	.....	
Serra da Estrella	25 72	653.2	30.58	776.6	44 2	6.8	70	ene.	4.3	1.9	.....	.....	0	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.55	750.5	30.86	783.9	—28.7	—33.7	77	ssw.	7	3	.....	7 cs	0	.....	.....	.....	.....	.....	Major K. Lasarew.
Archangel	29.89	759.3	29.91	759.8	8.2	—13.2	84	sse.	4	2	.....	.....	10	.....	.....	0	0	.....	Capt. Sselliwerstow.
Ashuruda	30.25	768.4	30.16	766.0	42.8	6.0	82	wnw.	11	5	.....	.....	10 k	.....	.....	0	0	.....	
Astrakhan	30.47	774.0	30.39	771.9	23.2	— 4.9	71	ese.	18	8	.....	0	1 s	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.20	768.6	30.21	767.4	39.7	4.3	80	ese.	9	4	.....	0	1 ks	.....	.....	0.028	0.7	.....	
Barnaul	30.23	767.8	30.84	783.4	—32.4	—35.8	74	sw.	2	1	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Bielosersk	29.61	752.1	30.13	765.2	6.6	—14.1	77	se.	9	4	.....	0	1 s	.....	.....	0.004	0.1	.....	
Dorpat	29.55	750.5	29.80	757.0	23.7	— 4.6	98	s.	4	2	.....	.....	10 n	.....	.....	0.012	0.3	.....	Observatory.
Ekaterinburg	29.43	747.5	30.49	774.4	9.0	—12.3	78	w.	22	10	.....	9 c	0	.....	.....	0	0	light clouds	Meteorological Obs'y.
Elissawetgrad	29.54	750.4	30.03	762.7	25.0	— 3.4	91	ese.	4	2	.....	.....	10 n	.....	.....	0.047	1.2	.....	
Irkutsk	28.60	727.9	30.48	774.2	4.8	—15.1	88	nnw.	.....	.....	4	.....	10	.....	.....	0.008	0.2	.....	
Kasan	30.27	768.8	30.57	776.5	6.3	—14.3	77	sse.	7	3	.....	.....	0	.....	.....	0	0	.....	Observatory.
Kem	29.67	753.6	29.72	754.9	16.9	— 8.4	88	s.	18	8	.....	.....	10	.....	.....	0	0	heavy cl'ds.	
Kertch	29.91	759.8	29.93	760.3	29 3	— 1.5	86	calm	0	0	.....	0	0 k	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.32	744.6	30.00	762.1	15.6	— 9.1	78	se.	4	2	.....	.....	10 ks	.....	.....	0.020	0.5	.....	Observatory.
Koslov	29.75	755.7	30.34	770.5	9.7	—12.4	97	se.	9	4	.....	.....	10 s	.....	.....	0	0	.....	
Libau	29.48	748.9	29.51	749.5	30.7	— 0.7	91	sse.	16	7	.....	.....	10	.....	.....	0.016	0.4	snowing	E. Quaas.
Lugan	29.89	759.1	30.09	764.2	21.6	— 5.8	80	ene.	34	15	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.70	754.3	30.24	768.0	5.0	—15.0	84	ese.	7.8	3.5	.....	.....	10 n	.....	.....	0	0	.....	
Nikolaiev	29.89	759.3	29.97	761.2	20.3	— 1.5	96	calm	0	0	.....	.....	10 n	.....	.....	0.098	2.5	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.01	762.3	30.10	764.5	— 8.7	—22.6	69	w.	4	2	.....	.....	2	.....	.....	0.008	0.2	.....	Iwanow.
Pekin, China	30.24	768.1	30.38	771.7	21.9	— 5.6	96	calm	0	0	.....	.....	10 n	.....	.....	0.114	2.9	snowing	Physicle Observatory.
Petrozavodsk	29.65	753.1	29.86	758.5	13.6	—10.3	80	ssw.	11	5	.....	.....	9 ks	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.30	745.8	29.89	759.3	17.6	— 8.0	71	se.	13	6	.....	0	4 s	.....	.....	0	0	.....	
Poti	29.87	758.8	29.89	759 3	48.6	9.2	66	e.	7	3	.....	0	5 s	.....	.....	0	0	.....	
St. Petersburg	29.84	758.0	29.86	758.4	13.5	—10.3	87	sse.	13	6	.....	.....	10 n	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.75	704.9	30.44	773.2	10.2	— 8.8	67	e.	13	6	.....	0	0	.....	.....	.....	.....	.....	
Sevastopol	29.70	754.4	29.87	758.0	39.0	3.9	97	ne.	4	2	.....	.....	10 n	.....	.....	0.193	4.9	heavy clouds	
Semipalatinsk	30.15	765.9	30.96	786.3	—34.6	—37.0	78	wnw.	4	2	.....	.....	1	.....	.....	0	0	.....	Major Lasarew.
Staroi Bykhov	29.55	750.6	30.05	763.2	12.6	—10.8	93	se.	7	3	.....	.....	10	.....	.....	.....	.....	light snow	
Tiflis	28.74	730.0	30.23	767.9	34.0	1.1	66	e.	4	2	.....	.....	10	.....	.....	0	0	.....	Physical Observatory.
Tomsk	30.30	769.5	30.63	778.1	—31.4	—35.2	80	s.	13	6	.....	.....	7 s	.....	.....	.....	.....	.....	
Vlatka	29.78	756.3	30.49	774.4	— 1.8	—18.8	.....	s.	2	1	.....	.....	7	.....	.....	0	0	.....	
Warsaw	29.26	743.2	29.69	754.2	35.1	1.7	71	sw.	11	5	.....	.....	9	.....	.....	0.079	2.0	.....	Astronomical Obs'y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Wilna	29.37	746.1	29.82	757.4	20.8	— 6.2	82	se.	4	2			7			inap.	inap.	heavy clouds	Berg, Assistant.
Yeniseisk	30.29	769.4	30.64	778.2	—33.3	—36.3	76	w.	2	1			0			0	0		M. O. Marks.
Scottish.																			
Monach Lt			29.31	744.5	42	5.6	91	w.			6		10			0.3	8.	showery	J. Youngclauss.
North Unst			29.18	741.2				w.			7	3	4	w.		blank	blank	"	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.34	770.6	30.45	773.3	55.8	13.2	49	nw.	2.7	1.2		0	0			0	0	clear	Antonio Reve, Director.
Bilbao, Met. Obs'y	30.52	775.2	30.58	776.7	59.5	15.3	61	se.	1.3	0.6		2	3	nw.		0.059	1.5	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.57	700.2	30.67	778.9	44.6	7.0	60	sw.	5.8	2.6			7			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	28.32	719.2	30.63	777.9	49.8	9.9	63	e.	1.6	0.7		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.37	771.4	30.51	774.9	66.4	19.1	61	wsw.	2.7	1.2		0	2			0	0	clear	Olayo Diaz, Director.
Oviedo	29.64	752.9	30.52	775.2	48.2	9.0	88	s.	6.7	3.0		3 8	0			0	0	almost clear	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.57	751.1	30.49	774.5	50.7	10.4	98	s.	10.5	4.7			10			0.122	3.1	fair	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																		misty	
Manilla, Philippine Islands	29.87	758.6	29.92	760.0	78.5	25.8	81	e.	24.6	11.0		0	0			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.45	773.3	30.55	775.9	58.6	14.8	72	n.	3.3	1.5		0	1		nnw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.03	762.8	30.12	765.1	70.5	21.4	98	s.	4.5	2.0		6 k	7 kn	s.	s.	0.551	14.0	overcast	Manuel Maese.
Swedish.																			
Haparanda	29.33	744.9	29.37	745.9	24.4	— 4.2	100	se.			4		10					snowing	
Umea	29.30	744.2	29.35	745.5	33.4	0.8	92	sw.			4		10			0.118	3.0		
Hernosand	29.26	743.3	29.32	744.6	32.4	0.2	81	calm			0		1			0.146	3.7		
Stockholm	29.22	742.3	29.40	746.8	32.5	0.3	98	ese.			2		10			0.020	0.5	snowing	
Wisby	29.26	743.2	29.32	744.7	35.2	1.8	93	s.			2		10			0.008	0.2		
Sub-series.																			
Upsala	29.07	738.4	29.31	744.4	34.2	1.2	91	se.	9.8	4.4			10		s.	0.028	0.7	snowing	S. G. Fineman.
Swiss.																			
Geneva	29.00	736.5	30.45	773.3	46.4	8.0	60	wsw.			2		7			0.217	5.5	cloudy	The Observatory.
Turkish.																			
Constantinople			29.97	761.2	36.0	2.2	76	n.	13	6.0			10		n.	0	0		The Observatory.
Valona			30.15	765.9	47.7	8.7		n.			1		5			0.08	2.	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.96	761.0	59.0	15.0	72	sw.			2		10 n		sw.	0.77	19.6		Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.71	678.4			30	— 1.1	83	se.			1		10 n		e.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.93	760.2	30.02	762.5	35.5	1.9	79	s.	1	0.4			10 n			0.02	0.5	light snow	J. O. Barnes.
Alpena, Michigan	29.35	745.5	30.06	763.5	18	— 7.8	84	w.	5	2.2		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.18	639.6	30.30	769.6	14	—10.0	70	ne.	2	0.9		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.09	688.1	30.13	765 3	24	— 4.4	64	w.	14	6.3		3 k	0	w.		0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.84	732.5	30.07	763.8	57 0	13.9	100	sw.	5	2.2			10 n		sw.	0.03	0.8	light rain	H. C. Smith.
Atlantic City, New Jersey	29.96	761.0	29.97	761.2	38	3.3	100	s.	7	3			10n;fg			0.06	1.5	light rain	Jas. M. Watson.
Augusta, Georgia	29.87	758.7	30.07	763.8	59	15.0	93	calm	0	0			10 s		sw.	0.12	3.0	cloudy	John Healy.
Baltimore, Maryland	29.96	761.0	30.09	762.0	39	3.9	89	calm	0	0			fg.			0.11	2.8	dense fog	Geo W Felgar.
Barnegat, New Jersey	29.96	761.0	29.98	761.5	37.0	2.8	100	sw.	4	1.8			10n;fg			0.05	1.3	light rain	G. A. Hill.
Behring Id., Behring Sea	29.95	761.0	29.98	761.5	27.0	— 2.8		se.	10	4.5			10 n			inap.	inap.	cloudy	Leonard Steineger.
Bennett, Fort, Dakota	28.36	720.3	30.10	764 5	8	—13.3	87	se.	4	1.8		5 c	5 8	nw.		0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.17	690.1	30.15	765.8	30	— 1.1	70	sw.	10	7.2		7 k	3 8	sw.		0	0	cloudy	S. Wheaton.
Billings, Montana	26.74	679.2			30	— 1.1	60	w.	28	12.5		1 c	0	nw.		0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.11	714.0	30.10	764.5	— 4	—20.0	67	calm	0	0			10 8			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.00	762.0	30.03	762.7	36	2.2	89	calm	0	0			10s:fg			0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.31	693.7	30.24	768.1	30	2.2	92	sw.	1	0.4			10 8			0.01	0.3	cloudy	B. E. Light.
Boston, Massachusetts	29.85	758.2	30.02	762.5	36.5	2.5	94	calm	0	0			10n;fg			0.05	1.3	cloudy	O. B. Cole.
Brownsville, Texas	30.02	762.5	30.06	763.5	59.5	15.3	75	n.	11	4.9			10 8		n.	0.03	0.8	light rain	M. McCarty.
Buffalo, New York	29.25	742 9	30.05	763.3	30.7	— 0.7	90	nw.	3	1.3			10 8			0.01	0.3	cloudy	W. Finn.
Buford, Fort, Dakota	27.88	708.1	30.08	764.0	— 1	—18.3	72	e.	1	0.4			10 8			0.05	1.3	cloudy	F. A. Mellen.
Burlington, Vermont	29.73	755.1	30.04	763.0	24.3	— 4.3	86	n.	3	1.3			10 8		n.	0	0	cloudy	G. O. Schaeffer.
Cairo, Illinois	29.73	755.1	30.15	765.8	34.8	1.6	91	n.	10	4.5			10 8		n.	0.02	0.5	cloudy	W. H. Ray.
Cape Henry, Virginia	30.00	762.0	30.02	762.5	45	7.2	100	se.	4	1.8			fg.			1.18	30.0	threatening	A. K. Alderson.
Cape May, New Jersey	29.94	760.5	29.97	761.2	42.0	5.6	82	s.	15	6.7			10 8			0	0	dense fog	W. E. Smith.
Cape Mendocino, California	29.65	753.1	30.35	770.9	48	8.9	86	se.	16	7.2		5 ck	0	nw.		0.05	1.3	light rain	J. J. McLean.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	62	16.7	93	s.	3	1.3			fg.			0.04	1.0	fair	F. W. Mixer.
Champaign, Illinois	29.26	743.2	30.12	765.0	20.3	— 6.5	64	n.	4	1.8		0	0 8		n.	0	0	dense fog	L. A. Welsh.
Charleston, S. Carolina	29.98	761.5	30.04	763.0	58	14.4	100	sw.	5	2.2			fg.			0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.12	739.6	30.01	762.2	51.0	10.6	100	s.	5	2.2			fg.			0.73	18.5	dense fog	D. O'Donoghue.
Chattanooga, Tennessee	29.14	740.1	30.00	762.0	58.0	14.4	96	s.	6	2.7			10 n			0	0	dense fog	B. L. Goulding.
Cheyenne, Wyoming	23.93	607.8	30.18	766.6	27.4	— 2.6	41	nw.	24	10.7			10 8		s.	0.02	0.5	light rain	J. Mitchell.
Chicago, Illinois	29.36	745.7	30.11	764.8	15.9	— 8.9	70	w.	3	1.3		0	0			0	0	clear	E. McGovern.
Chincoteague, Virginia	29.98	761.5	30.00	762.0	44	6.7	100	s.	6	2.7			fgn;fg			0	0	cloudy	J. Mitchell.
Cincinnati, Ohio	29.36	745.7	30.05	763.3	37	2.8	89	n.	4	1.8			10 8			inap.	inap.	light rain	C. F. Dickens.
Cleveland, Ohio	29.28	743.7	30.06	763.5	31	— 0.6	88	nw.	5	2.2			10 8			0.78	19.8	cloudy	R. B. Watkins.
Coleman City, Texas	28.40	721.3	30.28	769.1	32	0.0	88	n.	3	1.3		0	0			inap.	inap.	cloudy	J. B. Newlin.
Columbus, Ohio	29.14	740.1	30.04	763.0	34	1.1	78	n.	6	2.7			10 8			0	0	clear	L. Dorman.
Concho, Fort, Texas	28.26	717.8	30.28	769.1	33.8	1.0	81	calm	0	0			10 8			0.47	11.9	cloudy	D. Cuthbertson.
Davenport, Iowa	29.41	747.0	30.12	765.0	8	—13.3	76	nw.	4	1.8		0	fg.			0	0	cloudy	J. McGlone.
Davis, Fort, Texas	25.33	643.4	30.31	769.9	31	0.6	65	sw.	4	1.8		7 cs	0			0	0	clear	W. B. Lamar.
Dayton, Washington T'y	28.43	722.1	30.23	767.8	38	3.3	82	s.	8	3.6			10 8			0	0	fair	J. Williams.
Deadwood, Dakota	25.19	639.8	30.13	765.3	28	— 2.2	80	ne.	3	1.3			0			0.06	1.5	cloudy	D. Moore.
Delaware Breakwater, Del.	29.96	761.0	29.98	761.5	41	5.0	100	s.	10	4.5			fg			0	0	clear	F. Willson.
Denison, Texas	29.38	746.2	30.22	767.6	35.0	1.7	79	nw.	4	1.8			0			0.01	0.3	dense fog	T. S. Townsend.
Denver, Colorado	24.67	626.6	30.19	766.8	36.0	2.2	46	sw.	7	3.1			0			0.03	0.8	clear	J. W. Byram.
Des Moines, Iowa	29.13	739.9	30.10	764.5	10.0	—12.2	58	calm	0	0			0			0	0	clear	F. M. Neal.
Detroit, Michigan	29.34	745.2	30.10	764.5	29.0	— 1.7	88	nw.	5	2.2			10 8			inap.	inap.	clear	F. W. Conrad.
Dodge City, Kansas	27.50	698.5	30.25	768.3	20	— 6.7	73	sw.	4	1.8		0	0			0	0	cloudy	G. F. R. Wappenhans.
Dubuque, Iowa	29.35	745.5	30.12	765.0	3.8	—15.7	63	s.	1	0.4		0	0			0	0	clear	V. P. Temple.
Duluth, Minnesota	29.21	741.9	30.02	762.5	10.0	—12.2	80	sw.	7	3.1			10 8			0	0	clear	J. Harvey Smith.
Eagle Pass, Texas	29.40	746.7	30.24	768.1	48.0	8.9	56	ne.	3	1.3		10 cs	0			inap.	inap.	cloudy	N. B. Conger.
Eagle Rock, Idaho	25.39	644.9	30.35	770.9	30	— 1.1	80	sw.	24	10.7			10 ks		sw.	0	0	cloudy	F. Belford.
Eastport, Maine	29.98	761.5	30.05	763.3	25.0	— 3.9	88	w.	8	3.6			10 8		w.	0.23	5.8	cloudy	J. M. Clifford.
Elliott, Fort, Texas	27.33	694.2	30.26	768.6	30	— 1.1	60	calm	0	0		0	0			0	0	clear	D. C. Murphy.
El Paso, Texas	26.52	673.6	30.40	772.1	25.0	— 3.9	76	nw.	4	1.8		0	0			0	0	clear	W. J. Cundall.
Erie, Pennsylvania	29.26	743.2	30.03	762.7	34	1.1	89	calm	0	0			10 8			0.07	1.8	cloudy	J. O'Dowd.
Escanaba, Michigan	29.29	744.0	30.01	762.2	— 5.0	—20.6	79	s.	1	0.4		0	5 8			0	0	fair	Peter Wood.
Fredericksburg, Texas	28.42	721.9	30.24	768.1	44	6.7	76	n.	3	1.3		5 cs	0			inap.	inap.	fair	George Heathcote.
Galveston, Texas	30.01	762.2	30.06	763.5	53	11.7	80	n.	20	8.9		9 k	0	w.		0.72	18.3	cloudy	Frank Halwegler.
Grand Haven, Michigan	29.36	745.7	30.07	763.8	29.0	— 1.7	88	sw.	4	1.8			10 8			inap.	inap.	cloudy	E. O'C. MacInernay.
Grant, Fort, Arizona	25.42	645 7	30.32	770.1	27	— 2.8	70	e.	6	2.7		0	0			0	0	clear	J. E. Mueller.
Hatteras, North Carolina	30.05	763.3	30.07	763.8	51	10.6	100	s.	12	5.4			10 n		e.	0.15	3.8	light rain	Robert C. Lord.
Helena, Montana	25.86	656.8	30.29	769.4	31	— 0.6	88	sw.	2	0.9			10 8			0.02	0.5	cloudy	R. M. Crawford.
Henrietta, Texas	29.19	741.4	30.26	768.6	28	— 2.2	77	calm	0	0		0	0			0	0	clear	N. C. Smith.
Huron, Dakota	28.58	725.9	30.12	765.0	1.8	—16.8	51	nw.	4	1.8		0	0			0	0	clear	J. P. Sherry.
Indianapolis, Indiana	29.23	742.4	30.07	763.8	32	0.0	78	n.	4	1.8			10 8		nw.	inap.	inap.	cloudy	S. W. Glenn.
Indianola, Texas	30.04	763.0	30.07	763.8	51.0	10.6	66	n.	27	12.1		5 cs	0	nw.		0.19	4.8	fair	J. F. Jirdinston.
Jacksboro, Texas	29.02	737.1	30.26	768.6	33	0.6	68	n.	2	0.9		3 cs	0			0	0	clear	I. A. Reed.
Jacksonville, Florida	30.05	763.3	30.10	764.5	65	18.3	90	sw.	1	0.4			10 8			0.42	10.7	cloudy	D. J. Carr.
Keogh, Fort, Montana	27.34	694.4	30.03	762.7	33	0.6	88	w.	25	11.2			10 8		w.	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.45	748.0	30.15	765.8	9.0	—12.8	87	nw.	1	0.4			fg.			0	0	dense fog	A. Schneider.
																			F. Z. Gosewisch.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.07	763.8	30.09	764.3	73.0	22.8	90	se.	6	2.7	.....	.....	10 ks	.....	se.	1.03	26.2	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.04	763.0	30.06	763.5	49	9.4	93	s.	5	2.2	.....	.....	10 ks	.....	sw.	0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	28.92	734.6	30.00	762.0	58	14.4	97	sw.	10	4.5	.....	.....	10 s	.....	sw.	0.20	5.1	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.21	741.9	30.05	763.3	7	—13.9	76	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.22	742.2	30.18	766.6	17	— 8.3	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.41	747.0	30.28	769.1	35.5	1.9	83	s.	2	0.9	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	W. Bell.
Little Rock, Arkansas	29.80	756.9	30.13	765.3	42	5.6	82	nw.	8	3.6	.....	3 cs	3 s	sw.	s.	1.63	41.4	fair	W. U. Simons.
Los Angeles, California	29.88	758.9	30.28	769.1	52	11.1	35	ne.	12	5.4	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.45	748.0	30.04	763.0	35	1.7	94	n.	8	3.6	.....	.....	10 n	.....	.....	1.29	32.8	light rain	L. M Dey.
Lynchburg, Virginia	29.25	742.9	29.97	761.2	44	6.7	100	calm	0	0	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	Louis Duane.
Mackinaw City, Michigan	29.30	744.2	30.00	762.0	22.0	— 5.6	93	s.	1	0.4	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.01	762.2	30.02	762.5	54.0	12.2	100	se.	16	7.2	.....	.....	10 n	.....	.....	0.65	16.5	heavy rain	William Daly.
Madison, Wisconsin	28.98	736.1	30.07	763.8	15	— 9.4	67	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.41	645.4	29.96	761.0	30	— 1.1	41	w.	24	10.7	.....	6 k	0	w.	.....	0.01	0.3	fair	F. Burke.
McKavett, Fort, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thatcher.
Marquette, Michigan	29.18	741.2	29.96	761.0	11	—11.7	80	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	29.74	755.4	30.10	764.5	38	3.3	100	nw.	16	7.2	.....	.....	10 s	.....	.....	0.64	16.3	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.28	743.7	30.08	764.0	17	— 8.3	67	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	W. Line.
Missoula, Fort, Montana	26.73	678.9	30.19	766.8	25	— 3.9	64	nw.	2	0.9	.....	6 k	0	w.	.....	0.06	1.5	fair	J. H. Young.
Mobile, Alabama	29.97	761.2	30.01	762.2	61.4	16.3	96	s.	4	1.8	.....	.....	10 n	.....	s.	0.14	3.6	thund'r st'm	C. A. Read.
Montgomery, Alabama	29.78	756.4	30.02	762.5	61.2	16.2	95	s.	7	3.1	.....	.....	10 s	.....	w.	0.13	3.3	cloudy	J. B. McLaughlin
Moorhead, Minnesota	29.01	736.8	30.12	765.0	— 5	—20.6	100	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.95	735.3	30.01	762.2	40.5	4.7	82	n.	6	2.7	.....	.....	10 n	.....	ne.	0.84	21.3	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.58	598.9	30.22	767.6	18.0	— 7.8	100	nw.	30	13.4	.....	.....	10 s	.....	.....	0.39	9.9	cloudy	S. W. Beall.
Nashville, Tennessee	29.38	746.2	29.98	761.5	43.5	6.4	79	nw.	8	3.6	.....	.....	10 n	.....	n.	0.67	17.0	light rain	L. N. Jesunofsky.
New Haven, Connecticut	29.90	759.4	30.02	762.5	33	0.6	100	calm	0	0	.....	.....	fg.	.....	.....	0.12	3.0	dense fog	J. H. Sherman.
New London, Connecticut	29.99	761.7	30.04	763.0	36	2.2	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. G. Lynch.
New Orleans, Louisiana	29.93	760.2	29.99	761.7	65.0	18.3	93	nw.	4	1.8	.....	.....	10 n	.....	w.	2.01	51.1	thund'r st'm	L. Dunne.
Newport, Rhode Island	29.99	761.7	30.04	763.0	36.0	2.2	100	sw.	2	0.9	.....	.....	10n;fg	.....	.....	0.06	1.5	light rain	W. McGillivray.
New York, New York	29.86	758.4	30.05	763.3	34	1.1	100	s.	5	2.2	.....	.....	fg.	.....	.....	0.17	4.3	dense fog	J. B. Merrill.
Norfolk, Virginia	29.99	761.7	30.02	762.5	50	10.0	100	s.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	Wm. Davis.
North Platte, Nebraska	27.06	687.3	30.18	766.6	13.6	—10.2	76	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.07	763.8	30.11	764.8	40.0	4.4	89	s.	1	0.4	.....	.....	10 n	.....	.....	0.36	9.1	light rain	J. Dascomb.
Omaha, Nebraska	28.85	732.8	30.12	765.0	21.7	— 5.7	77	s.	1	0.4	.....	6 cs	0	.....	.....	0	0	fair	A. Pollak.
Ooglaamie, Alaska	30.18	766.6	30.20	767.1	—34.0	—36.7	.....	ene.	8	3.6	.....	0	0	.....	.....	0	0	clear	P. H. Ray.
Oswego, New York	29.67	753.6	30.02	762.5	32.5	0.3	83	ne.	3	1.3	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. G. Linsley.
Palestine, Texas	29.61	752.1	30.19	766.8	39.5	4.2	79	n	8	3.6	.....	9 ck	0	w.	.....	0.01	0.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.01	762.2	30.04	763.0	62.0	16.7	100	ne.	1	0.4	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	M. McGauran.
Philadelphia, Pa	29.90	759.4	30.01	762.2	39	3.9	89	calm	0	0	.....	.....	fg.	.....	.....	0.18	4.6	dense fog	T. T. Townsend.
Pike's Peak, Colorado	17.50	444 5	30.20	767.1	— 6	—21.1	100	n.	.....	.....	9	0	0	.....	.....	0	0	clear	H. Hall.
Pioche, Nevada	24.23	615.4	30.43	772.9	22	— 5.6	76	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.16	740.7	30.01	762.2	38.0	3.3	94	calm	0	0	.....	.....	10 n	.....	.....	0.66	16.8	light rain	W. A. Reid.
Poplar River, Montana	27.68	703.1	30.03	762.7	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.02	762.5	30.03	762.7	65.2	18.4	93	s.	10	4.5	.....	0	48;fg	.....	s.	0	0	fair	H. B. Boyer.
Port Huron, Michigan	29.34	745.2	30.07	763.8	24.3	— 4.3	92	nw.	3	1.3	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	W. O. Bailey.
Portland, Maine	29.97	761.2	30.02	762.5	28.5	— 1.9	77	n.	3	1.3	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.10	764.5	30.17	766.3	47.4	8.6	93	s.	12	5.4	.....	.....	10 n	.....	sw.	0.54	13.7	light rain	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	55	12.8	100	s.	.....	.....	1	.....	10n;fg	.....	.....	0.19	4.8	light rain	F. S. Coburn.
Prescott, Arizona	24.98	634.5	30.36	771.1	17.5	— 8.1	87	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Provincetown, Mass	30.00	762.0	30.03	762.7	36	2.2	89	calm	0	0	.....	.....	10s;fg	.....	.....	0.08	2.0	cloudy	P. T. Jenkins.
Punta Rassa, Florida*	30.09	764.3	30.10	764.5	67	19.4	97	e.	3	1.3	.....	1 c	0	sw.	.....	0	0	clear	W. J. Evans.
Red Bluff, California	30.04	763.0	30.41	772.4	38	3.3	89	n.	4	1.8	.....	5 ck	0	n.	.....	0	0	fair	J. R. Williams.
Rochester, New York	29.33	745.0	30.04	763.0	31	— 0.0	100	e.	4	1.8	.....	.....	10s;fg	.....	.....	0.01	0.3	cloudy	E. W. McGann
Roseburg, Oregon	29.74	755.4	30.30	769.6	44	6.7	83	s.	2	0.9	.....	.....	10 s	.....	w.	0.04	1.0	cloudy	J. J. Nanry.
Sacramento, California	30.34	770.6	30.42	772.7	41.0	5.0	92	e.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.54	750.3	30.18	766.6	26.0	— 3.3	96	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.78	756.4	29.82	757.4	5	—15.0	100	sw.	22	9.8	.....	.....	10 n	.....	.....	0.13	3.3	light snow	A. P. Leavitt.
St. Paul, Minnesota	29.11	739.4	30.06	763.5	0.0	—17.8	83	calm	0	0	.....	1 cs	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.11	739.4	30.09	764.3	2	—16.7	85	sw.	2	0.9	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	C. B Dilley.
Salt Lake City, Utah	25.88	657.3	30.45	773.4	31	— 0.6	62	calm	0	0	.....	10 k	0	sw.	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.40	748.3	30.19	766 8	47.5	8.6	63	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	T. J. Kenan.
San Diego, California	30.18	766.6	30.25	768.3	47.7	8.7	36	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.34	745.2	30.06	763.5	32	0.0	81	n.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.01	762.2	30.04	763.0	35.0	1.7	100	sw.	6	2.7	.....	.....	fg.	.....	.....	0.08	2.0	dense fog	B. A. Blundon.
San Francisco, California	30.34	770.6	30.41	772.4	45	7.2	100	se.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.32	592.3	30.37	771.4	11	—11.7	50	n.	10	7.2	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.97	761.2	30.07	763.8	61	16.1	90	w.	6	2.7	.....	.....	10 n	.....	w.	0.57	14.5	light rain	H. W. Ford.
Shaw, Fort, Montana	26.35	669.3	30.21	767.3	26	— 3.3	67	w.	9	4.0	.....	2 cs	0	nw.	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.83	757.7	30.08	764.0	45	7.2	93	nw.	7	3.1	.....	.....	10 s	.....	nw.	0.16	4.1	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.94	735.1	30.27	768.8	20.5	— 3.1	75	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.28	616.7	30.14	765.5	30.0	— 1.1	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Sitka, Alaska	29.51	749.5	29.58	751.3	38.1	3.4	82	e.	8	3.6	.....	7 ck	0	e.	.....	0	0	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.08	753.9	30.18	766.6	32.0	0.0	88	calm	0	0	.....	0	0	.....	.....	0.10	2.5	clear	J. B. Campbell.
Smithville, North Carolina	29.97	761.2	30.01	762.2	60	15.6	100	w.	4	1.8	.....	.....	10s;fg	.....	w.	0.41	10.4	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.16	715.3	30.30	769.6	32.7	0.4	93	s.	5	2.2	.....	.....	10 s	.....	.....	0.14	3.6	cloudy	H. Clifford.
Springfield, Illinois	29.42	747.3	30.15	765.8	24	— 4.4	88	n.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	T. B. Jennings.
Springfield, Missouri	28.66	728.0	30.18	766.6	29.0	— 1.7	77	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	J. H. Bryce.
Starkville, Miss	29.50	749.3	30.00	762.0	60	15.6	90	s.	4	1.8	.....	.....	10 s	.....	s.	0.05	1.3	cloudy	C. Dill.
Stevenson, Fort, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Burrows.
Stockton, Fort, Texas	27.15	689.6	30.29	769.4	29	— 1.7	49	sw.	5	2.2	.....	5 c	0	w.	.....	0	0	fair	A. J. Warren.
Thatcher's Island, Mass	29.98	761.5	30.04	763.0	37.5	3.1	100	w.	4	1.8	.....	.....	10n;fg	.....	.....	0.01	0.3	light rain	G. Liebmann.
Thomas, Camp, Arizona	27.54	699.5	30.37	771.4	26	— 3.3	76	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.34	745.2	30.08	764.0	30	— 1.1	78	nw	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	A. Buell.
Tucson, Arizona	27.78	705.6	30.28	769.1	29	— 1.7	80	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.85	758.2	30.24	768.1	38	3.3	89	se.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	28.3	— 2.1	59	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.74	755.4	30.02	762.5	55.0	12.8	90	calm	0	0	.....	.....	10 n	.....	.....	0.01	0.3	light rain	James Kenealy.
Visalia, California	30.02	762.5	30.41	772.4	36.6	2.6	87	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.39	619.5	30.18	766.6	32.3	0.2	70	w.	16	7.2	.....	3 k	0	w.	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	29.87	758.7	29.99	761.7	38.0	3.3	100	ne.	1	0.4	.....	.....	10n;fg	.....	.....	0.05	1.3	light rain	B. M. Purssell.
West Las Animas, Colorado	26.09	662.7	30.23	767.8	13	—10.6	74	w.	4	1.8	.....	2 k	0	nw.	.....	0	0	clear	F. H. Brandenburg
Williamsport, Pa	29.35	745.5	29.98	761.5	36	2.2	83	ne.	1	0.4	.....	.....	10 n	.....	.....	0.41	10.4	light rain	B. F. Hough.
Wilmington, N. Carolina	29.96	761.0	30.02	762.5	60	15.6	93	s.	1	0.4	.....	.....	fg.	.....	.....	0.02	0.5	dense fog	Samuel A. Haney.
Winnemucca, Nevada	25.87	657.1	30.41	772.4	30	— 1.1	60	sw.	5	2.2	.....	5 ck	3 s	w.	w.	0	0	cloudy	J. Grover.
Yankton, Dakota	28.65	727.7	30.07	763.8	14	—10.0	64	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	30.11	764.8	30.26	768.6	51.8	11.0	42	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.02	559.3	.....	.....	52.0	11.1	76	calm	0	0	.....	2 c	0	w.	.....	0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	69	20.6	88	n.	1	0.4	.....	8 ck	2 s	sw.	e.	0	0	fair	Robert Johnston.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	76	24.4	91	e.	.....	.....	3	.....	8 ks	e.	e.	0.530	13.5	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.39	746.5	29.95	760.7	76	24.4	89	calm	.....	.....	0	.....	10 ks	.....	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.60	751.8	29.66	753.4	32	0.0	78	calm	.....	.....	0	.....	5 k	.....	.....	0	0	clear	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Walloe.
York Factory, B. A.	30.00	762.0	30.07	763.8	—24.0	—31.1	.....	nw.	11	4.9	.....	2 k	2 s	nw.	nw.	0.01	0.3	fair	Fortescue & Wood.

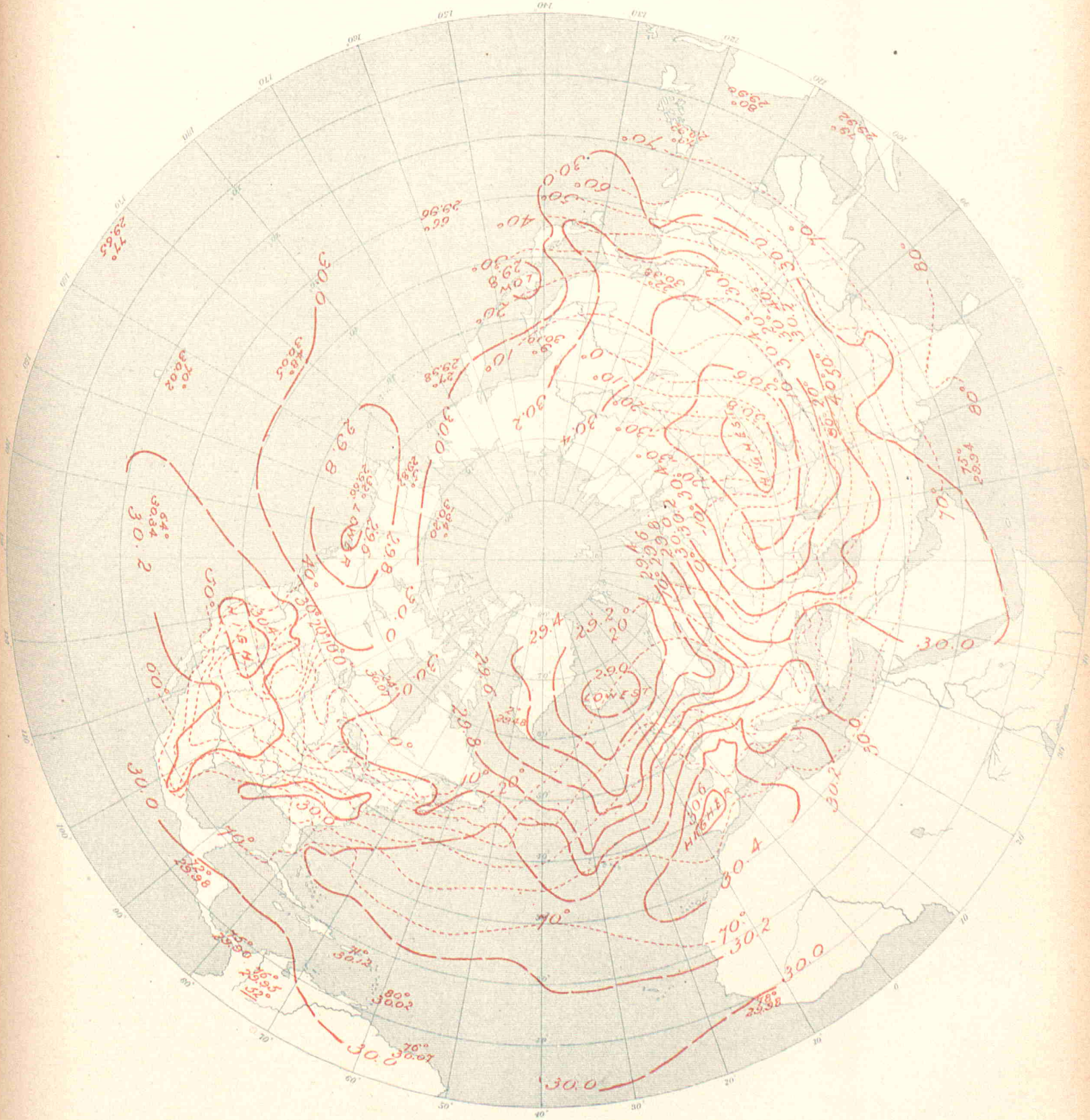
*Observation 35 minutes late.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
British Naval.																		
H. M. S. Amethyst, Port Stanley, Falkland Island†	29.62	752.3	56	13.3	87	wnw.			5		4	nw.				2	wnw.	misty.
H. M. S. Audacious, Hong-Kong, China	29.81	757.2	62	16.7	88	e.			2		7	ese.						
H. M. S. Boadicea, S. 15° 00′ W. 6° 46′	30.12	765.0				ne.			2–3		2							d. clouds.
H. M. S. Champion, Singapore, Malay peninsula	29.92	760.0	79	26.1	95	n.			1		8							d. clouds.
H. M. S. Cleopatra, N. 31° 15′ E. 121° 29′	29.98	761.5	45	7.2	92	e.			2		10							overcast.
H. M. S. Comus, S. 5° 40′, W. 81° 26′	29.98	761.5	65	18.3	100	s.			1									foggy.
H. M. S. Constance, S. 24° 14′ W. 40° 46′	30.03	762.7	76	24.4	60	ssw.			5–6		4	ne.				6	sw.	d. clouds.
H. M. S. Curacoa, Yokohama, Japan	29.86	758.4	42.5	5.8	58	n.			1–2		4	n.						d. clouds.
H. M. S. Crocodile N. 10° 54′, E. 62° 51′	29.94	760.5	75	23.9	68	ene.			2		0					sm'h		blue sky.
H. M. Dock Yard, Bermuda, W. I.	30.31	769.9	62	16.7	83	calm			0		3							d. clouds.
H. M. S. Eclipse, N. 18° 54′, E. 72° 49′	29.81	757.2	74	23.3		nw.			1–2		3							d. clouds.
H. M. S. Fawn, S. 9° 21′, W. 12° 44′	30.02	762.5	77	25.0	92	ene.			2		6	nw.				1	ene.	d. clouds.
H. M. S. Flying Fish, N. 27° 16′, E. 122° 16′	29.85	758.2	65	18.3	100	e.			2		10					3	e.	raining.
H. M. S. Fox Hound, Labuan Island, Borneo	29.90	759.4	79.5	26.4		nne.			1		9							overcast.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.96	761.0	60	15.6	85	ene.			1		10							drizzling.
H. M. S. Heroine, S. 30° 55′ W. 47° 42′	30.20	767.1	69	20.6	95	sse.			3		4	ssw.				3	ssw.	d. clouds.
H. M. S. Himalaya, N. 12° 53′, E. 46° 14′	30.00	762.0	76	24.4	85	ese.			2–3		0							blue sky.
H. M. S. Iron Duke, N. 31° 46′, E. 31° 50′	29.98	761.5	62	16.7	88	wsw.			5–6		7	w.				5	wsw.	squally.
H. M. S. Kingfisher, Callao Bay, Peru	29.96	761.0	68	20.0		calm			0		10							foggy.
H. M. S. Lark, S. 34° 50′, E. 174° 49′	30.28	769.1	70.3	21.3	87	calm			0		3					sm'h		d. clouds.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.27	768.8	37.3	2.9	71	calm			0		10							d. clouds.
H. M. S. Monarch, Port Said, Egypt	29.99	761.7	60	15.6	70	sw.			3–4		1							blue sky.
H. M. S. Mutine, N. 21° 00′, W. 154° 30′	30.04	763.0	71.5	21.9		ese.			5		3							d. clouds.
H. M. S. Rocket, Valdivia, Chili	29.94	760.5	56	13.3	?	ne.			1		1					3	e.	foggy.
H. M. S. Serapis, N. 12° 54′, E. 43° 15′	29.92	760.0	79.5	26.4	76	se.			1		0							misty.
H. M. S. Superb N. 35° 48′, E. 17° 18′ *	30.31	769.9	56	13.3	62	nw.			4–6		4	wnw.				1	se.	misty.
H. M. S. Swiftsure, S. 4° 05′, W. 83° 05′	29.97	761.2	67	19.4	94	ssw.			3		4					5	nw.	squally.
H. M. S. Sylvia, Tuesday Bay, Patagonia	29.64	752.8	49	9.4	54	w.			3		10					3	s.	d. clouds.
H. M. S. Tourmaline, Bombay, India	29.88	758.9				nnw.			2		0							showery.
H. M. Tyne, N. 8° 45′, W. 13° 58′	29.98	761.5	78	25.6	57	ese.			3–4		0							blue sky.
Portuguese Naval.																2	ese.	misty.
Tamega, Macao, China	29.91	759.6	63.5	17.5	85	e.			3		10			8 h'r	8 h'r			drizzling.
United States Naval.																		
Navy Yard, Pensacola, Fla*	30.12	765.0	64	17.8	89	ne.	3	1.3			10		ne.	0	0			foggy.
Navy Yard, Portsmouth, N. H*	30.00	762.0	32	0.0	100	e.	2	0.9			10		se.	0.05	1.3			raining.
Naval Hospital, Yokohama, Japan*	29.87	758.7	35.5	1.9	48	calm			0		0			0	0			clear.
Adams, Sitka, Alaska†	29.57	751.1	36	2.2	80	e.			1		10							cloudy.
Alaska, Mare Island, Cal	30 35	770.9	44	6.7	92	calm			0		0			0	0			foggy.
Alliance, Aspinwall, U. S. C	29.92	760.0	79	26.1	86	n.			1–2		8			0	0	sm'h		cloudy.
Brooklyn, S. 48° 48′, W 65° 30′*	29.57	751.1	57	13.9	87	wnw.	8	3.6			2		wnw.	0	0	sm'h		fair.
Colorado, New York, N. Y	30.11	764.8	36	2.2	100	sw.	2	0.9			10		calm	0.34	8.6			foggy.
Enterprise, N. 26° 58′, W. 32° 19′*	30.31	769.9	72	22.2	75	ese.			3		2		calm			sm'h		clear.
Essex, Callao, Peru	29.95	760.7	68	20.0	90	se.			1		8		se.					fair.
Franklin, Norfolk, Va	30.00	762.0	52	11.1	93	calm	0	0			10			0.02	0.5			foggy.
Galena, Montevideo, Uruguay*	30.26	768.6	62	16.7	66	calm			0		2					sm'h		clear.
Hartford, Callao, Peru*	29.93	760.2	68	20.0	94	se.			0–1							sm'h	s.	foggy.
Independence, Mare Island, Cal	30.40	772.1	43	6.1	91	calm			0		10			0	0			cloudy.
Iroquois, S. 12° 03′, W. 77° 31′	29.98	761.5	67	19.4	100	sse.			1		10					sm'h		overcast.
Jamestown, N. 31° 40′, W. 55° 01′	30.32	770.1	65	18.3	68	e.			3		5		e.			sm'h		fair.
Juniata, Malta, Mediterranean*	30.39	771.9	59	15.0	76	wnw.			6		5		nw.	0	0			fair.
Kearsarge, Curacoa, Island, W. I	30.04	763.0	78	25.6	90	ese.			2		5		ese.					fair.
Lackawanna, Honolulu, Sandwhich. Islands*	30.02	762.5	70	21.1	79	ne.			1		8		n.					cloudy.
Lancaster, Villefranche, France	30.13	765.3	65	18.3	59	se.			1		0							clear.
Michigan, Erie, Pennsylvania	30.48	774.2	35	1.7	90	ene.			2		10							cloudy.
Minnesota, New York, N. Y	30.09	764.3	35	1.7	100	s.	1	0.4			10							foggy.
Monocacy, Nagasaki, Japan	30.14	765.5	48	8.9	62	ene.			2		10							cloudy.
New Hampshire, Newport, R. I			38	3.3	90	calm			0		10					sm'h		raining.
Nipsic, Funchal, Madeira	30.51	774.9	65	18.3	68	se.			5		8					mod.	se.	cloudy.
Onward, Callao, Peru*†	30.08	764.0	67	19.4	90	sse.			2		10		n.					cloudy.
Palos, Tientsin, China*	30.31	769.9	22	— 5.6	100	e.			1		10		calm					cloudy.
Pensacola, S. 6° 35′, W. 81° 16′ *	29.84	757.9	70	21.1	90	se.			3		8		se.	0	0	light	se.	foggy.
Portsmouth, N. 29° 53′, W. 58° 38′	30.34	770.6	66	18.9	73	e.			4		2		e.			sm'h	e.	clear.
Powhatan, Boston, Mass	30.02	762.5	36	2.2	90	e.			1		10							raining.
Quinnebaug, Villafranche, France	30.17	766.3	59	15.0	81	ese.			1		0?							cloudy.†
Ranger, N. 29° 41′, W. 115° 38′ *	30.16	766.1	61	16.1	78	nne.			1		0			0	0	long	w.	clear
Richmond, Hong Kong, China*	29.80	756.9	63	17.2	88	e.			3		10		e.	0.16	4.1			raining.
Saratoga, New York, N. Y	30.08	764.0	36	2.2	100	sw.			2		10		sw.	light	light			overcast.
St. Louis, League Island, Pa	30.03	762.7	35	1.7	90	e.	3	1.3			10			0.64	10.3			foggy.
Tennessee, St. Thomas, W. I*	30.08	764.0	76	24.4	100	ne.	7	3.1			10			0.07	1.8			cloudy.
Vandalia, Turks, Island, W. I*	30.13	765.3	76	24.4	81	e.			4		5		e.					fair.
Wabash, Boston, Mass	30.04	763.9	35	1.7	90	calm	0	0			10		sw.	0.14	3.6			cloudy.
Wachusetts, N. 26° 19′ W. 137° 19′	30.34	770.6	64	17.8	67	ene.			3		0					mod	w.	clear.
Wyandotte, Washington, D. C	29.96	761.0	43	6.1	100	ne.			1		10		ne.	0.5	13.			raining.
Yantic, N. 16° 35′ W. 83° 21′	30.10	764.5	77	25.0	95	e.			3		2					long		clear.
Merchant Marine.																		
S. S. Grecian, N. 27° 44′ W. 20° 38′ *	30.42	772.7	67	19.4	89	se.			3		9		sse.	0	0	sm'h		cloudy.
S. S. Scandinavian, N. 42° 20′, W. 70° 05	30.03	762.7	36	2.2		wsw.			2		10		wsw.	½h'r	½h'r	sm'h		raining.
S. S. Indiana, Delaware, Bay			40	4.4	91	s.			3		10		s.					foggy.
S. S. Lord Clive, N. 41° 14′, W. 65° 04′	30.21	767.3				nw.			2		10					sm'h		overcast.
S. S. Lord Gough, N. 48° 52′ W. 39° 57′	29.82	757.4	34	1.1		nw.			6		5		nw.	24 h'r	24 h'r	mod.	nw	squally.
S. S. Ohio, N. 51° 22′, W. 13° 33′			49	9.4	93	s.			4		6		w.			hv'y	w.	rain & snow
S. S. Anchoria, N. 43° 58′, W. 52° 45′†	29.93	760.2	35	1.7	90	nne.			2		10		nne.	10 h'r	10 h'r			dense fog.
S. S. Bolivia, N. 48° 08′ W. 40° 38′	30.10	764.5				w.			1		10		sw.	0	0	sm'h		overcast
S. S. Dorian, N 41° 38′, W. 31° 45′*	29.90	759.4	37	2.8	81	wnw.			9		10		w.	snow	snow			snow & hail
S. S. Utopia, N. 44° 34′, W. 50° 22 †	29.65	753.1	58	14.4		n.			7		10		n.	12 h'r	12 h'r	r'gh	cf'd	threatening.
S. S. Ailsa, N. 18° 13′, W. 78° 15′†	30.34	770.6	33	0.6		n.			3		10		nw.	6 h'r	6 h'r	sm'h		snowing.
S. S. Antillas, N. 32° 20′, W. 73° 15′†	30.10	764.5	87	30.6	88	ne.			2		2		ne.	1 h'r	1 h'r	sm'h	e.	fair.
S. S. Ambrose, Manaos, Brazil†	30.25	768.3	74	23.3		s.			3		5		s.			mod.	s.	
S. S. Landaff City, N. 50° 26′, W. 29° 50′*†	30.00	762.0	79	26.1		calm			0		4			0	0			fine.
S. S. Auckland, S. 32° 30′, W. 20° 21′	29.70	754.4	42	5.6		wnw.			6		5		wnw.	snow	snow	high	wnw.	squally.
S. S. British Merchant, N. 19° 40′, W. 124° 28′	29.97	761.2	77	25.0	73	n.			5		4							blue sky.
S. S. Caldew, S. 33° 23′, E. 28° 35′	30.09	764.3	64.8	18.2	63	ne.			4–5		9							d. clouds.
S. S. City of Agra, S. 22° 29′, W. 29° 12′	30.25	768.3	69.7	20.9	71	s.			3		5							d. clouds.
S. S. Scotia, N. 11° 37′, E. 54° 20′	29.99	761.7	80.5	26.9	76	nne.			5		4							d. clouds.
S. S. Lake Huron, N. 51° 06′, W. 16° 34′	29.95	760.7	80.9	27.2	55	ene.			4		3							blue sky.
S. S. Gallia, Queenstown, Ireland			46	7.8		s.			8		10		wsw.	5 h'r	5 h'r	high	w.	
S. S. Marathon, N. 50° 12′ W. 22° 45′	29.87	758.7	49	9.4	85	sw.			7		10			rain	rain			squally.
S. S. Parthia, N. 42° 59′ W. 48° 19′	29.42	747.3	44	6.7		nne.			4		10		nne.	10 h'r	10 h'r	r'gh	nw.	raining.
S. S. Colima, N. 39° 39′ W. 60° 47′†	30.33	770.4	38	3.3	81	wsw.			3		10		wnw.	o	o	light	wsw.	overcast.
S. S. Canada, N. 45° 14′, W. 49° 30′	30.17	766.3				wsw.			5		7		sw.			mod.	sw.	cloudy.
S. S. Labradore, English Channal*†	30.24	768.1	30.2	— 1.0		nnw.			4	ck	0	nnw.		o	o	sm'h	nw.	covered.
S. S. Wisconsin, N. 44° 55′, W. 51° 45′	30.35	770.9	50	10.0		sw.			6		10		rain	rain	h'vy	sw.		
S. S. Bohemia, Hamburg, Germany*†	29.80	756.9	30	— 1.1		n.			3		1		nw.	6 h'r	6 h'r	sm'h		clearing.
						sw.			8		9		sw.	snow	snow			stormy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																	
S. S. Rugia, N. 43° 12′, W. 54° 50′	30.18	766.6	39	3.9		e.			3		10		e.				sprinkling.
S. S. Silesia, Hamburg, Germany			39.1	3.9		wsw.			7		3?		w.	rain	rain		rainy.
S. S. Vandalia, Hamburg, Germany	29.79	756.7	38.8	3.8		wsw.			7		8		w.				cloudy.
S. S. Wieland, Lizzard Point, Eng						wsw.			5		8		wsw.	o	o	mod.	misty.
S. S. Mentmore, N 39° 31′, W. 64° 21′*	30.18	766.6				wsw.			6		8		sw.	o	o	mod.	dull.
S. S. Hevelius, S. 19° —′, W. 37° 30′†	30.04	763.0	79	26.1		ssw.			9		10?		sse.	5 h'r	5 h'r	high	clear?
S. S. Virginian, N. 42° 46′, W. 62° 50′*	30.04	763.0	36	2.2		w.			2		10		w.	snow	snow	light	foggy.
S. S. Colorado, N. 24° 51′, W. 80° 22′ †	30.12	765.0	74	23.3		se.			3		2		se.	hv'y	hv'y	mod.	se. clear.
S. S. Rio Grande, N. 30° 19′, W. 76° 21′†	30.19	766.8	74	23.3		s.			3		10		se.	o	o	long	se. overcast.
S. S. San Marcos, N. 28° 40′, W. 92° 15	29.97	761.2	65	18.3		wsw.			1		8		w.	o	o	sm'h	hazy.
S. S. Archimede, Palermo, Sicily †	30.37	771.4	58	14.4	64	wnw.			3		2		wnw.	o	o		clear.
S. S. Alleghany, Baltimore, Md			42	5.6		calm			0		0			rain	rain		
S. S. Dominion, N. 45° 30′, W. 57° 54′*†	30.12	765.0	31	—0.6		se.			3		8		s.	snow	snow	sm'h	se. overcast.
S. S. Chalmette, Algiers, La †	30.03	762.7	65	18.3		sw.			1					o	o		foggy.
S. S. Lone Star, N. 40° 10′, W. 73° 55′ †	29.93	760.2	40	4.4		calm			0					o	o	sm'h	dense fog.
S. S. Denmark, London, Eng †	30.05	763.3	46	7.8		sw.			9		8		sw.	sq 'lls	sq 'lls		cloudy.
S. S. Egypt, N. 43° 24′, W. 57° 25′*†	30.10	764.5				wsw.			1		10		wsw.	4 h'r	4 h'r	sm'h	wsw. cloudy.
S. S. Erin, N. 50° 55′, W. 19° 34′	29.26	743.2	47	8.3		ssw.			7		7		w.	8 h'r	8 h'r	r'gh	wsw. squally.
S. S. Greece, N. 40° 51°, W. 62° 17′	29.98	761.5	52	11.1		ne.			4		8		wsw.	o	o	sli't	wsw. cloudy.
S. S. Helvetia, Liverpool, Eng			41	5.0		wnw.			4		5		w.	7 h'r	7 h'r		fine.
S. S. Holland, N. 41° 03′, W. 65° 50′	30.02	762.5	36	2.2		wsw.			2		10		wsw.			sm'h	w. dense fog.
S. S. City of Alexandria, N. 28° 37′, W. 78° 54′			75	23.9	86	s.			4		9		se.	3 h'r	3 h'r	r'gh	s. rainy.
S. S. City of Merida, N. 25° 07′, W. 80° 02′ †	30.21	767.3	80.6	27.0		se.			3		5		se.	1 h'r	1 h'r	light	se. fine.
S. S. Braunschweig, S. 18° 20′, W. 38° 30′	29.86	758.4	75.0	23.9	90	s.			6		10		s.	10 h'r	10 h'r	long	s. rainy
S. S. Gen. Werder, N 49° 14′, W. 24° 50′	29.47	748.5				nnw.			6		10		nw.	9 h'r	9 h'r	r'gh	var. drizzling
S. S. Hermann, N. 49° 56′, W. 4° 34′	30.20	767.1	50	10.0		w.			5		4?		w.	o	o	5	w. cloudy*
S. S. Hohenzollern, N. 15° 16′, W. 25° 35′	30.13	765.3				ene.			5		0					mod.	ene. fair.
S. S. Neckar, N. 49° 03′, W. 20° 28′	29.42	747.3				ssw.			9		10		ssw.	8 h'r	8 h'r	h'vy	ssw. cloudy.
S. S. Salier, N. 42° 16′, W. 62° 05′	30.07	763.8	39	3.9		w.			2		10		w.	snow	snow	mod.	wnw. light rain.
S. S. Arabic, N. 35° 51′, W 170° 34′*†	30.05	763.3	48	8.9	70	n.			5		2		nw.	shr's	shr's	sm'h	clear.
S. S. Belgic, N. 24° 32′, E. 119° 17′ *†	29.83	757.7	61	16.1	82	ne.			3		10		ne.	o	o	mod.	ne. cloudy.
S. S. Coptic, Alcatraz Island, Cal.	30.35	770.9	48.5	9.2	?	var.			3		7		sw.	o	o		d. clouds.
S. S. Gaelic, N. 22° 56′, E 116° 33′	29.84	757.9	59	15.0	100	ene.			4		10		e.	o	o	sm'h	cloudy.
S. S. Oceanic, San Francisco, Cal †	30.46	773.7	55	12.8	87	se.			1								foggy.
S. S. City of Augusta, New York, N. Y†						sse.			4		6?			o	o		clear.?
S. S. Mississippi, Portland, Oregon *†	30.19	766.8	51	10.6		sse.			3		10		s.				misty.
S. S. Oregon, off Fort Stevens, Oregon †	30.08	764.0	49	9.4	93	s.			4		10						squally.
S. S. Ancon, N. 32° 41′, W. 117° 17′†	30.23	767.8	53	11.7	54	ese.			3		0					sm'h	clear
S. S. City of Chester, Point Arenas, Cal*†	30.39	771.9	39	3.9	100	se.			4		10					mod.	sw foggy.
S. S. G. W. Elder, Seattle, Wash. Ter †	30.18	766.6	45	7.2	84	se.			1		4?			3 h'r	3 h'r		cloudy.?
S. S. Queen of the Pacific, Portland, Oregon†	30.19	766.8				sse.					8						cloudy.
S. S. State of California, N. 30° 40′, W. 124° 30′†	30.43	772.9	47	8.3	85	se.			4		10		s.			short	se. raining.
S. S. Victoria, San Francisco, Cal*†	30.33	770.4	46	7.8		se.			3		2		ese.				foggy.
S. S. Australia, —. 0° 00′, W. 167° 13′ *†	29.65	753.1	77	25.0	86	e.			5		3		e.	1 h'r	1 h'r	mod	e. clear.
S. S. City of Pekin, N. 29° 25′, E. 156° 14′ †	29.96	761.0	66	18.9	64	wnw.			3		10		wnw.			mod.	nnw. cloudy.
S. S. City of Rio de Janeiro, San Jose, Guatemala †.	30.18	766.6	72	22.2	90	n.			1		8		ne.	o	o	light	sw. cloudy.
S. S. City of Sydney, Sydney, N. S. W†	30.05	763.3	67	19.4	74	sw.			3		5		sw.			sm'h	drizzling.
S. S. City of Tokei, N. 32° 56′, E. 151° 13′†	29.94	760.5	55	12.8	93	n.			2		5		nne.	o	o	h'vy	nw. clear.
S. S. Colon, N. 19° 55′, W. 74° 00′ †	30.08	764.0	78	25.6		e.			2				ene.	o	o	sm'h	clear.
S. S. Grenada, Panama Panama†	29.90	759.4	75	23.9	86	nw.			2		0			o	o		clear.
S. S. San José, N. 28° 02′ W. 115° 30′*†	30.23	767.8				nw.			3	5?	0		nnw.	o	o	h'vy	wnw. clear.?
S. S. Zealandia, S. 34° 50′, E. 172° 03′*	30.24	768.1	70	21.1	90	e.			3		5		n.				squally.
S. S. Claudius, Colon, U. S. C.†	30.05	763.3	79.0	26.1	86	nne.			1		3		nne.	o	o	long	n. fair.
S. S. Valencia, Curacoa, W. I†	30.09	764.3	79	26.1	78	ne.			4		2		ne.	o	o		fair.
S. S. Belgenland, N. 40° 30′, W. 71° 30′ †	30.09	764.3	44	6.7	92	ssw.			4		10			4 h'r	4 h'r	sm'h	foggy.
S. S. Pennland, N. 40° 35′, W. 68° 43′	30.12	765.0	42	5.6	91	ese.			1		10			o	o		dense fog.
S. S. Rhynland, N. 49° 40′, W. 25° 00′	29.44	747.8	49	9.4	93	nne.			6		10		wsw.			long	nw. rainy.
S. S. Switzerland, N. 49° 27′, W. 34° 36′†	29.68	753.9				w.			6		10		w.	hail	hail	h'vy	wsw. hailing.
S. S. Wuesland, N. 51° 10′, E. 1° 45′	30.22	767.6	46	7.8		w.			6		3		w.	0.04	1.0	r'gh	w. clear.
S. S. Leerdam, N. 46° 14′, W. 44° 18′*	30.00	762.0	44	6.7	68	w.			6		7		wsw.	o	o	r'gh	w. cloudy.
S. S. Maas, Rotterdam, Holland	30.16	766.1	41.5	5.3		sw.			6		6		ne.	1⅛h'r	1⅛h'r		fair.
S. S. Schiedam, N. 44° 00′, W. 53° 14′	30.13	765.3	50.9	10.5	86	ene.			4		9		var.	snow	snow	sm'h	hazy.
S. S. W. A. Scholten, N. 49° 40′, W. 12° 00′	29.92	760.0	52.2	11.2	100	ssw.			7		10		sw.	4 h'r	4 h'r	cross	var. rainy.
S. S. Zaandam, N. 49° 40′, W. 28° 44′	29.59	751.6	57	13.9		nw.			5–6		5 n		w.	12 h'r	12 h'r	6	w.
S. S. State of Florida, N. 42° 28′, W. 56° 34′			46	7.8		e.			1		10			sleet	sleet	sm'h	overcast.
S. S. State of Georgia, N. 48° 53′, W. 40° 01′†	29.85	758.2	33	0.6		wnw.			8–9		8		wnw.	hail	hail	r'gh	wnw. squally.
S. S. State of Indiana. Irish Channel†.	29.64	752.8				sw.			6		8		w.	8 h'r	8 h'r		threatening
S. S. Iowa, off Barrels Light, Ireland*†	30.00	763.5	49	9.4		sw.			6		9		sw.	o	o	mod.	ssw. misty
S. S. Britannic, N. 51° 24′, W. 17° 14′†	29.47	748.5	41	5.0	91	sw.			7		10		sw.	2 h'r	2 h'r	con.	var. fair.
S. S. Germanic, N. 51° 12′, W. 12° 49′†	29.78	756.4	51	10.6		sse.			6		10		ssw.	sh'rs	sh'rs	mod.	sw. raining.
S. S. Republic, N. 41° 20′, W. 60° 06′ †	30.18	766.6	57	13.9	94	nw.			3		9		w.	1 h'r	1 h'r		sm'h d. clouds.
S. S. Marengo, N. 44° 59′, W. 47° 30′*	30.10	764.5				w.			4		10		w.	24 h'r	24 h'r	sm'h	w. snowy.
S. S. Otranto, N. 46° 54′, W. 52° 48′			28	—2.2		sw.			2		5?		sw.			h'vy	sw. clear.?
S. S. Salerno, N. 45° 58′, W. 38° 04′	30.11	764.8	40	4.4		nw.			6		8		nw.	o	o	mod.	nw. cloudy.
S. S. Aries, N. 41° 00′, W. 71° 55′*†	29.90	759.4				ssw.			4		10		sw.			light	s. raining.
S. S. Catherine Whiting, Fire Island, N. Y†	30.11	764.8				wsw.			1					o	o	sm'h	ssw.
S. S. Norman, N. 42° 23′, W. 71° 05′†	29.96	761.0				ne.			1				ne.	8 h'r	8 h'r		cloudy.
S. S. Saxon, N. 41° 20′, W. 71° 00′ †	30.03	762.7	37	2.8		wsw.			2		10			o	o		threatening.
MISCELLANEOUS.																	
Bg. Abbie Clifford. Havana, Cuba, W. I †	30.09	764.3	68	20.0		calm			0		fg.			sh'rs	sh'rs		
Schr. Abbie H. Gheen, Spring Wood Mills, S. C†	30.06	763.5	60	15.6		sw.			4					o	o		foggy.
Bk. Alcira, N. 15° 36′, W 68° 23′	30.05	763.3				ene.			5		6?		ne.	2 h'r	2 h'r	mod.	ne. clear?
Bk. Alpha, Demerara, British Guiana, S. A*†	29.96	761.0	80	26.7		ene.			4		2			o	o		fair.
Schr. Anna A. Holton, Tampico Mexico†	30.05	763.3	76	24.4		ene.			4		5		ne.	o	o	sm'h	fair.
Bg. Annie R. Storer, S. 23° 18′, W. 36° 12′*	30.09	764.3				s.			6		10		s.	6 h'r	6 h'r	r'gh	ssw. drizzling
Bk. Anna Thormann, S. 7° 53′, W. 17° 01′	30.04	763.0	79.3	26.3	76	ne.			3		2 k		ene.	o	o	light	se. clear.
S. S. Antonio Lopez, Cadiz, Spain	30.52	775.2	56	13.3	75	n.			1		0			o	o		clear.
Bg. Arthur, S. 29° 10′, W. 48° 56′ *†	30.30	769.6				sse.			3		2		sse.	o	o	mod.	s.
Schr. A. R. Lewis, N. 16° 49′, W. 59° 51′†	30.15	765.8	78	25.6		ne.			1		10		ene.	2 h'r	2 h'r	mod.	ene. showery
Bk. B. F. Watson, Hong Kong, China†	29.89	759.2	64	17.8		ne.			3		0			6 h'r	6 h'r		misty.
Bg. Belle of the Bay, Galveston, Texas †	30.06	763.5				nw.			0		5?		n.	o	o		clear?
Blt. Bonny Doon, N. 25° 38′, W. 40° 38′*†	30.16	766.1				se.			1		2		se.	o	o	mod.	nw. clear.
Bk. Bremen, N. 22° 51′, W. 43° 48′ *	30.17	766.3				ese.			3		2		ese.	o	o	light	var. clear.
Bk. Champion, Philadelphia, Pa			46	7.8		sw.			3		10		w.	4 h'r	4 h'r		rain & fog.
Bk. Commerce, Cadiz, Spain †	30.45	773.4	58	14.4		n.			1		0			o	o		fine.
S. Cornelius, N. 54° 47′, E. 4° 17′ *†	29.98	761.5	43.2	6.2		w.			5		0			4 h'r	4 h'r	h'vy	wsw. fair.
Bkt. C. S. Bushnell, N. 36° 40′, W. 56° 42′						w.			3		1		w.	o	o	sm'h	e. fine.
S. S. D. J. Foley, N. 16° 16′, W. 75° 39′ *†	30.00	762.0	80	26.7	82	ene.			0		9		ne.	o	o	sm'h	ene. fair.
S. S. E. B. Sutton, N. 12° 30′, W. 32° 45′ †	30.13	765.3	74	23.3	81	e.			4		3		e.	o	o	mod.	e. fair.
Bk. E. D. Bigelow, N. 43° 09′, W. 30° 08′*†	29.75	755.0				n.			8		8		nne.	o	o	cross	nne. squally.
Schr. Edith R. Seward, N. 25° 05′, W 69° 15′†	30.28	769.1	70	21.4		e.			3		3		ese.	½ h'r	½ h'r	mod.	ese. clear.
Bk. Edmund Phinney, S. 33° 34′, W. 49° 12′ †	30.30	769.6	70	21.1		se.			2		8			o	o	rg'h	s. cloudy.
S. E. J. Spicer, N. 48° 59′, W 18° 40′	29.45	748.0	54	12.2	100	wsw.			7		10		nw.	8 h'r	8 h'r	high	nw. heavy rain.
Bk. E. L. Pettingill, S. 56° 41′, W. 67° 34′*†	29.50	749.3	49	9.4		s.			4		8		sw.	18 h'r	18 h'r	mod.	sw. cloudy

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Bk. Essex, S. 18° 36′, E. 41° 47′ *†.....	29.70	754.4	78	25.6	.....	se.	.....	.....	8	.....	.....	.....	.....	.....	.....	h'vy	s.	
Schr. F. E. McDonald, Jacksonville, Fla †.....	30.08	764.0	.....	.....	.....	.....	.....	.....	1	.....	10	.....	.....	0	0	.....	.....	fine.
S. Festina Lente, N. 54° 56′, E. 4° 42′.....	29.77	756.1	41	5.0	.....	w.	.....	.....	6	.....	1	.....	w.	sleet	sleet	mod.	wsw.	clear.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†.....	30.04	763.0	43	6.1	83	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. Foscolia, N. 51° 27′, W. 0° 44′.....	.....	.....	.....	.....	.....	wsw	.....	.....	7	.....	1	.....	wsw.	0	0	.....	.....	clear.
Bk. Freya, Matanzas, Cuba, W. I.....	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	1	.....	ne.	1 h'r	1 h'r	.....	.....	hazy.
S. George Stetson, S. 31° —′, W. 49° —′ *†.....	30.22	767.6	72	22.2	62	ese.	.....	.....	3	.....	5?	.....	se.	0	0	chop	ne.	clear.?
S. Grecian, N. 19° 20′, W. 38° 25′†.....	30.22	767.6	75	23.9	72	ese.	.....	.....	5	.....	5?	.....	e.	0	0	sm'h	e.	clear.?
Bk. Grey Eagle, S. 6° 14′, W. 34° 37′*†.....	29.90	759.4	.....	.....	.....	ene.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Gronsvaer, Auckland, N. Z.....	30.28	769.1	73.3	22.9	.....	ne.	.....	.....	4	.....	2	.....	ne.	0	0	.....	.....	clear.
Bk Hattie G. McFarland, N. 12° 26′, W. 63° 21′ *†.....	30.17	766.3	78	25.6	.....	ene.	.....	.....	4	.....	3	.....	e.	0	0	short	ne.	clear.
Schr. Hattie Weston, Cedros, W. I*†.....	30.07	763.8	78	25.6	.....	ene.	.....	.....	1	.....	1	.....	e.	0	0	mod.	n.	clear.
Bk. Heinrich & Tonio, N. 29° 37′, W. 43° 28′.....	.....	.....	70	21.1	.....	nnw.	.....	.....	4	.....	2	.....	n.	3 h'r	3 h'r	.....	.....	clear.
Bk. Horace Scudder, N. 32° 05′, W. 67° 30′ *†.....	30.30	769.6	66	18.9	.....	se.	.....	.....	4	.....	7	.....	se.	.....	.....	light	sw.	cloudy.
Schr. Isabel Alberto, New York, N. Y †.....	30.08	764.0	.....	.....	.....	sw.	.....	.....	1	.....	10	.....	.....	rain	rain	.....	.....	foggy.
Schr. James Slater, N. 10° 56′, W. 45° 14*†.....	30.03	762.7	79	26.1	.....	e.	.....	.....	3	.....	5	.....	ese.	1 h'r	1 h'r	mod.	ene.	squally.
Bk. Johanne, N. 18° 47′, W. 48° 47′ *†.....	30.09	764.3	78	25.6	.....	ene.	.....	.....	3	.....	5	.....	var.	2 h'r	2 h'r	sm'h	e.	fine.
Schr. John L. Thomas, N. 15° 35′, W. 81° 36′ *†.....	30.10	764.5	.....	.....	.....	e.	.....	.....	3	.....	1	.....	e.	0	0	light	e.	clear.
Bkt. Josephine, S. 35° 42′, W. 10° 45′†	30.15	765.8	76	24.4	68	ne.	.....	.....	4	.....	0	.....	.....	0	0	long	nw.	clear.
S. S. J. W. Wilson, Galveston, Texas *†.....	30.05	763.3	54	12.2	.....	nw.	.....	.....	5	.....	.....	.....	nw.	4 h'r	4 h'r	.....	.....	fair.
Light House Tender Laurel, Key West, Fla†.....	30.09	764.3	72	22.2	.....	sse.	.....	.....	1	.....	8	.....	sse.	2½h'r	2½h'r	.....	.....	sprinkling.
Bg. Lilian, N. 30° 10′, W. 72° 53′†.....	30.32	770.1	71	21.7	.....	se.	.....	.....	4	.....	2	.....	se.	0	0	long	se.	clear.
Bk. Louise Adelaide, Matanzas, Cuba, W. I...	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	2	.....	se.	0	0	long	se.	clear.
Bg. L. & W. Armstrong, N. 38° 51′, W. 70° 51′*†.....	30.14	765.5	.....	.....	.....	wsw.	.....	.....	4	.....	10	.....	.....	0	0	sm'h	.....	fine.
S. S. Malabar, N. 35° 31′, W. 59° 01′ *†.....	30.35	770.9	.....	.....	.....	w.	.....	.....	1	.....	2	.....	w.	0	0	mod	sw.	misty.
Bk. Mary A. Troop, N. 49° 00′, W. 13° 00′*†.....	29.80	756.9	.....	.....	.....	sw.	.....	.....	10	.....	10	.....	w.	2 h'r	2 h'r	mod.	nw.	cloudy.
Bk. Matilda C. Smith, N. 43° 35′, W. 35° 36′ †.....	30.06	763.5	.....	.....	.....	n.	.....	.....	8	.....	7	.....	nw.	12 h'r	12 h'r	cross	var.	drizzling
Schr. Minnie A. Bonsall, Mayport, Fla †.....	30.15	765.8	64	17.8	.....	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	rg'h	nnw.	cloudy.
S. M. P. Grace; S. 10° 40′, W. 29° 57′ *.....	29.88	758.9	78	25.6	.....	e to n.	.....	.....	2	.....	7	.....	n.	slight	slight	long	nne.	squally.
Bg. Myrtle, N. 14° 12′, W. 60° 43′ *†.....	29.95	760.7	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	long	ne.	clear.
Bkt. Norena, Matanzas, Cuba, W. I*†.....	30.19	766.8	.....	.....	.....	wsw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	fine.
Schr. Ocean Traveler, N. 17° 02′, W. 61° 00′ †.....	30.08	764.0	.....	.....	.....	ene.	.....	.....	4	.....	5	.....	.....	.....	.....	mod.	e.	squally.
Bk. Ottawa, Alicante Harbor, Spain*.....	30.45	773.4	66	18.9	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. Paramita, San Francisco, Cal†.....	30.43	772.9	45	7.2	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	.....	clear.
Schr. Pearl Nelson, N. 16° 44′, W. 67° 03′*†.....	30.04	763.0	.....	.....	.....	ene.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
S. S. Raleigh, Matanzas, Cuba, W. I*†.....	30.04	763.0	72	22.2	.....	se.	.....	.....	2	.....	3	.....	se.	0	0	light	se.	fair.
Bk. Reindeer, Martinique, W. I *.....	30.15	765.8	.....	.....	.....	ene.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	squally.
S. Rudolph, N. 43° 01′, W. 27° 56′*.....	29.42	747.3	53.6	12.0	.....	ssw.	.....	.....	9	.....	10	.....	ssw.	15 h'r	15 h'r	h'vy	var.	rainy.
S. Sacramento, S. 35° 28′, W. 24° 16′ *†.....	29.93	760.2	69	20.6	90	ssw.	.....	.....	6	.....	10	.....	sw.	2 h'r	2 h'r	mod.	sw.	squally.
Bk. Saga, N. 38° 18′, W. 60° 25′.....	.....	.....	67	19.4	.....	sw.	.....	.....	4	.....	7	.....	sw.	½h'r	½h'r	4	var.	cloudy.
Schr. S. B. Hubbard, Mayport, Fla *†.....	30.28	769.1	68	20.0	.....	calm	.....	.....	0	.....	10	.....	.....	12 h'r	12 h'r	.....	.....	threatening.
Bk. Southern Belle, N. 30° 08′, W. 70° 50′*†.....	30.25	768.3	68	20.0	.....	sse.	.....	.....	3	.....	2	.....	se.	0	0	sm'h	.....	clear.
S. Sovereinn of the Seas, S. 25° 23′, W. 125° 48′ *†.....	30.26	768.6	75	23.9	90	e.	.....	.....	5	.....	1	.....	e.	2 h'r	2 h'r	rg'h	ese.	clear.
Bk. Sunbeam, Lisbon, Portugal*†.....	30.45	773.4	58	14.4	88	ne.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
S. Titan, N. 2° 14′, W. 29° 12′ *†.....	30.00	762.0	79	26.1	91	se.	.....	.....	1	.....	9	.....	se.	12 h'r	12 h'r	sm'h	ne.	cloudy.
Bk. Wandering Jew, Montevideo, Uruguay †.....	30.34	770.6	63	17.2	.....	n.	.....	.....	4	.....	3	.....	n.	0	0	.....	.....	clear.
Schr. Wm. Wiler, N. 16° 42′, W. 60° 45′†.....	30.01	762.2	.....	.....	.....	ene.	.....	.....	1	.....	5	.....	ene.	5 h'r	5 h'r	rg'h	e.	squally.
Bk. Xenia, N. 2° 07′ W. 28° 08′*†.....	30.03	762.7	80	26.7	.....	calm	.....	.....	0	.....	8	.....	se.	14 h'r	14 h'r	sm'h	se.	cloudy.

International Chart I. January 28, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B.Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 29, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.52	775 3	61.5	16.4	77	s.	.....	.....	1	.....	2	.....	.....	0	0	fair	Malaterre.
Algiers	.....	.....	30.53	775.5	58.6	14.8	81	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	Thève.
La Calle	.....	.....	30.48	774.3	60.1	15.6	85	wnw.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair	Fonfréde.
Tunis	.....	.....	30.56	776.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.60	777.3	64.0	17.8	63	e.	.....	.....	3	.....	2	.....	.....	0	0	fair	Pérès.
Tebessa	.....	.....	30.53	775.5	51.4	10.8	68	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dognon.
Geriville	.....	.....	.....	.....	65.1	18.4	26	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	Louchamp.
Laghouat	.....	.....	30.59	776.9	59.0	15.0	47	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.57	776.4	70.2	21.2	25	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.63	752.6	29.72	754.9	72.0	22.2	78	sse.	1	0.4	.....	.....	1	.....	.....	0	0	very fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.83	757.7	30.41	772.5	36.3	2.4	58	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	29.32	744.6	30.11	764.7	39.0	4.2	84	s.	6.9	3.1	.....	.....	0	.....	.....	0.024	0.6	.....	Dr. Wierzbiski.
Eperies	29.25	743.0	30.18	766.5	34.2	1.2	75	s.	.....	.....	2	cs	4 s	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.00	736.6	30.30	769.6	39.0	3.9	71	s.	.....	.....	1	.....	9	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.75	730.3	30.25	768.3	36.3	2.3	68	se.	.....	.....	1	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.82	732.1	30.22	767.5	38.7	3.7	75	wsw.	.....	.....	1	.....	10	.....	.....	0.079	2.0	gloomy	The Staff.
Lemberg	29.10	739.1	30.13	765.3	35.4	1.9	78	w.	.....	.....	3	.....	10	.....	.....	0.035	0.9	.....	Dr. T. Stanecki.
Neu Schmecks	26.67	677.3	30.09	764.2	42.1	5.6	75	sw.	.....	.....	3	.....	1	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.29	769 3	30.40	772.3	47.3	8.5	74	e	.....	.....	1	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.75	755 6	30.21	767.3	34.5	1.4	74	sw.	.....	.....	3	.....	6	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	30.02	762.4	30.31	769.9	37.8	3.2	65	w.	.....	.....	2	.....	3	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.32	770 2	30.42	772.7	45.9	7.7	53	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Royal Academy.
Vienna	29.50	749.4	30.25	768.3	41.0	5.0	64	sw.	.....	.....	1	.....	10	.....	.....	0.055	1.4	raining	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.00	736.6	29.10	739.1	40.7	4.8	60	sw.	20	8.9	.....	.....	2	.....	.....	0	0	blue sky	W. Boswell
Armagh, Observatory	29.13	739.9	29.36	745.7	40.3	4.6	80	sw.	17	7.6	.....	.....	3	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.41	747.0	43.0	6.1	82	w.	22	9.8	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	28.86	733.0	29.39	746.5	41.9	5.5	85	w.	12	5.4	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth.
Bradford, Yorkshire	28.94	735.1	29.34	745.2	43.7	6.5	83	w.	.....	.....	3	.....	10	.....	.....	0.09	2.3	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	74.0	23.3	95	ne.	.....	.....	1	.....	9	.....	.....	.....	.....	raining	Corpl. J. Surgenor, A. H. C.
Cardington	.....	.....	.....	.....	54.0	12.2	86	sw.	.....	.....	9.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.42	747.3	29.55	750.6	50.5	10.3	91	sw.	.....	.....	5	.....	10	.....	.....	.....	.....	drizzling	Corpl. G. A. Pickles.
Falmouth, Observatory	29.33	745.0	29.50	750.8	48.5	9.2	95	wnw.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	The Staff.
Fort Napier, Natal	27.74	704.6	29.96	761.0	68.2	20.1	68	e.	.....	.....	1	.....	8	.....	.....	.....	.....	overcast	Corpl. F. Milner, A. H. C.
Galway	29.35	745.5	29.39	746.5	42	5.6	75	wsw.	.....	.....	2	.....	6	.....	.....	0.40	10.2	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.32	770.1	30.38	771.6	58.5	14.7	69	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	d. clouds	Sgt. J. Norris, A. H. C.
Glasgow, Observatory	29.03	737.3	29.24	742.7	40.4	4.7	67	w.	.....	.....	5	4 c	0	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.34	745.2	29.51	749.5	50.5	10.3	94	sw.	.....	.....	7	.....	10	.....	.....	.....	.....	raining	The Staff.
Guernsey	29.44	747.8	29.74	755.4	50.5	10.3	95	ssw.	.....	.....	5	.....	10	.....	.....	.....	.....	overcast	A. Collenetté, F. M. S
Kew, Observatory	29.48	748.8	29.51	749.5	52.0	11.1	87	sw.	40	17.9	.....	.....	10	.....	.....	.....	.....	overcast	The Staff.
Leicester, Museum	29.10	740.7	29.41	747.0	43.5	6.4	90	nw.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	J. C. Smith.
Malta, Mediterranean	30.22	767 6	30.30	769.6	60.0	15.6	76	n.	.....	.....	2	.....	7	.....	.....	0.04	1.0	d. clouds	Corpl. Keene, A. H. C
Nassau, Bahamas	30.13	765.3	30.17	766.3	73.0	22.8	91	se.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.92	734.6	29.35	745.5	40.2	4.6	93	wsw.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	Rev. Jas. W. Browne
Oxford, Radcliffe Obs'y	29.20	741.7	29.43	747.5	52.8	11.6	91	ssw.	.....	.....	8	.....	10	.....	.....	.....	.....	showery	The Staff.
Plymouth	29.40	748.3	29.53	750.0	50.2	10.1	96	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	John Merrifield.
Sandwick Manse, Orkneys	28.87	733.3	28.98	736.1	36	2.2	89	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	snowy	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.07	763.8	30.14	765.5	41.2	5.1	54	nw.	.....	.....	2	.....	7	.....	.....	blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.11	739.4	29.39	746.5	44.0	6.7	79	sw.	.....	.....	2	.....	10	.....	.....	0.17	4.3	overcast	W. F. Cooper.
Silloth Rectory	29.29	744.0	29.32	744.7	41.0	5.0	95	w.	.....	.....	5	.....	10	.....	.....	0.090	2.3	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.38	746.2	41.9	5.5	73.	w.	18	8.0	.....	.....	10	.....	.....	blank	blank	overcast	Rev. S. J. Perry.
Stratfield Turgiss	29.32	744 7	29.53	750.0	51.7	10.9	93	w.	.....	.....	3	.....	10	.....	.....	.....	.....	raining	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	29.53	750.0	29.58	751.3	54	12.2	87	sw.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.47	748.5	29.50	749.3	45.6	7.6	65	w.	20	11.6	.....	.....	8	.....	.....	blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	— 2	—18.9	.....	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.92	760.0	29.97	761.2	17	— 8.3	100	w.	6	2.7	.....	.....	10 n	.....	w.	0	0	cloudy	H. J. Cundall, C. E
Chatham, N. B*	29.97	761.2	30.03	762.7	6	—14.4	91	nw.	1	0.4	.....	2 cs	8 ks	nw.	nw.	0	0	cloudy	G. A. Blair.
Cornwall	29.82	757.4	30.02	762.5	20.4	— 6.4	97	e.	.....	.....	1	.....	10 s	.....	.....	0	0	overcast	Jas. Smith, M. A.
Dalhousie	29.99	761 7	30.05	763.3	— 1.0	—18.3	.....	calm	.....	.....	0	0	0	.....	.....	0	0	clear	H. A. Johnson.
Father Point, Quebec*	29.98	761.5	30.01	762.2	10	—12.2	91	s.	3	1.3	.....	5 ck	5 s	nw.	w.	0.03	0.8	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.84	732.5	29.75	755.6	3	—16.1	100	s.	23	10.3	.....	.....	10 ks	.....	s.	0	0	cloudy	James Stewart.
Fredericton	29.98	761.5	30.05	763.3	19.0	— 7.2	92	calm	0	0	.....	.....	10 s	.....	.....	0	0	overcast	Prof. Harrison, L. L. D.
Granton	28.85	732.8	30.02	762.5	22.3	— 5.4	96	s.	5	2.2	.....	.....	10 n	.....	.....	0	0	overcast	Jas. Grant.
Halifax, N. S*	29.78	756.4	29.92	760.0	24	— 4.4	92	n.	7	3.1	.....	.....	10 n	.....	.....	0.290	7.4	cloudy	A. Allison.
Hamilton	29.57	751.1	29.98	761.5	26.5	— 3.1	82	sw.	.....	.....	1	10 cs	0	sw.	.....	0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.66	753.4	30.02	762.5	27	— 2.8	88	e.	3	1.3	.....	.....	fg.	.....	.....	0	0	cloudy	A. P. Knight, M. A
Montreal, Quebec*	29.84	757.9	30.07	763.8	6	—14.4	96	sw.	7	3.1	.....	.....	fg.	.....	.....	0	0	dense fog	C. H. McLeod, C. E.
Ottawa	29.76	755.9	30.02	762.5	19.2	— 7.1	90	calm	.....	.....	0	.....	10 s	.....	.....	0	0	foggy	A. McGill, M. A.
Parry Sound, Ontario*	29.19	741.4	29.92	760.0	25	— 3.9	88	s.	9	4.0	.....	.....	10 n	.....	s.	0	0	cloudy	Rev. R. Mosley.
Peterboro	29.21	741.9	29.99	761.7	28.3	— 2.1	88	w.	.....	.....	3	.....	10 n	.....	.....	0	0	overcast	J. Dixon, B. A.
Port Dover, Ontario	29.29	744.0	30.02	762.5	26	— 3.3	100	sw.	8	3.6	.....	.....	10 n	.....	.....	0	0	hazy	H. Morgan.
Port Stanley, Ontario	29.35	745.5	30.03	762.7	25	— 3.9	80	sw.	8	3.6	.....	.....	10 n	.....	sw.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.74	755.4	30.09	764.3	5	—15.0	100	w.	.....	.....	1	.....	fg.	.....	.....	0	0	foggy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.45	748.0	29.93	760.2	21	— 6.1	84	calm	0	0	.....	.....	10 n	.....	.....	0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.16	740.7	29.91	759.7	26	— 3.3	92	s.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	
St. Andrews, N. B	29.92	760 0	29.98	761.5	24	— 4.4	86	ne.	1	0.4	.....	.....	10 n	.....	.....	0.02	0.5	cloudy	
St. John, N. B	29.82	757.4	30.00	762 0	20.0	— 6.7	85	ne.	9	4.0	.....	.....	10 s	.....	.....	0.02	0.5	overcast	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.80	756.9	32.0	0.0	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	The Commandant.
Stratford	29.86	758.4	30.01	762.2	21.2	— 6.0	93	sw.	2	0.9	.....	.....	10 s	.....	.....	0	0	overcast	C. J. Macgregor, M. A.
Sydney, C. B*	29.83	757.7	29.90	759.4	22	— 5.6	91	n.	4	1.8	.....	.....	10 n	.....	.....	0.11	2.8	light snow	T. C. Hill, C. E.
Toronto, Ontario*	29.61	752.1	30.01	762.2	26	— 3.3	88	sw.	10	4.5	.....	.....	10 n	.....	sw.	0	0	cloudy	Magnetic Observatory.
Windsor	29.83	757.7	29.93	760.2	22.5	— 5.3	93	n.	6	2.7	.....	.....	10 n	.....	.....	0	0	overcast	Prof. W. H. Butler.
Woodstock	28.92	734.6	30.04	763.0	24.1	— 4.4	91	.....	.....	.....	.....	.....	10 s	.....	.....	0	0	overcast	Prof. Wolverton, M. A.
Yarmouth, N. S*	29.87	758.7	29.94	760.5	29	— 1.7	92	ne.	2	0.9	.....	.....	10 s	.....	n.	0.37	9.4	cloudy	Lt. F. E. Wilmot, R. A.
Cape Colony.																			
Cape St. Francis Lt. House	29.98	761.5	30.01	762.2	71.0	21.7	73	e.	12.8	5.7	.....	.....	hz.	.....	.....	0	0	light haze	John Duthie.
Springbok Fontein	27.83	706.9	.....	.....	93	33.9	31	e.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction Upper.	Clouds. Direction Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.58	624.2	.....	.....	18.0	— 7.8	.....	ne.	.....	.....	2	.....	fg	.....	.....	0.307	7.8	foggy	
Tchang-kia-tchouang	29.95	760.8	30.06	763.6	20.3	— 6.5	98	n.	.....	.....	2	.....	10	.....	.....	0.315	8.0	snowing	**Mission, S. J.**
Zi-Ka-Wei, near Shanghai	29.75	755.6	29.77	756.2	39.7	4.3	87	w.	22.4	10.0	.....	.....	10	.....	.....	0.055	1.4	covered	M. Marc Dechevrens, S.J
Danish.																			
Copenhagen	29.32	744.8	29.37	746.0	37.6	3.1	98	ssw.	22	10	.....	.....	10	.....	.....	.....	.....	rain & fog	**Oversergent Fischer.**
Fanoe	29.26	743.1	29.28	743.6	41.4	5.2	98	wsw.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	**Overloerer Lauridsen.**
Godthaab, Greenland	29.52	749.7	29.56	750.8	1.2	—17.1	95	nnw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	29.43	747.6	29.45	748.1	2.7	—16.3	.....	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.52	749.7	29.56	750.9	—17.0	—27.2	.....	calm	.....	.....	0	.....	6	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.96	735.6	29.00	736.7	24.8	— 4.0	89	ne.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	
Thorshavn	28.78	731.0	28.82	731.9	34.2	1.2	73	w.	7	3	.....	.....	7	.....	.....	.....	.....	.....	A. O. Thorlacius.
Vestervig	29.01	736.8	29.10	739.1	40.5	4.7	97	ssw.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	Overloerer Bergh.
Upernavik, Greenland	29.52	749.9	29.57	751.1	— 2.6	—19.2	.....	e.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	Loerer Oesterbol.
French.																			
Agen, Normal School	29.77	756.1	30.42	772.7	58.6	14.8	87	se.	.....	.....	1	.....	n	.....	.....	0.303	7.7	.....	M. Labroue, Director.
Alençon, Normal School	29.40	746.7	29.95	760.7	50.4	10.2	93	sw.	.....	.....	4	.....	kn	ne.	ne.	0.39	10.	.....	M. Nicot, Director.
Arras, Engineer School	29.43	747.5	29.69	754.1	51.4	10.8	.....	.....	.....	.....	9	.....	s	.....	sw.	0.028	0.7	.....	M. Fénéon, Command't.
Avignon, Normal School	30.30	769.5	30.37	771.5	50.0	10	46	ne.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. Giraud, Director.
Bar-sur-Seine	29.51	749.5	30.07	763.7	53.6	12.0	56	sw.	.....	.....	2	0	8 kn	.....	w.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.69	754.0	29.95	760.8	52.7	11.5	76	wsw.	.....	.....	3	.....	10	.....	wsw.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.25	743 0	30.16	766.1	48.2	9	44	s.	.....	.....	3	c	0	.....	e.	0.322	8.2	.....	M. Gobin, Director.
Bordeaux, Observatory	29.89	759.2	30.15	765.9	55.4	13.0	74	sse.	.....	.....	1	.....	2	.....	.....	0.012	0.3	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.68	753.9	30.24	768.0	55.4	13	66	s.	.....	.....	2	.....	ks	.....	s.	0	0	.....	M. Malet, Director.
Brest, Naval Observatory	29.54	750.4	29.79	756.6	51.8	11.0	95	sw.	.....	.....	6	.....	10	.....	sw.	0.039	1.0	.....	M. de Kermaréc, Dir.
Caen, Normal School	29.70	754.4	29.78	756.3	55.8	13.2	84	ne.	.....	.....	3	.....	5	.....	.....	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.64	752.8	29.97	761.1	48.9	9.4	85	ssw	.....	.....	4	.....	10	.....	.....	0.016	0.4	covered	M. Jadot, Director.
Charleville, Normal School	29.43	747.5	29.95	760.7	47.5	8.6	81	se.	.....	.....	1	.....	10	.....	.....	0.087	2.2	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.80	731.4	30.16	766.0	54.0	12.2	52	sw.	.....	.....	1	2 c	0	.....	.....	0	0	¼ covered	M. Allard, Director.
Cluny, Normal School	29.32	744.7	30.22	767 7	48.6	9.2	50	sw.	.....	.....	3	.....	.....	.....	sw.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.19	741.5	30.08	763 9	46.8	8.2	92	s.	.....	.....	1	.....	5 n	s.	s.	0.028	0.7	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.69	703.4	30.31	769.9	42.8	6	87	.....	.....	.....	.....	2 c	0	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, du Rhone	29.22	742.3	30.37	771.3	55.9	13.3	45	ne.	.....	.....	2	.....	2	.....	se.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.54	750.3	30.34	770.7	45.7	7.6	59	ese.	.....	.....	1	2 c	0	.....	.....	0	0	slightly cl'dy	M. Ablard, Director.
Guéret	28.47	723.2	30.06	763.5	54.5	12.5	54	w.	.....	.....	3	2 ck	0	se.	.....	0	0	slightly cl'dy	**M. Delorme, Dir.**
Lamballe, Normal School	29.47	748.6	29.74	755.4	52.9	11.6	83	s.	.....	.....	4	.....	10	.....	s.	0	0	covered	M. Ollitrault, Director.
Lescar, Normal School	29.61	752.0	30.17	766.3	63.0	17.2	52	e.	.....	.....	1	1 c	0	.....	.....	0.024	0.6	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.78	756.4	29.88	759.0	54.0	12.2	78	ssw.	.....	.....	6	.....	10	.....	s.	0.260	6.6	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.19	741 3	30.27	768.8	48.9	9.4	53	sse.	.....	.....	1	5 c	0	.....	.....	0	0	fair	M. André, Director.
Mans, Normal School	29.68	753.9	29.99	761.8	52.9	11.6	80	sw.	.....	.....	4	.....	5	.....	w.	0.008	0.2	cloudy	M. Piboën, Director.
Marseille, Observatory	30.09	764.3	30.36	771.2	59.4	15.2	58	se.	.....	.....	1.2	.....	2	.....	e.	0	0	.....	M. Stephan, Director.
Montlouis	25.05	636.3	29.89	759.3	46.4	8.0	32	sw.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	**M. Caré for Dr. Finsa.**
Montpellier, Normal School	30.14	765.6	30.28	769.0	47.1	8.4	76	w.	.....	.....	2	.....	5	se.	.....	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.21	741.9	30.01	762.3	45.3	7.4	69	s.	.....	.....	1	.....	kn	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	29.88	759 0	30.06	763.6	55.6	13.1	76	sw.	.....	.....	1–2	ck	9 k; kn	sw.	sw.	0.012	0.3	.....	M. Larocque, Director.
Perpignan, Observatory	30.22	767.5	30.33	770.4	50.2	10.1	83	ne.	13.0	5.8	.....	.....	9	.....	ne.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.43	544.2	.....	.....	34.9	1.6	.....	wsw.	.....	.....	3	.....	1	.....	wsw.	0	0	clear	**M. Vaussenat.**
Privas, Normal School	29.24	742.6	30.32	770.2	49.6	9.8	64	nw.	.....	.....	1	.....	1	nw.	nw.	0	0	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.23	640.9	.....	.....	39.7	4.3	49	wsw.	.....	.....	6	2 c; ck	0	.....	.....	0 008	0.2	¼ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.07	763.8	30.10	764.6	52.9	11.6	83	s.	.....	.....	2	.....	10	sw.	sw.	0.20	5.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.80	757.0	30.03	762.7	53.6	12.0	83	s.	.....	.....	3	.....	8	.....	sw.	0.024	0.6	very cloudy	M. Brotier, Director.
Rodez, Normal School	28.10	713.8	30.27	768.8	54.3	12.4	57	w.	.....	.....	1	.....	k	.....	se.	0	0	.....	M. Seger, Director.
Rouen, Normal School	29.75	755.6	29.80	756.8	54.3	12.4	74	sw.	.....	.....	2	.....	10	sw.	.....	0	0	covered	M. Mouillot.
Saint Lô	.....	.....	.....	.....	53.2	11.8	76	w.	.....	.....	1	.....	10	.....	sw.	0.016	0.4	covered	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.79	756.6	29.95	760.8	50.7	10.4	81	s.	.....	.....	2	.....	10	.....	wsw.	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.52	749.8	30.25	768.3	54.0	12.2	74	sse.	.....	.....	3	.....	2	w.	.....	0	0	slightly cl'dy	M. Bailland, Director.
Tours	29.87	758.8	30.05	763.3	53.2	11.8	75	sse.	.....	.....	2	.....	5	wsw.	sw.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.43	747.5	29.92	760.0	50.0	10.0	82	sw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	30.02	762.6	30.17	766.4	66.0	18.9	77	s.	13.9	6.2	.....	0	2 k	.....	wnw.	0	0	.....	**M. Cartier, Director.**
German.																			
Ansbach	28.62	727.0	30.13	765.3	38.1	3.4	82	sw.	.....	.....	2	.....	10	sw.	.....	0	0	.....	**Prof. Jnedt.**
Bamberg	29.14	740.1	29.98	761.5	37.8	3.2	78	sw.	.....	.....	2	.....	5	.....	.....	0.327	8.3	light rain	Prof. Dr. Hoh.
Berlin	29.66	753.4	29.81	757.2	37.6	3.1	91	sw.	.....	.....	5	.....	10	.....	.....	0	0	.....	**Dr. Lensch.**
Breslau	29.48	748.9	30.02	762.4	40.1	4.5	59	sw.	.....	.....	4	.....	10	.....	.....	0.008	0.2	foggy	Royal University Obs'y
Carlsruhe	29.60	751.9	30.04	763.1	50.7	10.4	62	sw.	.....	.....	5	.....	10	sw.	.....	0	0	.....	Albert Senz.
Cassel	29.12	739.6	29.83	757.7	39.9	4.4	93	s.	.....	.....	2	.....	10	.....	.....	0.079	2.0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.59	751.6	29.97	761.1	43.5	6.4	83	sw.	.....	.....	2	.....	10	.....	.....	0.224	5.7	.....	**Physical Society.**
Friedrichshafen	28.74	730.1	30.23	767.8	41.2	5.1	69	s.	.....	.....	1	.....	8	w.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	29.50	749.2	29.59	751.5	45.0	7.2	94	sw.	.....	.....	8	.....	10	.....	.....	0.228	5.8	light rain	E. Preller.
Kiel	29.49	749.1	29.51	749.5	45.0	7.2	97	wsw.	.....	.....	8	.....	10	.....	.....	0.311	7.9	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.48	748.8	29.91	759.8	39.9	4.4	80	ssw.	.....	.....	4	.....	10	wsw.	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	29.60	751.8	29.79	756.7	43.0	6.1	81	ssw.	.....	.....	5	.....	10 ks	.....	sw.	0.118	3.0	.....	**Weather Observatory.**
Memel	29.82	757.3	29.86	758.5	34.3	1.3	91	ssw.	.....	.....	4	.....	10 s	.....	.....	.....	.....	.....	Iesermann.
Munich	28.30	718.9	30.17	766.4	44.4	6.9	41	sw.	.....	.....	2	.....	8	w.	.....	0.012	0.3	.....	**Central Station.**
Neufahrwasser	29.81	757.2	29.83	757.6	37.6	3.1	87	s.	.....	.....	4	.....	10	.....	.....	0.031	0.8	.....	**A. Lothes.**
Neustadt, Palatinate	29.48	748.7	30.00	762.1	50.5	10.3	69	wsw.	.....	.....	7	.....	10	sw.	.....	.....	.....	rainy	Dicknether.
Stuttgart	29.12	739.7	30.03	762.7	49.1	9.5	67	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	**Prof. Dr. Schoder.**
Wustrow	29.53	750.0	29.55	750.6	40.3	4.6	100	s.	.....	.....	6	.....	10	.....	.....	0.146	3.7	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.77	756.2	30.17	766.3	46.8	8.2	.....	n.	.....	.....	1.5	.....	9	.....	.....	0.016	0.4	covered	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.00	761.9	30.05	763.2	68.1	20.1	26	ese.	14.0	6.3	.....	.....	4	sw.	.....	0	0	d. clouds	
Deesa	29.50	749.2	29.98	761.6	69.2	20.7	11	n.	11.0	4.9	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.85	758.2	29.89	759.2	77.6	25.3	61	nnw.	20.0	8.9	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.99	710.9	29.83	757 8	81.8	27.7	22	wnw.	6.0	2.7	.....	.....	5	w.	.....	0	0	d. clouds	
Belgaum	27.29	693.2	29.81	757.1	80.5	26.9	38	wsw.	7.0	3.1	.....	.....	8	s.	.....	0	0	d. clouds	
Lahore	29.24	742.7	30.03	762.8	53.7	12.1	61	calm	0	0	.....	.....	2	.....	.....	0	0	blue sky	
Roorkee	29.04	737 6	29.98	761.5	58.8	14.9	56	calm	0	0	.....	.....	7	W.	.....	0	0	.....	
Agra	29.40	746.8	29.99	761.7	64.3	17.9	53	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.86	733 1	29.92	759.9	74.7	23.7	27	calm	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Jubbulpore	28.57	725.7	29.96	761.0	67.9	19.9	36	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.61	752.0	30.00	762.1	60.3	15.7	52	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.65	753.1	29.98	761.5	58.5	14.7	70	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.77	756.1	29.96	761.0	60.2	15.7	57	w.	5.1	2.3	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.89	708.3	29.99	761.7	56.7	13.7	55	n.	7.1	3.2	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.85	758.2	29.94	760.4	72.9	22.7	47	ne.	2.0	0.9	.....	.....	1	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.94	760.6	29.97	761.1	66.0	18.9	48	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.82	757.5	29.95	760.6	60.9	16.1	88	calm	0.5	0.2	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.88	758.9	29.97	761.3	64.4	18.0	41	nw.	3.1	1.4	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.63	752.5	29.98	761.5	59.3	15.2	85	ne.	1.0	0.4	.....	.....	6	sw.	sw.	0	0	d. clouds	
Zanzibar	29.75	755.6	29.77	756.2	83.0	28.3	82	n.	4.6	2.1	.....	.....	8	.....	.....	0	0	gloomy	
Jeypore	28.51	724.1	30.02	762.5	58.6	14.8	26	nw.	12.8	5.7	.....	.....	0	.....	.....	0	0	blue sky	
Bellary	28.34	719.8	.....	.....	84.0	28.9	40	se.	8	3.6	.....	5 c	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.59	751.6	.....	.....	84.0	28.9	54	ene.	2	0.9	.....	.....	2	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.																			
Udine	29.99	761.8	30.42	772.6	41.9	5.5	45	calm	0	0			3			0	0		**Prof. Giovanni Clodig.**
Milan	29.88	759.0	30.43	772.8	42.8	6.0	49	ssw.	3.8	1.7			7	nw.		0	0		**Prof. Schiapparelli.**
Padua	30.30	769.5	30.41	772.4	40.1	4.5	56	e.	1.3	0.6			3	n.		0	0		**Prof. Dott. Lorenzoni.**
Moncalieri	29.47	748.5	30.42	772.6	38.5	3.6	57	e.	1.3	0.6			5			0	0		**Prof. F. F. Denza.**
Genoa	30.22	767.6	30.42	772.6	52.9	11.6	46	se.	9.4	4.2			10	s.		0	0		**Prof. G. M. Garibaldi.**
Mondovi	28.42	721.8	30.43	772.8	40.5	4.7	28	w.			2		3	n.		0	0		Prof. D. C. Bruno.
Pesaro	30.36	771.1	30.41	772.4	48.6	9.2	86	wsw.	6.3	2.8			0			0	0		Prof. Luigi Guidi.
Florence	30.18	766.5	30.44	773.2	45.0	7.2	50	ne.			2.		0			0.118	3.0		Prof. Costantino **Pittei.**
Leghorn	30.29	769.3	30.37	771.5	50.2	10.1	54	ssw.	3.1	1.4			4			0	0		Prof. P. Monte.
Rome	30.24	768.2	30.43	772.8	52.3	11.3	45	n.	0	0s			0			0.004	0.1		Prof. P. Tachini.
Lecce	30.06	763.5	30.32	770.1	49.8	9.9	45	nne.	22.4	10.0			3	nne.		0	0		Prof. C. de Giorgi.
Cosenza	29.43	747.6	30.35	770.9	48.6	9.2	73	nw.	4.3	1.9			5	w.		0.299	7.6		Prof. D. Conti.
Cagliari	30.27	768.8	30.47	773.9	53 6	12.0	65	nw.			2		0			0	0		Prof. A. Pacinotti.
Palermo	30.14	765.5	30.39	772.0	54.9	12.7	59	ne.	9.4	4.2			2			0	0		Prof. G. Cacciatore.
Syracuse	30.21	767.2	30.25	768.3	55.2	12.9	57	nne.	19.9	8.9			8	wnw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.89	759 2	30.43	773.0	50.7	10.4	45	nne.	6.3	2.8			1	n.		0.047	1.2		Prof. F. Brioschi.
Stelvio	22 28	565.9			28.6	— 1.9	88	ne.			2		1			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.32	567.0			32.0	0.0	53	se.			2		4			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.19	766.9	30.22	767.7	21.2	— 6.0	100	calm			0	0	0			0.004	0.1	clear	Hattori.
Awomori	30.14	765.6	30.18	766.6	24.5	— 4.2	60	ssw.	8.1	3.6		0	3 ks			0	0	fair	K. Ogawa.
Hakodate	30.17	766 3	30.18	766.6	16.0	— 8.9	92	n.	3.0	1.3		1	0			0	0	clear	
Hamamatsu	30.13	765.3	30.16	766.0	34.2	1.2	61	calm			0	0	0			0	0	clear	
Kagoshima	29.96	761.0	29.97	761.3	50.9	10.5	87	ene.			7		10 n			0.465	11.8	raining	G. Miyanohaza.
Kioto	30.00	761.9	30.18	766.6	28.9	— 1.7	80	nw.	3.8	1.7		0	0			0	0	clear	M. Tojima.
Kochi	30.10	764.6	30.12	765.1	42.1	5.6	74	w.	2.0	1.2		0	5			0.409	10.4	fair	K. Kusunose.
Miasaka	30.03	762.8	30.06	763.5	43.9	6.6	99	calm			0		10 n		e.	2.839	72.1	raining	K. Masusaki.
Nagasaki, I. M. Obs'y	29.72	754.8	29.92	760.0	49.1	9.5	73	ese.	1.2	0.5			10 n			0.650	16.5	light rain	S. Takehayashi.
Niigata	30.19	766.8	30.22	767.6	29.8	— 1.2	83	sw.	6.1	2.7		0	3 cks			0.020	0.5	fair	M. Morita.
Nobiru	30.18	766.6	30.20	767.0	29.6	— 1.3	66	nw.	8.9	3.9		0	0			0	0	clear	H. Midzushina.
Numazu	30.17	766.2	30.20	767.1	32.1	0.1	78	calm			0	0	0			0	0	clear	R. Kaneda.
Sakai	30.09	764.4	30.10	764.7	38.1	3.4	70	e.			4		9 s			0.039	1.0	cloudy	K. Yamawchi.
Sapporo					23.0	— 5.0	80	se.	0.2	0.1			10			0.017	0.4	covered	
Tokei Obs'y, Yeddo	30.14	765 6	30.22	767.7	32.0	0.0	52	nnw.	7.3	3.2		0	0			0	0	clear	The Staff.
Wakayama	30.09	764.3	30.15	765.7	34.5	1.4	70	ene.	5.5	2.5		0	0			0.064	1.6	clear	Y. Kuwamura.
Osaka	30.17	766.3	30.19	766.7	31.8	— 0.1	79	ne.	6.5	2.9		0	0			0.050	1.3	clear	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.61	752.1	29.80	756.9	81.8	27.7	71	ene.	13.5	6.0		0	4 k;ks		ene.	0.24	6.1	fair	Oliver & Figon.
MEXICAN.																			
Altata					52.8	11.6	96	nw.										clear	H. Diaz Pena.
Guanajuato	23.69	601.6	29.91	759.6	52.9	11.6	86	calm	0	0		0	0			0	0	foggy	Prof. Vicente Fernandez.
Leon	24.34	618.2	30.11	764.8	51.1	10.6	86	nw.			1	3 c	0			0	0	clear	Prof. M. Leal.
Mazatlan	29.76	755.8	30.02	762.5	59.5	15.3	80	nnw.	0.9	0.4		9 cs	0	sw.		0	0	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.6	30.28	769.2	49.6	9.8	83	calm	0	0			10 k		sw.	0	0	covered	The Staff.
Morelia	24.29	617.0	30.19	766.7	50.9	10.5	71	se.			2	1 c	0	se.		0	0	clear	M. Tena, M. D.
Pabellon	24.00	609.7	30.11	764.9	50.7	10.4	66	nne.			1	2 cs	0	sw.		0	0	clear	
Puebla, Catholic Institute	23.42	594.9	30.28	769.0	47.3	8.5	87	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
Zacatecas	22.54	572.5	30.31	769.7	43.7	6.5	49	n.	6.2	2.8		10 ck	0	sw.		0	0	covered	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.68	753.8	29.68	753.8	51.4	10.8		sw.			6					0.094	2.4		
Groningen	29.49	749.0	29.54	750.4	47.8	8.8		sw.			6					0.504	12.8		
Hellevoetsluis	29.65	753.1	29.65	753.1	50.4	10.2	83	sw.			5					0.465	11.8		
Utrecht	29.61	752.2	29.66	753.4	49.8	9.9	90	ssw.			5		8			0.295	7.5	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.79	756.6			77.9	25.5	88	wnw.	0	0			10			0.04	1.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	28.50	723.8	28.56	725.4	41.7	5 4	94	s.	25	11			10			0.433	11.0	raining	
Brono	28.85	732.7	28.89	733.7	33.4	0.8	65	ssw.	29	13			9			0.067	1.7		
Christiania	28.72	729.6	28.87	733.3	33.4	0.8	98	ssw.	7	3			10					rain & snow	
Gjaesvær	29.10	739.1	29.12	739.7	25.9	— 3.4		sse.			2		0						
Lodingen	28.97	735.7	29.01	736.9	34 0	1.1	55	sse.			6		1			0	0		
PORTUGUESE.																			
Angra, Azores	30.28	769.2	30.44	773.2	55.4	13.0	70	wnw.	10.5	4.7			4			0.256	6.5		Dr. J. A. Sampaio.
Campo Major	29.39	746.4	30.41	772.3	55.4	13.0	66	calm	0	0			7			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.41	772.3	30.49	774.5	62.6	17.0	67	sw.	5.6	2'5			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.06	763.6	30.43	773.0	53.5	12.0	86	ssw.	5.6	2.5			7	wsw.		0	0		The Staff.
Ponta Delgada, Azores	30.41	772 4	30.48	774.2	59.0	15.0	58	n.	8.7	3.9			4			0.134	3.4		
Saint Paul de Loando	29.71	754.0	29.91	759.7	80.2	26.8	88	wsw.	2.5	1.1			7	s.		0	0		
Serra da Estrella	25 54	648.7	30.37	771.5	43.2	6.2	64	ese.	4.9	2.2			7	nnw.		0	0		
RUSSIAN.																			
Akmolinski	29.45	747.9	30.69	779.5	— 7.8	—22.1	69	wsw.	13	6			10 n						Major K. Lasarew.
Archangel	29.89	759.1	29.91	759.6	12.9	—10.6	86	s.	13	6			10			0	0		Capt. Sselliwerstow.
Ashurada	30.30	769.6	30.21	767.2	43.3	6.3	79	nne.	11	5		0	3 ks			0	0		
Astrakhan	30.42	772.6	30.34	770.5	17.6	— 8.0	85	ese.	16	7			10			blank	blank	heavy cld's.	Capt. Wisganow.
Baku	30.25	768.3	30.20	767.1	39.7	4.3	82	sse.	13	6		0	8 ks			0	0		
Barnaul	30.12	765 0	30.71	780.1	—18.4	—28.0	77	sw.	4	2			10			0.236	6.0		Meteorological Obs'y.
Bielosersk	29.57	751.0	30.67	763.7	20.1	— 6.6	91	sse.	13	6			10 s			0	0		
Dorpat	29.57	751.1	29.83	757.6	21.6	— 5.8	100	s.	7	3			10 n			0.098	2.5		Observatory.
Ekaterinburg	29.58	751 3	30.64	778.3	11.3	—11.5	83	w.	11	5		0	0			lnap	lnap.		Meteorological Obs'y.
Elissawetgrad	29.63	752.6	30.11	764.8	24.3	— 4.3	91	calm	0	0			10 n			blank	blank		
Irkutsk	28.86	733.0	30.78	781.9	—15.3	—26.3	73	calm			0		0			0	0		
Kasan	30.32	770.2	30.63	777.9	5.2	—14.9	93	se.	11	5			0			0	0		
Kem	29.70	754 4	29.75	755.7	10.0	—12.2	81	s.	22	10		0	7 ks			0	0		Observatory.
Kertch	29.97	761.1	29.98	761.6	31.1	— 0.5	94	nw.	7	3			9 n			0	0		
Kieff	29.39	746.4	30.06	763.5	25.5	— 3.6	83	ssw.	4	2			10 n						Lagorio & Snatyrez.
Koslov	29.72	754.8	30.30	769.7	6.6	—14.1	91	se.	22	10			10 s			0.055	1.4	light snow	Observatory.
Libau	29.76	755.8	29.78	756.4	34.0	1.1	94	s.	13	6			10			0.083	2.1	snowing	
Lugan	29.89	759.1	30.09	764.2	23.5	— 4.7	84	e.	22	10			10			0	0		E. Quass.
Moscow	29.71	754 7	30.24	768.2	11.7	—11.3	85	se.	8.9	4.0			10 n			0.008	0.2	light snow	Meteorological Obs'y.
Nikolaiev	30.04	763.0	30.11	764.9	27.7	— 2.4	83	calm	0	0		0	0			0	0		
Nikolaievsk-on-the-Amoor	29.78	756.5	29.87	758.7	—11.2	—24.0	72	calm	0	0			0			0	0		Capt. Kurdakow.
Pekin, China	29.90	759.4	30.04	763.0	22.1	— 5.5	93	calm	0	0			10			0.008	0.2	snowing	Iwanow.
Petrozavodsk	29.08	753.8	29.89	759 2	15.4	— 9.2	81	ssw.	22	10			10			lnap.	lnap.	light clouds	Physicla Observatory.
Pinsk	29.50	749.4	30.03	762.8	33.8	1.0	98	nw.	13	6			10 n			0.016	0.4	snowing	Dr. Bergmann.
Poti	29.85	758.3	29.87	758.8	49.3	9.6	56	e.	9	4		0	7 ks			0	0		
St. Petersburg	29.84	757.9	29.85	758.3	14.7	— 9.6	91	sse.	13	6			10 n			0	0		
Samarkand	27.80	706.0	30.50	774.8	14.2	— 9.9	92	se.	18	8		0	0						Central Physical Obs'y.
Sevastopol	29.81	757.2	29.98	761.4	31.3	— 0.4	92	ne.	20	9			10 n			0.063	1.6	heavy cl'ds.	
Semipalatinsk	30.04	762.9	30.80	782.4	—17.3	—27.4	83	e.	16	7			10			0	0		Major Lasarew.
Starol Bykhov	29.62	752.4	30.11	764.7	26.4	— 3.1	78	se.	7	3			10			0.012	0.3		
Tiflis	28.70	730.4	30.25	768.3	33.1	0.6	78	se.	4	2			10			0	0		Physical Observatory.
Tomsk	30.26	768.7	30.60	777.1	—21.1	—29.5	75	s.	9	4			10						
Viatka	29.86	758.5	30.61	776.5	2.1	—16.6		s.	4	2			0			0	0		
Warsaw	29.60	751.9	30.04	763.0	35.2	1.8	88	wsw.	9	4			10			0.039	1.0	heavy cl'ds.	Astronomical Obs'y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Wilna	29.54	750.3	29.98	761.6	25.0	— 3.9	100	s.	2	1			10			inap.	inap.	heavy clouds	Berg, Assistant.
Yeniseisk	30.32	770.1	30.66	778.8	—23.4	—30.8	76	calm	0	0			0			0	0		M. O. Marks.
Scottish.																			
Monach Lt			29.18	741.2	40	4.4	91	wnw.			7		10			0.5	13.		J. Youngclause.
North Unst			28.75	730.2				nw.			6		10			blank	blank		Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.24	768.1	30.35	770.8	56.1	13.4	64	w.	3.8	1.7		0	0			0	0	clear	Antonio Reve, Director.
Bilbao, Met. Obs'y	30.16	766.1	30.22	767.6	60.8	16.0	48	s.	4.5	2.0		2	7	se.		0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.33	694.2	30.35	771.0	50.0	10.0	60	sw.	5.6	2.5			1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	28.17	715.6	30.47	773.9	50.5	10.3	65	se.	2.9	1.3		0	0			0.004	0.1	clear	The Staff.
Murcia, Met. Obs'y	30.29	769.4	30.44	773.1	67.3	19.6	67	sw.	2.9	1.3		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.33	745.0	30.21	767.4	51.8	11.0	62	s.	21.5	9.6		3 s	2 k		w.	0.098	2.5	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.22	742.1	30.13	765.2	52.2	11.2	90	s.	20.6	9.2			10			0	0	covered	R. Gil Villanueva, Dir.
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.83	757.7	29.89	759.1	79.0	26.1	83	ene.	19.7	8.8		0	2 k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.37	771.4	30.47	773.9	63.0	17.2	61	ese.	10.6	4.7		2	3	e.	e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.00	761.9	30.09	764.2	77.0	25.0	84	e.	17.7	7.9		5 c	5 k	s.	e.	0.307	7.8	d. clouds	Manuel Maese.
Swedish.																			
Hapsranda	29.46	748 3	29.50	749.3	23.4	— 4.8	95	s.			2		10			0.386	9.8		
Umea	29.32	744.6	29.37	745.9	30.2	— 1.0	88	sw.			6		10			0.504	12.8		
Hernosand	29.23	742.4	29.28	743.7	22.6	— 5.2	96	calm			0		10			0	0		
Stockholm	29.20	741.6	29.37	746.1	34.2	1.2	96	s.			6		10			0.091	2.3	snowing	
Wisby	29.50	749.3	29.56	750.8	36.0	2.2	96	ssw.			4		10			0.098	2.5	raining	
Sub-series.																			
Upsala	29.24	742.7	29.33	744.9	33.8	1.0	90	sse.	21.5	9.6			10			0.189	4.8	rain & snow	S. G. Fineman.
Swiss.																			
Geneva	28.83	732.3	30.27	768.8	49.1	9.5	45	se.			1		3			0	0	cloudy	The Observatory.
Turkish.																			
Constantinople			30.19	766.8	41.0	5.0	59	nnw.	10	4.5			7		nnw.	0.075	1.9		The Observatory.
Valona			30.28	769.1	48.7	9.3		ne.			1		2			0	0	slightlycl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.85	758.2	57.4	14.1	75	sw.			4		10 n		sw.	1.315	33.4		Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.87	682.5			32	0.0	83	w.			1	0	5 c		s.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.00	762.0	30.08	764.0	30.4	— 0.9	77	n.	6	2.7			10 s			0.32	8.1	cloudy	J. O. Barnes.
Alpena, Michigan	29.22	742.2	29.93	760.2	22	— 5.6	84	n.	4	1.8			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.27	641.8	30.39	771.9	23	— 5.0	67	ne.	3	1.3		0	0			0	0	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	26.66	677.2	29.70	754.4	26	— 3.3	77	w.	28	12.5			10 n		w.	0.06	1.5	light snow	B. O. Lenoir.
Atlanta, Georgia	28.85	732.8	30.08	764.0	42.0	5.6	92	nw.	12	5.4		5 cs	5 s	w.	w.	0.20	5.1	cloudy	H. C. Smith.
Atlantic City, New Jersey	29.96	761.0	29.97	761.2	35	1.7	89	ne.	12	5.4			10 s			0.74	18.8	cloudy	Jas. M. Watson.
Augusta, Georgia	29.76	755.9	29.96	761.0	61	16.1	90	calm	0	0			10 s		sw.	0.13	3.3	cloudy	John Healy.
Baltimore, Maryland	29.99	761.7	30.04	763.0	42	5.6	65	n.	2	0.9			10s;fg		nw.	0.00	1.5	cloudy	Geo W Felger.
Barnegat, New Jersey	29.96	761 0	29.98	761.5	35.0	1.7	96	n.	15	6.7			10 s			0.73	18.5	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.32	744 7	29.34	745.2	33.0	0.6		e.	9	4.0			10 n			0.01	0.3	cloudy	Leonard Steineger.
Bennett, Fort, Dakota	28.09	713 5	29.83	757.7	7	—13.9	80	calm	0	0		0	2 s			0.08	2.0	clear	A. Pritchard.
Benton, Fort, Montana	26.73	678.9	29.71	754.6	32	0.0	100	n.	24	10.7			10 n		nw.	0.15	3.8	heavy snow	S. Wheaton.
Billings, Montana	26.21	665.7			35	1.7	72	sw.	19	8.5		0	9 s		sw.	0.01	0.3	cloudy	T. Gibson.
Bismarck, Dakota	27.74	704.6	29.73	755.1	12	—11.1	83	e.	7	3.1			10 s			inap.	inap.	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.96	761.0	29.99	761.7	35	1.7	89	ne.	18	8.0			10 s		ne.	0.66	16.8	cloudy	J. T. Elker.
Boise City, Idaho	27.44	697.0	30.37	771.4	30.3	— 0.9	96	w.	3	1.3			10 n			0.84	21.3	light rain	B. E. Light.
Boston, Massachusetts	29.85	758.2	30.02	762.5	33.3	— 0.7	90	ne.	8	3.6			10s;fg			0.36	9.1	cloudy	O. B. Cole.
Brownsville, Texas	30.21	767.3	30.26	768.6	53.3	11.8	66	n.	7	3.1			10 s		w.	0	0	cloudy	M. McCarty.
Buffalo, New York	29.24	742.7	30.04	763.0	27.2	— 2.7	88	s.	11	4.9			10 s		s.	0	0	cloudy	W. Finn.
Buford, Fort, Dakota	27.36	694.9	29.56	750.8	25	— 3.9	100	e.	10	4.5			10 n			0.07	1.8	heavy snow	F. A. Mellen.
Burlington, Vermont	29.77	756.1	30.08	764.0	24.0	— 4.4	88	n.	1	0.4			10 s		n.	inap.	inap.	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.62	752.3	30.04	763.0	37.8	3.2	84	sw.	5	2.2		0	4 s		sw.	0	0	fair	W. H. Ray.
Cape Henry, Virginia	29.92	760.0	29.94	760.5	38	3.3	100	n.	10	4.5			10 n			0.59	15.0	light rain	A. K. Alderson.
Cape May, New Jersey	29.94	760.5	29.98	761.5	37.0	2.8	89	n.	12	5.4			10 s			0.47	11.9	cloudy	W. E. Smith.
Cape Mendocino, California	29.64	752.8	30.34	770.6	52	11.1	100	calm	0	0			fg.			0.36	9.1	dense fog	J. J. McLean.
Cedar Keys, Florida	30.02	762.5	30.04	763.0	62	16.7	100	w.	10	4.5			10 n		w.	0.50	12.7	heavy rain	F. W. Mixer.
Champaign, Illinois	29.04	737.6	29.90	759.4	30.5	— 0.8	69	s.	11	4.9			10 s		s.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.91	759.7	29.97	761.2	61	16.1	93	w.	7	3.1			10n;fg		w.	0.06	1.5	light rain	J. H. Smith.
Charlotte, N. Carolina	29.02	737.1	29.91	759.7	53.0	11.7	93	ne.	8	3.6			10 s		ne.	0.11	2.8	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.25	742.9	30.11	764.8	42.0	5.6	79	nw.	3	1.3		0	2 ks		nw.	0.04	1.0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.65	600 7	29.90	759.4	36.1	2.3	31	nw.	48	21.5			10 s			inap.	inap.	cloudy	E. McGovern.
Chicago, Illinois	29.15	740.4	29.90	759.4	26.2	— 3.2	84	sw.	1	0.4		0	fg.			0	0	clear	J. Mitchell.
Chincoteague, Virginia	29.91	759.7	29.93	760.2	37	2.8	100	ne.	20	8.9			10 n		ne.	0.48	12.2	light rain	C. F. Dickens.
Cincinnati, Ohio	29.38	746.2	30.06	763.5	32	0.0	88	s.	4	1.8			10 s			0.01	0.3	cloudy	R. B. Watkins.
Cleveland, Ohio	29.25	742.9	30.03	762.7	25.5	— 3.6	94	s.	5	2.2			10 s			0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.34	719.8	30.22	767.6	37	2.8	42	n.	12	5.4		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.16	740.7	30.06	763.5	30	— 1.1	77	sw.	6	2.7			10 s			inap.	inap.	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.24	717.3	30.26	768.6	30.2	— 1.0	60	sw.	10	4.5		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.18	741.2	29.89	759 2	32	— 5.6	58	n.	1	0.4		8 cs	hz.	w.		0	0	cloudy	W. B. Lamar.
Davis, Fort, Texas	25 36	644.1	30.34	770.6	23	— 5.0	67	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.22	716.8	30.02	762.5	35	1.7	89	s.	8	3.6			10 s		sw.	0.51	13.0	cloudy	D. Moore.
Deadwood, Dakota	24.91	632.7	29.85	758.2	35	1.7	92	sw.	12	5.4		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	29.96	761.0	29.98	761.5	34	1.1	100	n.	10	4.5			10s;fg		n.	0.39	9.9	cloudy	T. S. Townsend.
Denison, Texas	29.34	745.2	30.18	766.6	38.0	3.3	72	calm	0	0		0	0			0	0	clear	J. W. Byram.
Denver, Colorado	24.47	621.5	29.99	761.7	48.0	8.9	37	sw.	28	12.5		0	6 ks		nw.	0	0	fair	F. M. Neal.
Des Moines, Iowa	29.02	737.1	29.99	761.7	13	—10.6	61	n.	6	2.7			10 s		n.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.26	743.2	30.02	762.5	32.0	0.0	88	s.	10	4.5			10s;fg			0	0	cloudy	O. F. R. Wappenhans.
Dodge City, Kansas	27.37	695.2	30.12	765.0	28	— 2.2	67	sw.	9	4.0		0	0			0	0	clear	V. P. Temple.
Dubuque, Iowa	29.16	740.7	29.93	760.2	18	— 7.8	84	nw.	1	0.4			10 s			0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.15	740.4	29.96	761.0	9	—12.8	76	w.	1	0.4			10 s			0.01	0.3	cloudy	N. B. Conger.
Eagle Pass, Texas	29.49	749.0	30.33	770.4	36.0	2.2	61	n.	1	0.4		5 cs	0	sw.		0	0	fair	F. Belford.
Eagle Rock, Idaho	25.17	639.3	30.13	765.3	31	— 0.6	92	sw.	35	15.6			10 s		sw.	0	0	cloudy	J. M. Clifford.
Eastport, Maine	29.96	761.0	30.03	762.7	24.0	— 4.4	88	n.	10	4.5			10 s		nw.	0.14	3.6	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.27	692.6	30.20	767.1	27	— 2.8	67	calm	0	0		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.49	672.8	30.37	771.4	29.0	— 1.7	49	nw.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.27	743.4	30.04	763.0	30	— 1.1	88	s.	4	1.8			10 s		sw.	0	0	cloudy	Peter Wood.
Escanaba, Michigan	29.22	742.2	29.94	760.5	—1.5	—18.6	77	calm	0	0		0	0			0	0	clear	George Heathcote.
Fredericksburg, Texas	28.43	722.1	30.25	768.3	33	0.6	81	w.	2	0.9		0	0			0	0	clear	Frank Halwegler.
Galveston, Texas	30.19	766.8	30.24	768.1	49	9.4	77	n.	8	3.6		8 ck	0	w.		0	0	cloudy	E. O'C. Macinernay.
Grand Haven, Michigan	29.21	741.9	29.92	760.0	31.0	— 0.6	88	s.	6	2.7			10 s		s.	0	0	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.41	645.4	30.31	769.9	28	— 2.2	51	nw.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.85	758.2	29.87	758.7	50	10.0	100	s.	4	1.8			10 s		sw.	2.00	50.8	cloudy	R. M. Crawford.
Helena, Montana	25.40	645.1	29.83	757.7	37	2.8	82	sw.	18	8.0			10 s		sw.	0	0	cloudy	N. C. Smith.
Henrietta, Texas	29.13	739.9	30.20	767.1	28	— 2.2	77	calm	0	0		0	0			0	0	clear	J. P. Sherry.
Huron, Dakota	28.38	720.8	29.92	760.0	15	— 9.4	56	se.	10	4.5			10 s			inap.	inap.	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.15	740.4	29.99	761.7	29	— 1.7	88	se.	8	3.6			10 s			0	0	cloudy	J. F. Jirdinston.
Indianola, Texas	30.24	768.1	30.27	768.8	49.7	— 9.8	74	n.	7	3.1		0	8 k		sw.	inap.	inap.	cloudy	I. A. Reed.
Jacksboro, Texas	28.97	735.8	30.21	767.3	32	0.0	60	calm	0	0		0	0			0	0	clear	D. J. Carr.
Jacksonville, Florida	29.95	760.7	30.00	762.0	67	19.4	90	s.	4	1.8			10 s			0	0	cloudy	J. W. Smith.
Keogh, Fort, Montana	26.87	682.5	29.56	750.8	35	1.7	72	s.	7	3.1			10 s			0	0	cloudy	A. Schneider.
Keokuk, Iowa	29.18	741.2	29.88	758.9	25.0	— 3.9	73	sw.	9	4.0			10 s		sw.	0.01	0.3	light snow	F. Z. Gosewisch.

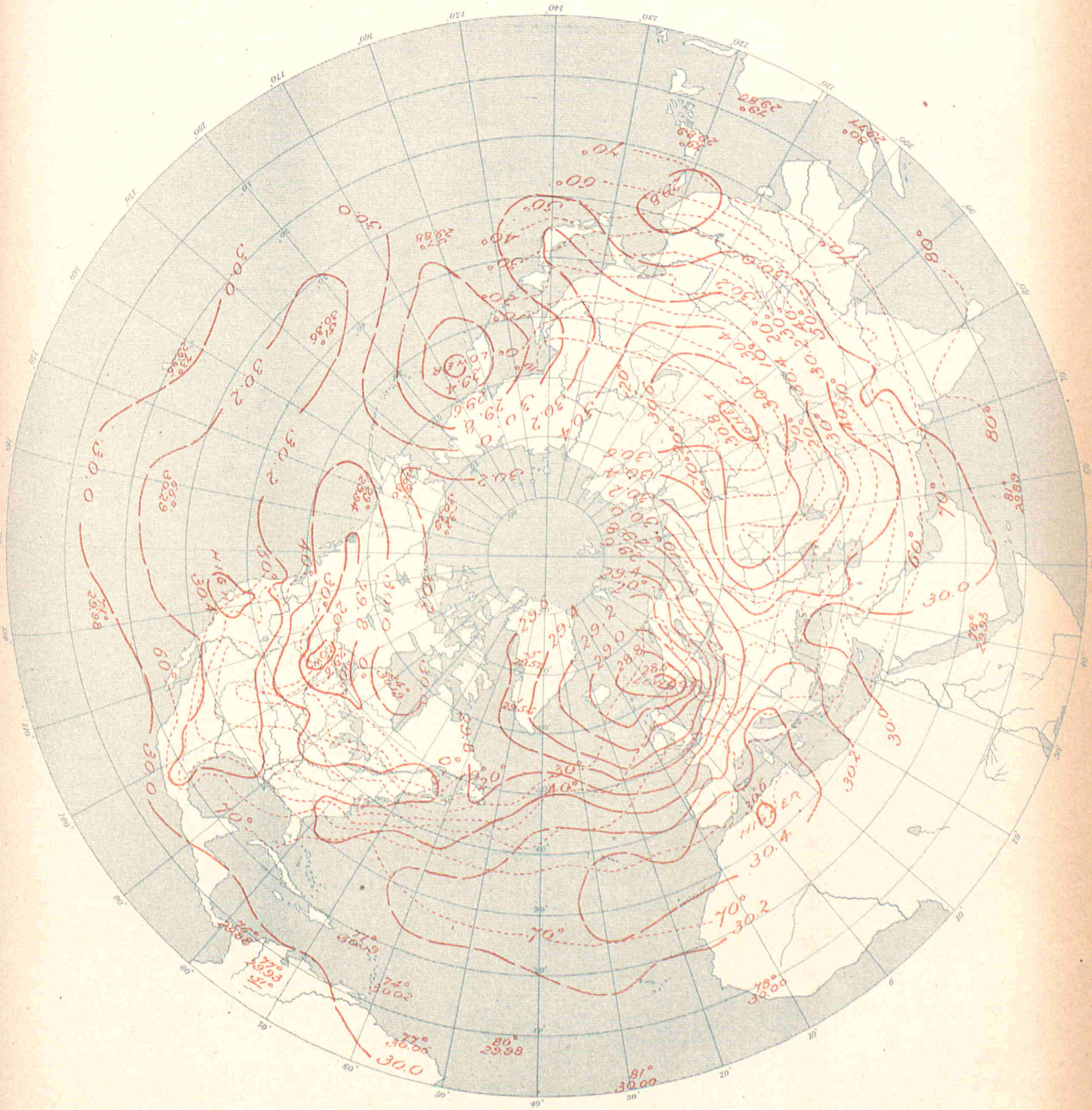
STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.04	763.0	30.06	763.5	72.0	22.2	94	calm	0	0	.....	1 c	2 ks	.....	s.	0.21	5.3	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	29.90	759.4	29.92	760.0	40	4.4	89	ne.	18	8.0	.....	.....	10s;fg	.....	.....	0.54	13.7	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.02	737.1	30.10	764.5	40.6	4.8	77	nw.	2	0.9	.....	.....	10 s	.....	nw.	0.11	2.8	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.12	739.6	29.96	761.0	5	—15.0	76	n.	2	0.9	.....	hz.	0	.....	.....	0	0	dense haze	S. C. Emery.
Leavenworth, Kansas	29.09	738.9	30.05	763.3	31	— 0.6	78	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.12	739.6	29.99	761.7	37.5	3.1	85	e.	1	0.4	.....	0	8 s	.....	w.	0.33	8.4	cloudy	W. Bell.
Little Rock, Arkansas	29.77	756.1	30.10	764.5	40	4.4	82	sw.	11	4.9	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.88	758.9	30.28	769.1	47	8.3	34	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.43	747.5	30.02	762.5	38	3.3	85	s.	8	3.6	.....	.....	sk.	.....	.....	0.01	0.3	dense smoke	L. M Dey.
Lynchburg, Virginia	29.31	744.5	30.03	762.7	43	6.1	74	ne.	3	1.3	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	Louis Duane.
Mackinaw City, Michigan	29.24	742.7	29.94	760.5	10.0	—12.2	58	w.	8	3.6	.....	3 cs	0	w.	.....	0	0	clear	F. R. Day.
Macon, Fort, North Carolina	29.96	761.0	29.97	761.2	56.0	13.3	93	sw.	1	0.4	.....	.....	10 s	.....	sw.	0.27	6.9	cloudy	William Daly.
Madison, Wisconsin	28.86	733.0	29.95	760.7	10	—12.2	80	n	6	2.7	.....	4 c	0	w.	.....	0	0	fair	C. A. Shaw.
Maginnis, Fort, Montana	25.29	642.4	29.84	757.9	19	— 7.2	70	w.	4	1.8	.....	.....	10 n	.....	w.	0.07	1.8	heavy snow	F. Burke.
McKavett, Fort, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thatcher.
Marquette, Michigan	29.11	739.4	29.89	759.2	9	—12.8	55	w.	12	5.4	.....	7 c	0	w.	.....	0	0	fair	J. Gilligan.
Memphis, Tennessee	29.72	754.9	30.08	764.0	43	6.1	89	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.11	739.4	29.91	759.7	23	— 5.0	73	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	W. Line.
Missoula, Fort, Montana	26.42	671.1	29.88	758.9	37	2.8	82	nw.	4	1.8	.....	.....	10 s	.....	.....	0.11	2.8	threatening	J. H. Young.
Mobile, Alabama	30.09	764.3	30.13	765.3	49	9.4	77	n.	9	4.0	.....	6 cs	4 ks	sw.	n.	1.35	34.3	cloudy	C. A. Read.
Montgomery, Alabama	29.85	758.2	30.09	764.3	47.4	8.6	82	nw.	9	4.0	.....	.....	9s;ks	.....	sw;nw.	0.06	1.5	cloudy	J. B. McLaughlin
Moorhead, Minnesota	28.79	731.3	29.90	759.4	0	—17.8	100	se.	12	5.4	.....	.....	10 s	.....	s.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	28.99	736.3	30.05	763.3	32.3	0.2	80	calm	0	0	.....	.....	10 n	.....	.....	0.28	7.1	light snow	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.54	597.9	30.17	766.3	11.0	—11.7	89	nw.	26	11.6	.....	0	0	.....	.....	0.60	15.2	clear	S. W. Beall.
Nashville, Tennessee	29.48	748.8	30.09	764.3	33.0	0.6	94	calm	0	0	.....	.....	fg.	.....	.....	0.03	0.8	dense fog	L. N. Jesunofsky.
New Haven, Connecticut	29.89	759.2	30.01	762.2	34	1.1	88	n.	7	3.1	.....	.....	10 s	.....	n.	0.30	7.6	cloudy	J. H. Sherman.
New London, Connecticut	29.96	761.0	30.01	762.2	36	2.2	89	ne.	3	1.3	.....	.....	10 s	.....	n.	0.66	16.8	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.10	764.5	30.16	766.1	51.0	10.6	80	n.	12	5.4	.....	10 c	0	w.	.....	0.09	2.3	cloudy	L. Dunne.
Newport, Rhode Island	29.95	760.7	30.00	762.0	35.0	1.7	89	n.	7	3.1	.....	.....	10 s	.....	ne.	0.53	13.5	cloudy	W. McGillivray.
New York, New York	29.84	757.9	30.04	763.0	35	1.7	69	n.	8	3.6	.....	.....	10s;fg	.....	w.	0.19	4.8	cloudy	J. B. Merrill.
Norfolk, Virginia	29.90	759.4	29.93	760.2	40	4.4	100	n.	10	4.5	.....	.....	10 n	.....	.....	0.36	9.1	light rain	Wm. Davis.
North Platte, Nebraska	26.84	681.7	29.96	761.0	18.6	— 7.4	72	calm	0	0	.....	0	6 s	.....	.....	0	0	fair	E. F. Brady.
Olympia, Washington Ty.	30.04	763.0	30.08	764.0	39.0	3.9	82	s.	6	2.7	.....	9 ck	0	w.	.....	0.91	23.1	cloudy	J. Dascomb.
Omaha, Nebraska	28.76	730.5	30.03	762.7	25.9	— 3.4	80	nw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pollak.
Ooglaamie, Alaska	30.37	771.4	30.39	771.9	—32.2	—35.7	100	ene.	8	3.6	.....	0	0	.....	.....	0	0	clear	P. H. Ray.
Oswego, New York	29.68	753.9	30.03	762.7	32.5	0.3	72	s.	5	2.2	.....	.....	10 s	.....	nw.	0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.68	753.9	30.26	768.6	42.0	5.6	74	sw.	6	2.7	.....	0	0 ,	.....	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.06	763.5	30.09	764.3	51.0	10.6	83	nw.	8	3.6	.....	.....	10 s	.....	.....	1.19	30.2	cloudy	M. McGauran.
Philadelphia, Pa	29.92	760.0	30.03	762.7	39.5	4.2	82	nw.	7	3.1	.....	.....	10s;fg	.....	n.	0.20	5.1	cloudy	T. T. Townsend.
Pike's Peak, Colorado	17.48	444.0	30.18	766.6	1	—17.2	83	w.	.....	.....	7	.....	10 s	.....	w.	0	0	cloudy	H. Hall.
Ploche, Nevada	24.15	613.4	30.35	770.9	31	— 0.6	74	w.	4	1.8	.....	10 c	0	n.	.....	0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.19	741.4	30.04	763.0	34.0	1.1	88	w	1	0.4	.....	.....	10 s	.....	.....	0.11	2.8	cloudy	W. A. Reid.
Poplar River, Montana	27.16	689.9	29.52	749.8	.....	.....	.....	ne.	.....	.....	1	.....	10 n	.....	.....	0.04	1.0	light snow	W. O. Maxwell.
Port Eads, Louisiana	30.12	765.0	30.13	765.3	53.1	11.7	90	n.	23	10.3	.....	.....	10 s	.....	n.	0.28	7.1	cloudy	H. B. Boyer.
Port Huron, Michigan	29.27	743.4	30.00	762.0	22.9	— 5.1	93	s.	12	5.4	.....	10 cs	0	.....	.....	0	0	cloudy	W. O. Bailey.
Portland, Maine	29.98	761.5	30.03	762 7	24.0	— 4.4	01	ne.	12	5.4	.....	2 c	2 s	n.	ne.	0.25	6.3	fair	W. W. Elchelberger.
Portland, Oregon	30.10	764.5	30.17	766.3	41.0	5.0	86	n.	1	0.4	.....	.....	10 s	.....	n.	1.90	48.3	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	56	13.3	100	s.	.....	.....	1	.....	10 n	.....	sw.	1.37	34.8	light rain	F. S. Coburn.
Prescott, Arizona	24.94	633.5	30.32	770.1	21.7	— 5.7	76	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Provincetown, Mass.	29.95	760.7	29.98	761.5	36	2.2	89	ne.	10	4.5	.....	.....	10 s	.....	ne.	0.67	17.0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.05	763.3	30.06	763.5	69	20.6	97	s.	7	3.1	.....	.....	10s;fg	.....	s.	0	0	cloudy	W. J. Evans.
Red Bluff, California	30.06	763 5	30.42	772.7	45	7.2	100	n.	3	1.3	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	J. R. Williams.
Rochester, New York	29.32	744.7	30.03	762.7	28	— 2.2	88	sw.	8	3.6	.....	.....	10s;hz	.....	.....	0	0	cloudy	E. W. McGann
Roseburg, Oregon	29.62	752.3	30.19	766.8	51.2	10.7	90	sw.	4	1.8	.....	.....	10 n	.....	sw.	0.10	2.5	light rain	J. J. Nanry.
Sacramento, California	30.34	770.6	30.42	772.7	49.2	9.6	93	se.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.29	744.0	29.93	760.2	39.0	3.9	86	sw.	9	4.0	.....	0	2 s	.....	sw.	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.26	768.6	30.30	769.6	— 8	—22.2	100	calm	0	0	.....	.....	10 n	.....	.....	0.30	7.6	light snow	A. P. Leavitt.
St. Paul, Minnesota	29.00	736.6	29.95	760.7	14.0	—10.0	87	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.81	731.8	29.79	756.7	2	—16.7	85	s.	19	8.5	.....	0	0	.....	.....	0	0	clear	C. B Dilley.
Salt Lake City, Utah	25.64	651.2	30.21	767.3	39	3.9	62	se.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.54	750.3	30.27	768.8	38.5	3.6	82	calm	0	0	.....	4 c	0	.....	.....	0	0	fair	T. J. Kenan.
San Diego, California	30.16	766.1	30.23	767.8	47.3	8.5	35	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.32	744.7	30.04	763.0	28	— 2.2	88	sw.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.00	762.0	30.02	762.5	33.0	0.6	88	ne.	16	7.2	.....	10 k	0	ne.	.....	0.39	9.9	cloudy	B. A. Blundou.
San Francisco, California	30.34	770.6	30.41	772.4	49	9.4	93	s.	5	2.2	.....	.....	10s;fg	.....	sw.	0.02	0.5	threatening	N. Gorom.
Santa Fé, New Mexico	23.31	592.1	30.36	771.1	17.5	— 8.1	51	n.	13	5.8	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.92	760.0	30.02	762.5	62	16.7	84	nw.	10	4.5	.....	.....	10 n	.....	nw.	0.16	4.1	light rain	H. W. Ford.
Shaw, Fort, Montana	25.96	659.4	29.82	757.4	29	— 1.7	88	nw.	8	3.6	.....	0	8 n	.....	nw.	0.15	3.8	light snow	A. L. Mathews.
Shreveport, Louisiana	29.95	760.7	30.20	767.1	39	3.9	89	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.87	733.3	30.20	767.1	31	— 0.6	68	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.41	620.0	30.27	768.8	22.6	— 5.6	76	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Sitka, Alaska	29.72	754.9	29.78	756.4	34	1.1	74	e.	6	2.7	.....	0+	4 ks	.....	e.	inap.	inap.	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.64	752.8	30.14	765.5	35.0	1.7	69	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	29.87	758.7	29.91	759.7	54	12.2	100	w.	7	3.1	.....	.....	10 n	.....	w.	0.05	1.3	light rain	O. Parker.
Spokane Falls, Wash. Ter.	27.86	707.6	30.00	762.0	34.7	1.5	80	ne.	4	1.8	.....	1 c	0	.....	.....	0.23	5.8	clear	H. Clifford.
Springfield, Illinois	29.17	740.9	29.90	759.4	38	3.3	66	s.	7	3.1	.....	.....	10 s	.....	w.	0	0	cloudy	T. B. Jennings.
Springfield, Missouri	28.58	725.9	30.10	764.5	33.0	0.6	78	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Starkville, Miss.	29.66	753.4	30.16	766.1	38	3.3	89	w.	5	2.2	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	C. Dill.
Stevenson, Fort, Dakota	27.68	703.1	29.74	755.4	10	—12.2	80	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	W. Burrows.
Stockton, Fort, Texas	27.20	690.9	30.34	770.6	25	— 3.9	76	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass.	29.99	761.7	30.05	763.3	34.0	1.1	83	n.	22	9.8	.....	.....	10 s	.....	ne.	0.53	13.5	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.53	699.2	30.36	771.1	24	— 4.4	76	calm	.....	.....	.....	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.28	743.7	30.02	762.5	29	— 1.7	77	s.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	A. Buell.
Tucson, Arizona	27.79	705.9	30.29	769.4	30	— 1.1	81	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.71	754.6	30.10	764.5	40	4.4	82	ne.	5	2.2	.....	7 c	3 s	.....	.....	0	0	cloudy	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	22.8	— 5.1	51	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.91	759.7	30.18	766.6	39.0	3.9	89	e.	2	0.9	.....	2 c	0	sw.	.....	inap.	inap.	clear	James Kenealy.
Visalia, California	30.04	763.0	30.43	772.9	39.4	4.1	82	e.	2	0.9	.....	9 cs	0	.....	.....	0	0	cloudy	O. D. Stewart.
Washakie, Fort, Wyoming	24.12	612.6	29.91	759.7	37.9	3.3	65	nw.	24	10.7	.....	0	7 k	.....	w.	0	0	fair	T. M. Ambler.
Washington, D. C.	29.92	760.0	30.04	763.0	38.8	3.8	83	n.	2	0.9	.....	.....	10 s	.....	n.	0.15	3.8	cloudy	B. M. Pursell.
West Las Animas, Colorado	25.91	658.1	30.05	763.3	16	— 8.9	70	nw.	3	1.3	.....	0	8 k	.....	w.	0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa.	29.41	747.0	30.04	763.0	35	1.7	66	e.	2	0.9	.....	0	1 k	.....	nw.	0.10	2.5	clear	B. F. Hough.
Wilmington, N. Carolina	29.85	758.2	29.91	759.7	58	14.4	100	sw.	5	2.2	.....	.....	10 n	.....	w.	0.36	9.1	light rain	Samuel A. Haney.
Winnemucca, Nevada	25.69	652.5	30.23	767.8	44	6.7	76	sw.	20	8.9	.....	.....	10 s	.....	w.	0	0	cloudy	J. Grover.
Yankton, Dakota	28.58	725.9	30.00	762.0	17	— 8.3	67	e.	4	1.8	.....	.....	10 ks	.....	.....	0.01	0.3	cloudy	J. H. Atfield.
Yuma, Arizona	30.08	764.0	30.23	767.8	40.7	4.8	63	e.	2	0.9	.....	1 c	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	21.99	558.5	.....	.....	51.0	10.6	81	calm	0	0	.....	1 c	1 ks	w.	n.	0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	70	21.1	82	n.	1	0.4	.....	0	1 s	.....	e.	0	0	fair	Robert Johnston.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	77	25.0	91	se.	.....	.....	3	6 ck	4 s	e.	.....	0.040	1.0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.37	746.0	29.93	760.2	77	25.0	89	calm	.....	.....	0	5 ck	5 ks	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.89	759.2	29.94	760.5	29	— 1.7	77	nw.	.....	.....	2	.....	4 k	.....	.....	0	0	clear	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Walloe.
York Factory, B. A.	30.12	765.0	30.19	766.8	—24.0	—31.1	.....	nw.	10	4.5	.....	2 c	0	w.	.....	0	0	fair	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Amethyst, Port Stanley, Falkland Island†	29.42	747.3	48	8.9	100	ene.			6		10					2	ene.	misty.
H. M. S. Audacious, Hong-Kong, China	29.73	755.1	73	22.8	90	sw.			3		10	sw.						squally.
H. M. S. Boadicea, S. 13° 08′, W. 9° 40′	30.13	765.3				se.			2		1							blue sky.
H. M. S. Champion, Singapore, Malay Peninsula	29.77	756.1	80	26.7	95	var.			1		4							d. clouds.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	29.75	755.6	40	4.4	91	wnw.			3–6		10							squally.
H. M. S. Comus, S. 7° 48′, W. 80° 10′	29.93	760.2	68	20.0	94	sse.			2		6	ese.				4	se.	misty.
H. M. S. Constance, S. 25° 40, W. 42° 50′	30.11	764.8	70	21.1	95	sse.			3		3					3	se.	d. clouds.
H. M. S. Curacoa, Yokohama, Japan			41.5	5.3	58	n.			1–2		0							misty.
H. M. S. Crocodile, N. 17° 49′ E. 66° 52′	30.06	763.5	75	23.9	72	ne.			2		0					sm'h		blue sky.
H. M. Dock-Yard, Bermuda, W. I.	30.20	767.1	66	18.9	83	sse.			2–3		4	sse.						d. clouds.
H. M. S. Dryad, N. 8° 00′ E. 81° 30′	29.87	758.7	80	26.7		ne.			1–2		7	ne.				2	ne.	d. clouds.
H. M. S. Eclipse, N. 18° 54′ E. 72° 49′	29.89	759.2	77	25.0		nnw.			2		2							blue sky.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.80	756.9	80	26.7	90	ne.			2		4	ne.						d. clouds.
H. M. Fawn. S. 7° 55′, W. 14° 25′						ese.			3									d. clouds.
H. M. S. Flying Fish, N. 27° 04′, E. 121° 50′	29.68	753.9	64	17.8	97	wsw.			5		9					4	cf'd	d. clouds.
H. M. S. Fox Hound, Labuan Island, Borneo	29.86	758.4	78.5	25.8		ne.			1		5	ne.						d. clouds.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.89	759.2	59	15.0	81	sw.			2		10							overcast.
H. M. S Heroine, S. 32° 20′, W. 50° 00′	30.13	765.3	74	23.3	81	ene.			3		4					3	ne.	d. clouds.
H. M. S. Himalaya, N. 13° 26′, E. 50° 24′	29.99	761.7	86	30.0	75	e.			1–2		2							blue sky.
H. M. S. Iron Duke, N. 33° 10′, E. 31° 17′	29.96	761.0	57	13.9	87	wnw.			5–6		6	w.				6	nw.	squally.
H. M. S. Kingfisher, Callao Bay, Peru	29.92	760.0	67	19.4		calm			0		10							foggy.
H. M. S. Lark, S. 34° 50′, E. 174° 49′	30.30	769.6	69.3	20.7	97	e.			2		8					sm'h		showery.
H. M. S. Magpie, N. 34° 41′ E. 135° 12′	30.18	766.6	39.5	4.2	63	calm			0		0					1	ese.	misty.
H. M. S. Monarch, Port Said, Egypt	29.93	760.2	67	19.4	60	w.			1–2		3							d. clouds.
H. M. S. Mutine, N. 21° 20′, W. 157° 00′	29.96	761.0	72.5	22.5		se.			1		5					1	se.	d. clouds.
H. M. S. Rocket, Valdivia, Chili	30.02	762.5	56	13.3	?	calm			0		5							d. clouds.
H. M. Serapis, N. 16° 49′ E. 40° 42′	29.93	760.2	78	25.6	73	nnw.			3		5					2	nnw.	d. clouds.
H. M. S. Superb, N. 35° 48′, E. 15° 08′*	30.36	771.1	56	13.3	68	nnw.			3–5		3	nw.				5	nnw.	showery
H. M. S. Swiftsure, S. 3° 41′ W. 85° 00′	29.95	760.7	89	20.6	100	se.			3		4					3	s.	d. clouds.
H. M. S. Sylvia, Tuesday Bay, Patagonia	29.78	756.4	46	7.8	85	w.			3		7							d. clouds.
H. M. S. Tourmaline, Bombay, India	29.88	758.9				nw.			3		0							blue sky.
H. M. Tyne, Sierra Leone, Africa	30.00	762.0	78	25.6	70	ese.			2		0					2	ese.	misty.
PORTUGUESE NAVAL.																		
Tamega, Macao, China	29.81	757.1	72.0	22.2	86	ssw.			5		10			2 h'r	2 h'r			misty.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla*	30.08	764.0	53	11.7	79	n.	5	2.2			8		n.	0.22	5.6			fair.
Navy Yard, Portsmouth, N. H*	30.05	763.3	29	— 1.7	?	ne.	12	5.4			10		ne.	0.3	8.			cloudy.
Naval Hospital, Yokohama, Japan*	30.05	763.3	35	1.7	52	n.			2		0			0	0			clear.
Adams, Sitka, Alaska†	29.85	758.2	31	— 0.6	90	e.			1		8		sse.					fair.
Alaska, Mare Island, Cal.	30.37	771.4	50	10.0	86	calm			0		10			0	0			cloudy.
Alliance, Aspinwall, U. S. C.	29.90	759.4	79	26.1	90	n.			2–3		8			0	0	sm'h		cloudy.
Brooklyn, S. 46° 48′, W. 63° 21′*	29.47	748.5	55	12.8	86	wsw.	25	11.2			5		w.	0	0	mod.	sw.	fair.
Colorado, New York, N. Y.	30.09	764.3	33	0.6	100	ne.	4	1.8			8		ne.	0.20	5.1			cloudy.
Enterprise, N. 25° 55′, W. 30° 20′*	30.44	773.2	69	20.6	79	ese.			4		5		se.			sm'h		fair.
Essex, Callao, Peru	29.88	758.9	68	20.0	?	calm			0		10							misty.
Franklin, Norfolk, Va.	29.89	759.2	39	3.9	81	nne.	8	3.6			10			0.33	8.4			raining.
Galena, Montevideo, Uruguay*	30.08	764.0	67	19.4	74	nne.			4		0					sm'h		clear.
Hartford, Callao, Peru*	29.84	757.9	68	20.0	94	ese.			0–1		0					sm'h	s.	foggy.
Independence, Mare Island, Cal.	30.40	772.1	48	8.9	92	sw.			1		10		sw.	0	0			misty.
Iroquois, S. 12° 13′, W. 79° 00′	29.91	759.7	73	22.8	90	sse.			2		8		se.			long	se.	fair.
Jamestown, N. 31° 22′, W. 54° 26′	30.38	771.6	68	20.0	79	sse.			3		2		s.			mod.	se.	fair.
Juniata, Malta, Mediterranean*	30.37	771.4	60	15.6	76	n.			3		2		n.	sli't	sli't			clear.
Kearsarge, Curacoa Island, W. I.	29.98	761.5	78	25.6	93	e.			2		5		e.					fair.
Lackawanna, Honolulu Sandwhich, Islands*	29.98	761.5	75	23.9	81	ne.			3		10		n.					cloudy.
Lancaster, N. 43° 02′ E. 6° 43′	30.36	771.1	64	17.8	78	nw.			1		5		w.			sm'h		fair.
Michigan, Erie, Pa.			37	2.8	80	s.			3		0							clear.
Minnesota, New York, N. Y.	30.04	763.0	33	0.6	100	ne.	3	1.3			10							hazy.
Monocacy, Nagasaki, Japan	29.92	760.0	51	10.6	64	ne.			2		10							raining.
New Hampshire, Newport, R. I.			37	2.8	100	ne.			2		10		ne.			sm'h		cloudy.
Nipsic, N. 33° 03′ W. 18° 17′	30.51	774.9	67	19.4	74	e.			1		10		ese.			long	nw.	cloudy.
Onward, Callao, Peru*†	30.04	763.0	66	18.9	94	calm			0		10		n.					foggy.
Palos, Tientsin, China*	29.99	761.7	20	— 6.7	100	n.			1		10		calm					light snow.
Pensacola, S. 8° 31′ W. 80° 09′*	29.80	756.9	70	21.1	95	se.			2		10			0	0	sm'h		cloudy.
Portsmouth, N. 27° 00′, W. 57° 38′	30.27	768.8	71	21.7	90	e.			5		2		e.			mod.	e.	fair.
Powhatan, Boston, Mass.	30.02	762.5	34	1.1	69	ne.			1		10							cloudy.
Quinnebaug, Villefranche, France	30.45	773.4	57	13.9	81	w.			1		8		calm					cloudy
Ranger, N. 30° 08′, W. 115° 54′*	30.17	766.3	58	14.4	76	calm			0		0			0	0	long	w.	clear.
Richmond, Hong-Kong, China*	29.68	753.9	72	22.2	100	sw.			4		10		sw.	0	0			misty.
Saratoga, New York, N. Y.	30.01	762.2	33	0.6	100	n.			1–2		10		n.	light	light			overcast.
St. Louis, League Island, Pa.	30.01	762.2	36	2.2	90	n.	6	2.7			*10			0.34	8.6			cloudy.
Tennessee, St. Thomas, W. I*	30.06	763.5	80	26.7	95	ne.	8	3.6			10			0.01	0.3			cloudy
Vandalia, Turk's Island, W. I*	30.10	764.5	76	24.4	85	e.			3		2		e.					fair.
Wabash, Boston, Mass.	30.03	762.7	32	0.0	89	ne.	6	2.7			10		ne.	0.08	2.0			cloudy.
Wachusetts, N. 25° 50′ W. 140° 24′	30.29	769.4	66	18.9	68	ene.			4		5		e.			mod.	w.	fair.
Wyandotte, Washington, D. C	30.01	762.2	44	6.7	92	n.			1		10		n.	0	0			cloudy.
Yantic, N. 16° 51′, W. 85° 00′	30.11	764.8	77	25.0	95	e.			3		2					long		clear.
MERCHANT MARINE.																		
S. S. Grecian, N. 23° 10′ W. 23° 00′*	30.35	770.9	71	21.7	85	e.			5		0			0	0	sm'h		clear.
S. S. Scandinavian, Boston, Mass.	29.96	761.0	31	— 0.6		ssw.			3									blue sky
S. S. Indiana, Philadelphia, Pa			42	5.6	?	ne.			4		10		ne.					cloudy.
S. S. Lord Clive, N. 42° 40′ W. 59° 52′	29.97	761.2				ne.			2		10			rain	rain	mod.	sw.	overcast.
S. S. Lord Gough, N. 48° 20′ W. 46° 16′	29.93	760.2	30	— 1.1		wsw.			2		10		sw.	snow	snow	sm'h		overcast
S. S. Ohio, N. 51° 47′, W. 8° 11′†	29.33	745.0	55	12.8	93	ssw.			6		10		s.					overcast.
S. S. Pennsylvania, Delaware River†	29.96	761.0	34	1.1	100	ne.			3		10			0	0			overcast.
S. S. Anchoria, N. 42° 46′, W. 59° 11′†	29.83	757.7				sw.			4		10		sw.	0	0	sm'h		foggy.
S. S. Bolivia, N. 46° 19′, W. 46° 25′	30.06	763.5	35	1.7	100	sw.			2		10		w.	snow	snow	sm'h		snow & hail
S. S. Dorian, N. 41° 48′, W. 35° 00′ *	30.16	766.1	58	14.4		sw.			6		10		w.	sh's	sh's	r'gh	wnw.	raining.
S. S. Utopia, N. 46° 37′, W. 45° 53′†	30.02	762.5	33	0.6		ese.			3		10			snow	snow	mod.	ne.	snowing.
S. S. Ailsa, N. 18° 13′, W. 78° 15′ †	30.10	764.5	86	30.0	92	ne.			2		2		ne.	0	0	sm'h	e.	fair.
S. S. Antillas, N. 36° 20′ W. 74° — ′						nw.			3		4		nw.			h'vy	w.	drizzling.
S. S. Ambrose, Amazon River, Brazil†	29.98	761.5	79	26.1		ne.			4		10		ne.	11 h'r	11 h'r			
S. S. Landaff City, N. 49° 36′, W. 33° 38′ *†	30.06	763.5	44	0.7		wnw.			6		7		wnw.	snow	snow	high	wnw.	snowy.
S. S. Auckland, S. 30° 57′, W. 17° 50′	30.08	764.0	77	25.0	82	nw.			5		4							blue sky.
S. S. British Merchant, N. 15° 20′, W. 123° 50′	29.98	761.5	70.8	21.6	90	ene.			6		10							raining.
S. S. Caldew, S. 34° 55′, E. 25° 54′	30.10	764.5	74	23.3	72	e.			3		0							misty.
S. S. City of Agra, S. 21° 30′, W. 28° 20′	30.08	764.0	80.2	26.8	96	ne.			5		9							d. clouds.
S. S. Scotia, N. 10° 45′, E. 58° 26′	29.89	759.2	81.1	27.3	55	ne.			4		4							d. clouds.
S. S. Lake Huron, N. 50° 49′, W., 21° 47′*	29.40	746.7	36	2.2		w.			8		8		w.	rain	rain	high	w.	
S. S. Gallia, N. 50° 52′, W. 12° 29′	29.50	749.3	52	11.1	60	w.			6		10			hail	hail	high	w.	
S. S. Marathon, N. 50° 56′ W. 15° 20′			46	7.8		wnw.			6		3		wnw.	4 h'r	4 h'r	r'gh	wnw.	fine.
S. S. Parthia, N. 45° 15′, W. 42° 26′	30.16	766.1	45	7.2	92	ese.			1		10		s.	2 h'r	2 h'r	light	nw.	raining.
S. S. Colina, N. 41° 10′, W. 54° 48 †	29.96	761.0				sw.			5		8		wsw.			long	sw.	cloudy.
S. S. Canada, N. 47° 02′, W. 42° 20′	30.17	766.3	41.0	5.0		w.			2	ok	0	w.		0	0	sm'h	nw.	covered.
S. S. Labradore, Scilly Islands*†	29.72	754.9	51.8	11.0		var.			6		8		w.	rain	rain	h'vy	wsw.	

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																	
S. S. Arizona, off Fastnet, Ireland	29.50	749.3	48	8.9	.....	wsw.	.....	.....	3	.....	4	.....	wnw.	0	0	long	w.	fair.
S. S. Wisconsin, N. 46° 56′ W. 45° 10′	29.94	760.5	30	—1.1	.....	sw.	.....	.....	2	.....	10	.....	W	0	0	sm'h	.....	cloudy.
S. S. Bohemia, Hamburg, Germany *†	29.75	755.6	.....	.....	.....	wsw.	.....	.....	8	.....	9	.....	sw.	20 h'r	20 h'r	.....	.....	stormy.
S. S. Rugia, N. 44° 37′ W. 48° 19′	29.94	760.5	37	2.8	.....	sse.	.....	.....	5	.....	10	.....	.....	2 h'r	2 h'r	4	sw.	raining.
S. S. Silesia, Hamburg, Germany	.....	.....	45.1	7.3	.....	sw.	.....	.....	7	.....	10	.....	.....	rain	rain	.....	.....	rainy.
S. S. Vandalia, Hamburg, Germany	29.63	752.6	43.9	6.6	.....	ssw.	.....	.....	6	.....	10	.....	sw.	.....	.....	.....	.....	light rain.
S. S. Mentmore, N. 40° 31′, W 54° 47′ *	30.02	762.5	.....	.....	.....	sw.	.....	.....	6	.....	8	.....	sw.	0	0	mod.	sw.	dull.
S. S. Hevelius, S. 22° 15′, W. 39° 15′†	30.14	765.5	77	25.0	.....	sse.	.....	.....	8	.....	7?	.....	s.	1 h'r	1 h'r	high	s.	clear?
S. S. Virginian, N. 42° 20′, W. 69° 10′ *	30.08	764.0	36	2.2	.....	nne.	.....	.....	5	.....	10	.....	ne.	9 h'r	9 h'r	light	ne.	hazy.
S. S. Colorado, N. 30° 22′, W. 80° 00′†	30.00	762.0	67	19.4	.....	wsw.	.....	.....	2	.....	10	.....	wsw.	12 h'r	12 h'r	mod.	sw.	cloudy.
S. S. Rio Grande, N. 34° 50′, W. 75° 00′†	29.94	760.5	.....	.....	.....	w.	.....	.....	2	.....	10	.....	sw.	6 h'r	6 h'r	mod.	se.	gloomy.
S. S. San Marcos, Galveston Bar, Texas	30.32	770.1	50	10.0	.....	nne.	.....	.....	1	.....	3	.....	n.	0	0	sm'h	.....	fine.
S. S. Archimede, Palermo, Sicily†	30.39	771.9	60	15.6	62	ne.	.....	.....	3	.....	2	.....	nne.	0	0	.....	.....	clear.
S. S. Alleghany, Baltimore, Md	.....	.....	40	4.4	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	dense fog.
S. S. Dominion, N. 46° 40′, W. 52° 13′*†	29.96	761.0	32	0.0	.....	ene.	.....	.....	4	.....	10	.....	e.	7 h'r	7 h'r	sm'h	e.	cloudy.
S. S. Chalmette, Algiers, La†	30.13	765.3	47	8.3	.....	nnw.	.....	.....	3	.....	9	.....	nnw.	2 h'r	2 h'r	.....	.....	cloudy.
S. S. Denmark, London, Eng†	29.47	748.5	.....	.....	.....	calm	.....	.....	0	.....	0?	.....	.....	0	0	.....	.....	cloudy?
S. S. Egypt, N. 41° 46′, W. 64° 15′*†	29.87	758.7	.....	.....	.....	n.	.....	.....	4	.....	10	.....	n.	8 h'r	8 h'r	h'vy	sw.	hazy.
S. S. Erin, N. 50° 26′, W. 24° 40′	29.76	755.9	36	2.2	.....	nw.	.....	.....	6	.....	4	.....	nw.	6 h'r	6 h'r	h'vy	nw.	
S. S. Greece, N. 41° 24′, W. 56° 55′	.....	.....	62	16.7	.....	sw.	.....	.....	7	.....	10	.....	sw.	12 h'r	12 h'r	long	sw.	dull.
S. S. Helvetia, Liverpool, Eng	29.35	745.5	51	10.6	.....	nw.	.....	.....	5	.....	2	.....	nw.	13 h'r	13 h'r	.....	.....	clear.
S. S. Holland, N. 40° 26′, W. 71° 38′	29.92	760.0	37	2.8	.....	nne.	.....	.....	3	.....	10	.....	ne.	16 h'r	16 h'r	sm'h	sw.	overcast.
S. S. City of Alexandria, N. 24° 10, W. 79° 52′	.....	.....	75	23.9	95	sse.	.....	.....	6	.....	6	.....	se.	2 h'r	2 h'r	mod.	se.	rainy.
S. S. City of Merida, N. 31° 09′, W. 79° 21′†	29.91	759.7	71.6	22.0	.....	sw.	.....	.....	3	.....	10	.....	sw.	1 h'r	1 h'r	light	sw.	cloudy.
S. S. Braunschweig, S. 14° 27′, W. 36° 49′	29.90	759.4	77.0	25.0	86	ne.	.....	.....	6	.....	10	.....	ne.	10 h'r	10 h'r	cross	ne.	rainy.
S. S. Gen. Werder, N. 48° 30′, W. 30° 25′	30.06	763.5	.....	.....	.....	w.	.....	.....	5–6	.....	7	.....	w.	hail	hail	r'gh	wnw.	fair.
S. S. Hermann, N. 49° 46′, W. 8° 42′	29.61	752.1	50	10.0	.....	wnw.	.....	.....	4	.....	8	.....	wnw.	5 h'r	5 h'r	6	wnw.	clearing.
S. S. Hohenstaufen, N. 19° 23′ W. 23° 57′	30.17	766.3	68.0	20.0	.....	ne.	.....	.....	5	.....	0	.....	.....	0	0	mod.	ne.	clear.
S. S. Hohenzollern, N. 11° 18′, W. 27° 05′	30.07	763.8	.....	.....	.....	ene.	.....	.....	5	.....	0	.....	.....	.....	.....	mod.	ene.	fair.
S. S. Main, N. 40° 30′, W. 68° 34′	29.93	760.2	39.2	4.0	.....	n.	.....	.....	3	.....	8	.....	.....	12 h'r	12 h'r	long	sw.	cloudy.
S. S. Neckar, N. 49° 33′, W. 11° 55′	29.71	754.6	43.3	6.3	75	w.	.....	.....	6	.....	3	.....	w.	8 h'r	8 h'r	r'gh	w.	fair
S. S. Salier, N. 40° 48′ W. 68° 06′	29.97	761.2	38	3.3	.....	ne.	.....	.....	4	.....	10	.....	ne	7 h'r	7 h'r	long	sw.	cloudy.
S. S. Arabic, N. 35° 57′, W. 176° 16′ *†	30.36	771.1	51	10.6	93	var.	.....	.....	1	.....	2	.....	wnw.	0	0	sm'h	.....	clear.
S. S. Belgic, N. 22° 15′, E. 114° 30′*†	29.72	754.9	70	21.1	80	s.	.....	.....	2	.....	10	.....	s.	0	0	mod.	e.	cloudy
S. S. Gaelic, N. 24° 42 , E. 120° 29′	29.74	755.4	62	16.7	94	sw.	.....	.....	3	.....	10	.....	w.	2 h'r	2 h'r	.....	.....	foggy.
S. S. Oceanic, San Francisco, Cal†	30.49	774.4	57	13.9	87	wsw.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	cloudy.
S. S. City of Augusta, New York, N. Y†	30.13	765.3	.....	.....	.....	nne.	.....	.....	3	.....	10?	.....	.....	0	0	.....	.....	clear?
S. S. Mississippi, Portland, Oregon*†	30.25	768.3	45	7.2	.....	s.	.....	.....	2	.....	10	.....	s.	.....	.....	.....	.....	cloudy.
S. S. Oregon, off Fort Stevens, Oregon†	30.16	766.6	40	4.4	91	calm	.....	.....	0	.....	5	.....	sw.	.....	.....	.....	.....	fair
S. S. Ancon, San Pedro Bay, Cal †	30.21	767.3	47	8.3	55	n.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. City of Chester, San Francisco, Cal *†	30.41	772.4	50	10.0	86	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	foggy.
S. S. G. W. Elder, Seattle, Wash. Ter†	30.09	764.3	42	5.6	83	e.	.....	.....	1	.....	4	.....	.....	6 h'r	6 h'r	.....	.....	
S. S. Queen of the Pacific, Portland, Oregon †	30.17	766.3	.....	.....	.....	ese.	.....	.....	.....	.....	9	.....	.....	.....	.....	.....	.....	cloudy.
S. S. State of California, N. 46° 00′, W. 124° 10′†	30.22	767.6	44	6.7	84	nnw.	.....	.....	3	.....	5	.....	n.	0	0	long	sw.	cloudy.
S. S. Victoria, San Francisco, Cal *†	30.42	772.7	50	10.0	.....	sse.	.....	.....	3	.....	2	.....	ssw.	.....	.....	.....	.....	foggy.
S. S. Australia, S. 5° 36′, W. 168° 15′*†	29.65	753.1	80	26.7	78	e.	.....	.....	3	.....	3	.....	e.	0	0	mod.	e.	clear.
S. S. City of Pekin, N. 30° 03′ E. 151° 57′ †	29.94	760.5	56	13.3	81	n.	.....	.....	6	.....	8	.....	n.	.....	.....	long	nnw.	fair.
S. S. City of Rio de Janeiro, La Libertad, San Salv'r.†	30.18	766.0	76	24.4	77	n.	.....	.....	1	.....	0	.....	.....	0	0	light	s.	clear.
S. S. City of Sydney, Sydney, N. S. W †	29.97	761.2	71	21.7	80	w.	.....	.....	3	.....	8	.....	w.	0	0	sm'h	.....	cloudy.
S. S. City of Tokei, N. 32° 26′, E 159° 23′†	29.78	756.4	57	13.9	81	nnw.	.....	.....	5	.....	10?	.....	nne.	light	light	h'vy	nnw.	clear?
S. S. Colon, N. 24° 09′, W. 73° 57′†	30.13	765 3	76	24.4	.....	e.	.....	.....	4	.....	8	.....	e.	0	0	small	e.	fair.
S. S. Grenada, Panama, Panama †	29.88	758.9	76	24.4	82	nw.	.....	.....	2	.....	2	.....	nw.	0	0	sm'h	nw.	clear.
S. S. San José, N. 31° 18′, W. 117° 38′*†	30.24	768.1	.....	.....	.....	nnw.	.....	.....	3	5 0?	0	.....	.....	0	0	hv'y	wnw.	clear.?
S. S. Zealandia, S. 34° 59′, E. 173° 08′ *	30.22	767.6	71	21.7	90	nne.	.....	.....	4	.....	5	.....	n.	.....	.....	.....	.....	gloomy.
S. S. Caracas, N. 34° 12′ W. 71° 54′ †	30.03	762.7	71.5	21.9	90	sw.	.....	.....	6	.....	8	.....	w.	10 h'r	10 h'r	r'gh	sw.	threatening.
S. S. Claudius, Colon, U. S. C. †	30.02	762.5	79.5	26.4	82	nne.	.....	.....	2	.....	7	.....	n.	0	0	long	n.	cloudy.
S. S. Valencia, Curacoa, W. I †	30.07	763.8	79	26.1	74	ne.	.....	.....	5	.....	2	.....	ne.	0	0	.....	.....	fair.
S. S. Belgenland, Staten Island, N. Y	.....	.....	33	0.6	80	n.	.....	.....	4	.....	6	.....	w.	6 h'r	6 h'r	sm'h	.....	foggy.
S. S. Penniand, N. 40° 56′, W. 62° 30′	29.84	757.9	59	15.0	94	wsw.	.....	.....	4	.....	10	.....	.....	4 h'r	4 h'r	long	sw.	cloudy.
S. S. Rhynland, N. 49° 52′, W. 17° 00′	29.79	756.7	45	7.2	100	nw.	.....	.....	6	.....	6	.....	n	.....	.....	long	.....	squally.
S. S. Switzerland, N. 49° 04′, W. 39° 35′†	30.06	763.5	.....	.....	.....	wsw.	.....	.....	4	.....	10	.....	wnw.	snow	snow	mod.	wsw.	cloudy.
S. S. Waesland, N. 50° 08′, W. 3° 05′	29.61	752.1	50	10.0	.....	sw.	.....	.....	6	.....	10	.....	sw.	9 h'r	9 h'r	r'gh	sw.	heavy rain.
S. S. Leerdam, N. 45° 55′, W. 49° 16′ *	29.98	761.5	38.5	3.6	86	sse.	.....	.....	3	.....	10	.....	sw.	rain	rain	sm'h	n.	sleeting.
S. S. Maas, Rotterdam, Holland	.....	.....	42.8	6.0	.....	sw.	.....	.....	5	.....	5	.....	ne.	2 h'r	2 h'r	.....	.....	rainy.
S. S. Schiedam, N. 45° 21′, W. 47° 57′	29.93	760.2	50.0	10.0	86	e.	.....	.....	3	.....	10	.....	.....	8 h'r	8 h'r	mod.	ese.	heavy rain.
S. S. W. A. Scholten, N. 49° 40′, W. 5° 18′	29.64	752.8	51.9	11.1	100	sw.	.....	.....	2	.....	10	.....	sw.	8 h'r	8 h'r	high	nw.	stormy.
S. S. Zaandam, N. 48° 30′, W. 32° 00′	30.03	762.7	51	10.6	.....	wnw.	.....	.....	6	.....	5 k	.....	w.	snow	snow	5	w.	squally.
S. S. State of Florida, N. 44° 04′, W. 50° 42′	.....	.....	42	5.6	.....	ssw.	.....	.....	3	.....	10	.....	.....	6 h'r	6 h'r	mod.	ne.	hazy.
S. S. State of Georgia, N. 47° 21′, W. 45° 12 ††	30.05	763.3	31	—0.6	.....	sw.	.....	.....	3	.....	10	.....	sw.	.....	.....	sli't	nw.	cloudy.
S. S. State of Indiana, N. 55° 17′, W. 12° 00′ †	29.14	740.1	40	4.4	.....	wnw.	.....	.....	6	.....	4	.....	wnw.	8 h'r	8 h'r	r'gh	cross	clearing.
S. S. Iowa, N. 51° 33′, W. 8° 45′ *†	29.64	752.8	51	10.6	.....	wsw.	.....	.....	5	.....	2	.....	wsw.	11 h'r	11 h'r	con.	wsw.	clear.
S. S. Britannic, N. 51° 04′, W. 23° 26′†	29.74	755.4	45	7.2	92	w.	.....	.....	7	.....	5	.....	wnw.	sleet	sleet	con	var.	fair.
S. S. Republic, N. 42° 24′, W. 52° 35′†	30.06	763.5	54	12.2	93	sw.	.....	.....	6	.....	10	.....	wsw.	2 h'r	2 h'r	2	.....	drizzling.
S. S. Marengo, N. 44° 00′, W. 52° 30′	.....	.....	.....	.....	.....	sw.	.....	.....	4	.....	10	.....	sw.	24 h'r	24 h'r	mod.	sw.	rain & fog.
S. S. Otranto, N. 45° 19′, W. 57° 13′ †	30.01	762.2	33	0.6	.....	nw.	.....	.....	3	.....	10	.....	nw.	.....	.....	sm'h	nw.	light rain.
S. S. Romano, New York, N. Y	.....	.....	34	1.1	.....	n.	.....	.....	3	.....	9	.....	.....	14 h'r	14 h'r	.....	.....	cloudy.
S. S. Salerno, N. 47° 22′, W. 33° 17′	30.32	767.6	43	6.1	.....	wsw.	.....	.....	2	.....	7	.....	nw.	0	0	r'gh	nw.	fine.
S. S. Catherine Whiting, Delaware Bay†	30.03	762.7	.....	.....	.....	n.	.....	.....	1	.....	.....	.....	n.	.....	.....	.....	.....	
S. S. Norman, N. 42° 23′, W. 71° 05′ †	30.01	762.2	.....	.....	.....	nne.	.....	.....	1	.....	.....	.....	n.	snow	snow	.....	.....	cloudy.
S. S. Saxon, N. 39° —′, W. 75° 07′†	29.98	761.5	34	1.1	.....	n.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....	dense fog.
MISCELLANEOUS.																		
Bg. Abbie Clifford, Havana, Cuba, W. I†	30.08	764.0	70	21.1	.....	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	.....	
Schr. Abbie H. Gheen, Spring Wood Mills, S. C†	29.97	761.2	62	16.7	.....	w.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	raining.
Bg. Alcira, N. 12° 32′, W. 69° 42′	29.99	761.7	.....	.....	.....	ese.	.....	.....	5	.....	6?	.....	e.	0	0	mod.	ne.	clear?
Bk. Alpha, Demerara, Brit. Guiana*†	29.97	761.2	80	26.7	.....	e.	.....	.....	2	.....	5?	.....	.....	6 h'r	6 h'r	.....	.....	cloudy?
Schr. Annie A. Holton, Tampico, Mexico†	30.19	766.8	68	20.0	.....	n.	.....	.....	5	.....	8	.....	n.	0	0	sm'h	.....	fair.
Bg. Annie R. Storer, S. 22° 16′, W. 35° 00′*	30.15	765.8	.....	.....	.....	nnw.	.....	.....	5	.....	10	.....	w.	24 h'r	24h'r	long	ssw.	light rain.
Bk. Anna Thormann, S. 6° 55′ W. 18° 17′	30.05	763.3	79.7	26.5	76	e.	.....	.....	4	.....	1 k	.....	e.	e	o	light	se.	clear.
S. S. Antonio Lopez, Cadiz, Spain	30.42	772.7	60	15.6	71	se.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
Bg. Arthur, S. 30° 22′, W. 49° 00′ *†	30.23	767.8	.....	.....	.....	nne.	.....	.....	4	.....	2	.....	s.	o	*o	mod.	s.	
Schr. Annie R. Lewis, N. 14° 55′. W. 61° 10′†	30.13	765.3	80	26.7	.....	ene.	.....	.....	5	.....	5	.....	ene.	shr's	shr's	mod.	nne.	fair.
Bk. B. F. Watson, Hong Kong, China†	29.69	754.1	68	20.0	.....	n.	.....	.....	3	.....	3	.....	nnw	o	o	.....	.....	d. clouds.
Bkt. Bonny Doon, N. 25° 46′, W. 42° 22′*†	30.26	768.6	.....	.....	.....	e.	.....	.....	1–3	.....	5?	.....	e.	sq 'lls	sq'lls	mod.	ese	cloudy?
Bk. Bremen, N. 22° 42′, W. 46° 22′*	30.20	767.1	.....	.....	.....	e.	.....	.....	5	.....	4	.....	e.	o	o	mod.	var.	fair.
Bk. Champion, Marcus Hook, Pa †	29.92	760.0	49	9.4	.....	wsw.	.....	.....	3	.....	10	.....	wsw.	16 h'r	16 h'r	.....	.....	hazy.
Bk. Commerce, Cadiz, Spain †	30.36	771.1	62	16.7	.....	sse.	.....	.....	2	.....	2	.....	s.	o	o	.....	.....	fine.
S. Cornelius, N. 56° 28′, E. 2° 52′ *†	29.28	743.7	44.4	6.9	.....	wsw.	.....	.....	6	.....	5	.....	wnw.	8 h'r	8 h'r	h'vy	sw.	squally.
Bkt. C. S. Bushnell, N. 36° 50′, W. 52° 50′	.....	.....	.....	.....	.....	sw.	.....	.....	5	.....	8	.....	wsw.	o	o	sm'h	w.	fine.
S. S. D. J. Foley, N. 18° 49′, W. 74° 16′*†	30.02	762.5	83	28.3	96	ne.	.....	.....	2	.....	0	.....	.....	o	o	mod.	ene.	clear.
S. E. B. Sutton, N. 9° 45′, W. 30° 25′ †	30.06	763.5	70	24.4	84	ene.	.....	.....	5	.....	5	.....	ene.	o	o	mod.	ene.	fair.
Bk. E. D. Bigelow, N. 41° 02′, W. 31° 08′*†	30.20	767.1	.....	.....	.....	w.	.....	.....	0	.....	8	.....	w.	o	o	con	nw.	squally.
Schr. Edith R. Seward, N. 23° 30′, W. 68° 20′ †	30.15	765.8	78	25.6	.....	e.	.....	.....	3	.....	4	.....	e.	o	o	mod.	ese.	clear.
Bk. Edmund Phinney, S. 35° 05′, W. 49° 41′†	30.23	767.8	.....	.....	.....	ne.	.....	.....	3	.....	4	.....	ne.	o	o	long	s.	fair.
S. E. J. Spicer, N. 48° 04′, W. 18° 26′	29.91	759.7	50	10.0	93	nw.	.....	.....	6	.....	10	.....	nw.	8 h'r	8 h'r	high	nw.	snowy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Force.	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Bk. E. L. Pettingill, S. 55° 40′, W. 64° 40′ *†	29.60	751.8	44	6.7	.....	sw.	.....	.....	2	.....	2	.....	sw.	0	0	sm'h	sw.	clear.
Bk. Essex, S. 18° 57′, E. 39° 09′ *†	29.73	755.1	78	25.6	.....	sse.	.....	.....	8	.....	.....	.....	.....	rain	rain	.....	s.	hazy.
Schr. F. E. McDonald, Jacksonville, Florida†	30.00	762.0	67	19.4	.....	ssw.	.....	.....	.....	.....	10	.....	.....	0	0	.....	.....	fine.
S. Festina Lente, N. 55° 52′, E. 3° 25′	29.14	740.1	43	6.1	.....	wsw.	.....	.....	7	.....	9	.....	wsw.	sleet	sleet	mod.	sw.	cloudy.
U.S. F. C. S. S. Fish Hawk, Washington, D. C †	30.07	763.8	41	5.0	82	calm	.....	.....	0	.....	10	.....	calm	.....	.....	.....	.....	cloudy.
S. S. Foscolia, London, Eng	.....	.....	.....	.....	.....	wsw.	.....	.....	11	.....	10	.....	.....	16 h'r	16 h'r	.....	.....	raining.
Bk. Freya, Matanzas, Cuba, W. I	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	1	.....	ne.	0	0	.....	.....	hazy
S. Geo. Stetson, S. 33° —′, W. 51° —′ *†	30.12	765.0	73	22.8	76	ne.	.....	.....	6	.....	0	.....	.....	0	0	chop	nw.	clear.
S. Grecian, N. 16° 20′, W. 37° 25′†	30.17	766.3	75	23.9	68	ene.	.....	.....	6	.....	5	.....	e.	0	0	mod.	e.	fair.
Bk. Grey Eagle, S. 4° 35′, W. 34° 55′ *†	29.85	758.2	.....	.....	.....	ne.	.....	.....	2	.....	0	.....	.....	0	0	long	nne.	clear.
Bk. Gronsvaer, Auckland, N. Z	30.28	769.1	76.0	24.4	.....	nw.	.....	.....	2	.....	5	.....	nw.	3 h'r	3 h'r	.....	.....	misty.
Bk. Hattie G. McFarland, N. 14° 02′, W. 65° 49′ *†	30.15	765.8	78	25 6	.....	ene.	.....	.....	4	.....	4	.....	e.	0	0	short	e.	
Schr Hattie Weston, Cedros, W. I *†	30.05	763.3	78	25.6	.....	e.	.....	.....	2	.....	5	.....	e.	0	0	mod	nnw.	fair.
Bk. Heinrich & Tonio, N. 29° 22′, W. 47° 00′	.....	.....	67	19.4	.....	e.	.....	.....	4	.....	10	.....	e.	0	0	mod.	e.	cloudy.
Bk. Horace Scudder N. 32° 58′, W. 64° 16′ *†	30.25	768.3	66	18.9	.....	ssw.	.....	.....	5	.....	8	.....	.....	.....	.....	lum'y	sw.	fine.
Schr. Isabel Alberto, New York, N. Y †	30.08	764.0	.....	.....	.....	ne.	.....	.....	4	.....	10	.....	n.	rain	rain	.....	.....	cloudy.
Schr. James Slater, N. 7° 36′, W. 45° 05′ *†	29.98	761.5	80	26.7	.....	ne.	.....	.....	6	.....	5	.....	ene.	0	0	mod.	ne.	hazy.
Bk. Johanne, N. 19° 09′, W. 50° 39′ *†	30.12	765.0	78	25.6	.....	ene.	.....	.....	2	.....	8	.....	nne.	0	0	mod	ne.	fine.
Schr. John L. Thomas, Vivorilla Cays, C. A *†	30.10	764.5	.....	.....	.....	ene.	.....	.....	3	.....	1	.....	ene.	0	0	.....	.....	clear.
Bkt. Josephine, S. 36° 28′, W. 8° 02′†	30.09	764.3	75	23.9	77	n.	.....	.....	5	.....	0	.....	.....	0	0	mod.	wnw.	hazy.
S. S. J. W. Wilson, Off Cavallo Pass, Texas *†	30.18	766.6	58	14.4	.....	nw.	.....	.....	2	.....	10	.....	w.	0	0	sm'h	.....	fair.
Light House Tender Laurel, Key West, Fla †	30.06	763.5	74	23.3	.....	sse.	.....	.....	1	.....	3	.....	s.	0	0	.....	.....	clear.
Bg. Lilian, N. 32° 12′, W. 74° 05′†	30.10	764.5	73	22.8	.....	sw.	.....	.....	6	.....	9	.....	sw.	¼ h'r	¼ h'r	r'gh	var.	cloudy.
Bk. Louise Adelaide, Matanzas, Cuba, W. I	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	4	.....	e.	0	0	sm'h	.....	fine.
Bg. L. & W. Armstrong, N. 37° 38′, W. 69° 15′ *†	30.00	762.0	.....	.....	.....	nne.	.....	.....	2	.....	10	.....	.....	2 h'r	2 h'r	long	sw.	threatening.
S. S. Malabar, N. 36° 01′, W. 62° 53′ *†	30.10	764.5	.....	.....	.....	ssw.	.....	.....	7	.....	hz.	.....	sw.	0	0	h'vy	sw.	cloudy.
Bg. Mary A. Troop, N. 49° 28′, W. 11° 00′ *†	29.58	751.3	.....	.....	.....	wnw.	.....	.....	6	.....	5	.....	nw.	12 h'r	12 h'r	cross	var.	threatening.
Schr. Minnie A. Bonsall, Mayport, Fla †	30.06	763.5	68	20.0	.....	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
S. M. P. Grace, S. 9° 37′, W. 31° 49′ *	29.92	760.0	80	26.7	.....	nne.	.....	.....	2	.....	3	.....	n.	sli't	sli't	sm'h	nne.	
Bg. Myrtle, N. 16° 06′, W. 60° 55′ *†	29.95	760.7	.....	.....	.....	ene.	.....	.....	6	.....	2	.....	ene.	0	0	long	ne.	fair.
Bkt. Norena, Matanzas, Cuba, W. I *†	30.16	766.1	.....	...	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	mod.	ne.	fine.
Schr. Ocean Traveler, St. John's, Antigua, W. I*	30.05	763 3	.....	.....	.....	ene	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	fair.
Bk. Ottawa, Alicante Harbor, Spain*	30.40	772.1	58	14.4	.....	sw.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
S. Paramita, San Francisco, Cal†	30.45	773.4	47	8.3	.....	se.	.....	.....	3	.....	.....	.....	.....	0	0	.....	.....	clear.
Schr. Pearl Nelson, N. 17° 23′ W. 70° 30′ *†	30.02	762.5	.....	.....	.....	ene.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
S. S. Raleigh, Off Cape Jupiter, Fla *†	30.02	762.5	74	23.3	.....	w.	.....	.....	1	.....	1	.....	w.	0	0	sm'h	.....	fair.
Bk. Reindeer, Martinique, W. I*	30.16	766.1	.....	.....	.....	ene.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	squally.
S. Rudolph, N. 41° 45′ W. 29° 24′	.....	.....	52.0	11.1	.....	wnw.	.....	.....	6	.....	6	.....	wnw.	4 h'r	4 h'r	long	wnw.	squally.
S. Sacramento, S. 35° 26′, W. 23° 10′ *†	30.11	764.8	70	21.1	75	s.	.....	.....	7	.....	8	.....	sse.	16 h'r	16 h'r	con.	.....	cloudy.
Bk. Saga, N. 39° 54′, W. 56° 29′	.....	.....	65	18.3	.....	ssw.	.....	.....	8	.....	9	.....	var.	½ h'r	½ h'r	8	var.	cloudy.
Schr. S. B. Hubbard, Mayport, Fla *†	30.05	763.3	70	21.1	.....	n.	.....	.....	1	.....	10	.....	.....	3 h'r	3 h'r	.....	.....	showery.
Bk. Southern Belle, N. 33° 40′, W. 73° 15′ *†	30.00	762.0	70	21.1	.....	ssw.	.....	.....	6	.....	8	.....	ssw.	0	0	r'gh	ssw.	cloudy.
S. Sovereign of the Seas, S. 28° 30′, W. 127° 03′ *†	30.30	769.6	72	22.2	90	e.	.....	.....	4	.....	1	.....	e.	0	0	long	sw.	clear.
Bk. Sunbeam, Lisbon, Portugal *†	30.41	772.4	52	11.1	86	ene.	.....	.....	3	.....	8	.....	ene.	0	J	.....	.....	cloudy.
S. Titan, N. 0° 14′, W. 30° 16′ *†	30.00	762.0	81	27.2	87	ese.	.....	.....	4	.....	1	.....	ese.	0	0	sm'h	ese	fine.
Bk. Wandering Jew, Montevideo, Uruguay †	30.12	765.0	69	20.6	.....	n.	.....	.....	7	.....	4	.....	n.	0	0	.....	.....	clear.
Bk. Winifred, N. 19° 58′, W. 39° 40′ *†	30.20	767.1	.....	.....	.....	var.	.....	.....	.....	.....	.....	.....	ese.	0	0	.....	e.	
Schr. Wm. Wiler, Pointe a Pitre, Guadeloupe †	30.01	762.2	.....	.....	.....	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	fine.
Bk. Xenia, N. 0° 13′, W. 28° 11′ *†	30.04	763.0	82	27.8	.....	ese.	.....	.....	6	.....	1	.....	ese.	0	0	sm'h	ese.	clear.

International Chart I. January 29, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B.Hazen. Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 30, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours	.....	.....	30.45	773.4	62.2	16.8	83	s.	.....	.....	4	.....	2	.....	.....	0	0	fair	Malaterre.
Algiers	.....	.....	30.37	771.5	64.4	18.0	49	sw.	.....	.....	5	.....	8	.....	.....	0.051	1.3	very cloudy	Thève.
La Calle	.....	.....	30.35	771.0	58.6	14.8	83	w.	.....	.....	2	.....	2	.....	.....	0	0	fair	Fonfréde.
Tunis	.....	.....	30.47	774.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.51	774.9	66.6	19.2	64	w.	.....	.....	2	.....	2	.....	.....	0	0	fair	Pérès.
Tebessa	.....	.....	30.48	774.1	63.7	17.6	67	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dognon.
Geriville	.....	.....	.....	.....	60.8	16.0	17	w.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Lonchamp.
Laghouat	.....	.....	30.41	772.4	56.5	13.6	58	s.	.....	.....	1	.....	2	.....	.....	0	0	fair	Abraham.
Biskra	.....	.....	30.48	774.2	64.4	18.0	23	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.91	759.7	30.00	762.0	60.0	15.6	58	sw.	15	6.7	.....	.....	2	.....	.....	0	0	very fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.39	746.5	29.95	760.7	47.1	8.4	53	sw	.....	.....	6	.....	6	.....	.....	0	0	.....	Prof. Ivan Stožir.
Cracow, I. R Observatory	28.97	735.8	29.74	755.5	44.6	7.0	77	se.	1.3	0.6	.....	.....	10	.....	.....	0.004	0.1	.....	Dr. Wierzbiski.
Eperies	29.10	739.1	30.01	762.3	35.2	1.8	84	s.	.....	.....	5	.....	10 s	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.58	725.8	29.85	758.3	39.2	4.0	68	s.	.....	.....	2	.....	7	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.63	727.1	30.11	764.9	35.2	1.8	82	se.	.....	.....	2	.....	3	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.45	722.6	29.83	757.7	36.3	2.4	87	calm	.....	.....	0	.....	8	.....	.....	0.091	2.3	gloomy	The Staff.
Lemberg	28.90	734.0	29.92	759.9	37.6	3.1	71	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.49	672.9	29.93	760.1	36.3	2.4	72	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	29.97	761.1	30.08	764.0	51.1	10.6	68	s.	.....	.....	1	.....	5	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.58	751.2	30.04	762.9	38.1	3.4	63	e.	.....	.....	1	.....	5	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.74	755.3	30.03	762.7	40.6	4.8	59	s.	.....	.....	4	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.00	762.1	30.10	764.6	46.4	8.0	69	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Royal Academy.
Vienna	29.15	740.3	29.89	759.1	37.9	3.3	73	calm	.....	.....	0	.....	9	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.05	737.9	29.15	740.4	37.6	3.1	58	wsw.	22	9.8	.....	.....	6	.....	.....	0	0	d. clouds	W. Boswell
Armagh, Observatory	29.27	743.4	29.50	749.3	37.0	2.8	88	wsw	12	5.4	.....	.....	10	.....	.....	.....	.....	gloomy	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.44	747.8	41.4	5.2	78	wsw.	42	18.8	.....	.....	4	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	28.91	734.3	29.44	747.8	37.6	3.1	85	w.	24	10.7	.....	.....	9	.....	.....	.....	.....	squally	Thomas Mackereth.
Bradford, Yorkshire	28.98	736.1	29.38	746.2	38.7	3.7	83	w.	.....	.....	3	.....	6	.....	.....	0.05	1.3	raining	McLandsborough & Preston.
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	80.0	26.7	74	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington	.....	.....	.....	.....	42.0	5.6	83	w.	.....	.....	2.0	.....	4	.....	.....	.....	.....	snow & hail	John McLaren.
Chatham, School M. E.	29.53	750.0	29.66	753.4	44.7	7.1	65	sw.	.....	.....	1	.....	6	.....	.....	blank	blank	d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.58	751.3	29.82	757.4	40.5	4.7	73	w.	.....	.....	5	.....	9	.....	.....	.....	.....	hailing	The Staff.
Fort Napier, Natal	27.66	702.6	29.88	758.9	76.0	24.4	62	e.	.....	.....	1	.....	7	.....	.....	.....	.....	.....	Corpl. F. Milner, A. H. C.
Galway	29.51	749.5	29.55	750.6	42	5.6	75	w.	.....	.....	3	.....	5	.....	.....	0.16	4.1	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	.....	.....	.....	.....	57.8	14.3	94	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	d. clouds	Sgt. J. Norris, A. H. C.
Glasgow, Observatory	29.12	739.6	29.32	744.7	37.4	3.0	85	w.	.....	.....	4	.....	8	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.48	748.8	29.65	753.1	42.0	5.6	69	wsw.	.....	.....	5	.....	3	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.49	749.0	29.79	756.7	43.0	6.1	83	w.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	A. Collenette, F. M. S
Kew, Observatory	29.62	752.3	29.66	753.4	41.2	5.1	71	sw.	16	7.2	.....	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.28	743.7	29.54	750.3	42.0	5.6	65	sw.	.....	.....	2	.....	2	.....	.....	.....	.....	blue sky	J. C. Smith.
Malta, Mediterranean	30.18	766.6	30.26	768.6	66.2	15.7	92	sw.	.....	.....	2	.....	2	.....	.....	0	0	blue sky	Corpl. Keene, A. H. C
Nassau, Bahamas	30.06	763.5	30.11	764.8	70.0	21.1	98	se.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.99	736.3	29.52	749.8	41.7	5.4	79	sw.	.....	.....	7	.....	6	.....	.....	.....	.....	d. clouds	Rev. Jas. W. Browne
Oxford, Radcliffe Obs'y	29.38	746.2	29.61	752.1	41.0	5.0	83	sw.	.....	.....	6	.....	2	.....	.....	.....	.....	squally	The Staff.
Plymouth	29.69	754.1	29.76	755.9	42.2	5.7	81	w.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Mause, Orkneys	28.90	734.0	29.00	736.6	39.1	3.9	90	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	snowy	Rev. C. Clouston, L. L. D.
Scutari Cemetery, Turkey	30.11	764.8	30.18	766.6	41.2	5.1	87	ne.	.....	.....	1	.....	10	.....	.....	blank	blank	misty	W. H. Lyne.
Sheffield	29.12	739.6	29.40	746.7	40.9	4.9	73	sw.	.....	.....	6	.....	2	.....	.....	0.04	1.0	d. clouds	W. F. Cooper.
Sillioth Rectory	29.33	745.0	29.36	745.7	38.8	3.8	83	w.	.....	.....	4	.....	7	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.44	747.8	38.0	3.3	82	w.	30	13.4	.....	.....	10	.....	.....	.....	.....	raining	Rev. S. J. Perry.
Stratfield Turgiss	29.45	748.0	29.68	753.9	42.1	5.6	79	w.	.....	.....	3	.....	3	.....	.....	.....	.....	squally	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	29.76	755.9	29.80	756.9	46	7.8	69	w.	.....	.....	6	.....	5	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.73	755.1	29.76	755.9	40.0	4.4	70	wsw.	19	8.5	.....	.....	7	.....	.....	blank	blank	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	— 3	—19.4	.....	calm	0	0	.....	.....	10 n	.....	.....	0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.05	763.3	30.09	764.3	11	—11.7	100	n.	0	2.7	.....	.....	10 s	.....	calm	0	0	hazy	H. J. Cundall, C. E
Chatham, N. B*	30.11	764.8	30.18	766.6	— 4	—20.0	100	calm	0	0	.....	.....	hz.	.....	.....	0	0	dense haze	G. A. Blair.
Cornwall	29.86	758.4	30.06	763.5	17.8	— 7.9	97	e.	.....	.....	1	.....	10 s	.....	.....	0	0	overcast	Jas. Smith, M. A.
Dalhousie	30.11	764.8	30.17	766.3	— 7.5	—21.9	.....	calm	.....	.....	0	.....	10	.....	.....	0	0	foggy	H. A. Johnson.
Father Point, Quebec*	30.06	763.5	30.09	764.3	14	—10.0	91	sw.	10	4.5	.....	.....	10 s	.....	w.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.15	739.9	30.04	763.0	0	—17.8	76	ne.	21	9.4	.....	.....	10 s	.....	ne.	0.01	0.3	clear	James Stewart.
Fredericton	30.10	764.5	30.17	766.3	— 3.9	—19.9	100	nw.	1.0	0.4	.....	.....	10 s	.....	.....	inap.	inap.	overcast	Prof. Harrison, L. L. D.
Granton	28.88	733.5	30.02	762.5	31.0	— 0.6	100	s.	2	0.9	.....	.....	10 n	.....	.....	0	0	overcast	Jas. Grant.
Halifax, N. S*	29.88	758.9	30.02	762.5	19	— 7.2	91	w.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	A. Allison.
Hamilton	29.52	749.8	29.92	760.0	33.7	0.9	84	sw.	.....	.....	1	10 ck	0	sw.	.....	0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.69	754.1	30.05	763.3	13	—10.6	91	s.	3	1.3	.....	0	2 s	.....	s.	0	0	hazy	A. P. Knight, M. A
Montreal, Quebec*	29.88	758.9	30.10	764.5	18	— 7.8	91	se.	6	2.7	.....	.....	10 n	.....	.....	0	0	cloudy	C. H. McLeod, C. E.
Ottawa	29.80	756.9	30.00	763.5	22.5	— 5.3	96	calm	.....	.....	0	.....	10 s	.....	.....	0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.19	741.4	29.93	760.2	21	— 0.1	84	s.	7	3.1	.....	1	10 n	.....	se.	0.01	0.3	cloudy	Rev. R. Mosley.
Peterboro	29.23	742.4	30.02	762.5	23.4	— 4.8	86	e.	.....	.....	1	.....	10 n	.....	.....	0	0	snowing	J. Dixon, B. A.
Port Dover, Ontario	29.23	742.4	29.95	760.7	32	0.0	89	s.	6	2.7	.....	.....	10 cs	.....	s.	0.01	0.3	cloudy	H. Morgan.
Port Stanley, Ontario	29.26	743.2	29.93	760.2	32	0.0	92	se.	5	2.2	.....	.....	10 n	.....	se.	0.02	0.5	cloudy	M. Payne.
Quebec, Quebec*	29 78	756.4	30.13	765.3	15	— 9.4	100	w.	.....	.....	1	.....	10 n	.....	w.	0	0	cloudy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.46	748.3	29.94	760.5	23	— 5.0	84	s.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.13	739.9	29.89	759.2	22	— 5.6	92	se.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	
St. Andrews, N. B	30.02	763.5	30.07	763.8	16	— 8.9	91	ne.	4	1.8	.....	.....	10 n	.....	.....	0	0	cloudy	
St. John, N. B	29.90	759.4	30.08	764.0	10.0	—12.2	100	ne.	10	4.5	.....	.....	10 ks	.....	.....	0	0	overcast	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.00	762.0	32.0	0.0	.....	se.	.....	.....	4	.....	.....	.....	.....	0	0	.....	The Commandant.
Stratford	28.59	726.2	29.91	759.7	31.0	— 0.6	92	s.	3	1.3	.....	.....	10 s	.....	.....	0	0	overcast	C. J. Macgregor, M. A.
Sydney, C. B*	30.02	762.5	30.09	764.3	19	— 7.2	87	ne.	9	4.0	.....	.....	10 n	.....	.....	0.02	0.5	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.57	751.1	29.97	761.2	31	— 0.6	92	s.	7	3.1	.....	.....	10 n	.....	.....	0	0	cloudy	Magnetic Observatory.
Windsor	29.93	760.2	30.03	762.7	17.5	— 8.1	92	nw.	4	1.8	.....	.....	10 n	.....	.....	0	0	overcast	Prof. W. H. Butler.
Woodstock	28.85	732.8	29.95	760.7	32.0	0.0	95	se.	8	3.6	.....	.....	10 s	.....	.....	0	0	overcast	Prof. Wolverton, M. A.
Yarmouth, N. S*	29.92	760.0	29.99	761.7	21	— 6.1	80	ne.	1	0.4	.....	.....	10 s	.....	n.	0	0	cloudy	Lt. F. E. Wilmot, R. A.
Cape Colony.																			
Cape St. Francis Lt. House	29.86	758.4	29.89	759.2	70.0	21.1	83	e.	16.2	7.2	.....	.....	hz	.....	.....	0	0	hazy	John Duthie.
Springbok Fontein	27.85	758.2	.....	.....	90	32.2	49	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.54	623.3	.....	.....	18.5	— 7.5	.....	nne.	.....	.....	1	.....	0	.....	.....	.....	.....	foggy	
Tchang-kia-tchouang	30.24	768.1	30.35	770.9	11.8	—11.2	72	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Mission, S. J.
Zi-Ka-Wei, near Shanghai	30.17	766.3	30.20	767.0	31.5	— 0.3	73	nw.	20.6	9.2	.....	10	.....	.....	.....	0.028	0.7	covered	M. Marc Dechevrens, S.J
Danish.																			
Copenhagen	29.34	745.3	29.39	746.5	37.0	2.8	93	wsw.	20	9	.....	10	.....	.....	.....	.....	.....	foggy	Oversergent Fischer.
Fanoe	29.38	746.2	29.40	746.7	35.6	2.0	85	w.	.....	.....	4	4	.....	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.79	756.7	29.84	757.8	— 4.2	—20.1	100	nnw.	.....	.....	4	6	.....	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	29.67	753.5	29.69	754.0	2.3	—16.5	.....	n.	.....	.....	2	2	.....	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.79	756.6	29.84	757.8	—10.1	—23.4	.....	e.	.....	.....	1	6	.....	.....	.....	.....	.....	snowing	
Stykkisholm, Iceland	28.99	736.4	29.04	737.5	24.1	— 4.4	88	e.	.....	.....	6	10	.....	.....	.....	.....	.....	snowing	A. O. Thorlacius.
Thorshavn	29.11	739.5	29.15	740.4	32.7	0.4	66	nw.	16	7	.....	4	.....	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	29.18	741.1	29.27	743.4	34.7	1.5	87	sw.	.....	.....	6	7	.....	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	29.70	754.3	29.74	755.5	— 6.2	—21.2	.....	calm	.....	.....	0	1	.....	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	29.58	751.4	30.25	768.4	51.4	10.8	90	w.	.....	.....	1	.....	kn	.....	.....	0.059	1.5	.....	M. Labroue, Director.
Alençon, Normal School	29.41	747.0	29.90	761.0	43.9	6.6	92	sw.	.....	.....	1	.....	k	ne.	ne.	0.24	6.	.....	M. Nicot, Director.
Arras, Engineer School	29.51	749 5	29.77	756.2	41.7	5.4	.....	.....	.....	.....	4	.....	k	.....	w.	0	0	.....	M. Fénéon, Command't.
Avignon, Normal School	29.95	760 7	30.03	762.7	53.2	11.8	74	se.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.38	746.3	29.95	760.6	47.3	8.5	66	nw.	.....	.....	2	0	8 kn	.....	nw.	0.362	9.2	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.60	751.9	29.87	758.8	44.4	6.9	65	w.	.....	.....	2	.....	8	.....	w.	0.362	9.2	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.02	737.0	29.92	760.0	46.4	8	85	s.	.....	.....	1	c	0	e.	.....	0.362	9.2	.....	M. Gobin, Director.
Bordeaux, Observatory	29.86	758.5	30.13	765.3	48.6	9.2	62	wnw.	.....	.....	1	.....	5	.....	.....	0.126	3.2	cloudy	M. Rayet, Director.
Bourges, Normal School	29.29	743.9	29.85	758.1	46.4	8	72	w.	.....	.....	3	.....	kn	.....	w.	0.08	2.	.....	M. Mulet, Director.
Brest, Naval Observatory	29.74	755.4	29.98	761.6	49.6	9.8	66	w.	.....	.....	3	.....	1	.....	w.	0.374	9.5	.....	M. de Kermaïde, Dir.
Caen, Normal School	29.93	760.1	30.00	762.1	45.0	7.2	80	e.	.....	.....	1	.....	0	.....	.....	0.484	12.3	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.47	748.6	29.80	756.8	48.6	9.2	66	sw.	.....	.....	4	.....	2	.....	sw.	0.157	4.0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.30	744.2	29.82	757.4	46.0	7.8	77	w.	.....	.....	2	.....	10	.....	.....	0.209	5.3	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28 69	728.6	30.07	763.8	45.3	7.4	64	wsw.	.....	.....	2	.....	8	.....	w.	0.020	0.5	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.13	740.0	30.00	762.1	45.0	7.2	71	w.	.....	.....	4	.....	.....	.....	w.	0.04	1.	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.02	737.2	29.90	759.4	41.0	5	87	w.	.....	.....	1	.....	2 kn	w.	w.	0.287	7.3	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.53	699.2	30.14	765.6	40.1	4.5	88	sw.	.....	.....	1	.....	10 n	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, du Rhone	28.87	733.4	30.01	762.2	51.3	10.7	80	e.	.....	.....	1	.....	10	.....	e.	0	0	.....	M. Klunt, Director.
Grenoble, Normal School	29.23	742.5	30.02	762.6	47.8	8.8	67	se.	.....	.....	1	.....	10 n	.....	.....	.....	.....	raining	M. Ablard, Director.
Guéret	28.47	723.0	30.08	764.1	44.2	6.8	56	sw.	.....	.....	1	2 c	0	sse.	.....	0.244	6.2	slightly cl'dy	M. Delorme, Dir.
Lamballe, Normal School	29.67	753.7	29.95	760.6	45.7	7.6	74	wsw.	.....	.....	3	.....	1	.....	wsw.	0.16	4.	clear	M. Ollitrault, Director.
Lescar, Normal School	29.59	751.5	30.16	766.0	48.6	9.2	71	w.	.....	.....	1	.....	10	.....	.....	0.126	3.2	raining	M. Chauvin, Director.
Lorient, Naval Observatory	29.91	759.7	30.01	762.3	48.6	9.2	73	sw.	.....	.....	2	.....	5	w.	sw.	0.642	16.3	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.98	736.1	30.06	763.5	43.9	6.6	62	wnw.	.....	.....	1	.....	10 n	.....	sw.	0.059	1.5	covered	M. André, Director.
Mans, Normal School	29.68	753.8	30.00	761.9	44.4	6.9	72	wnw.	.....	.....	4	.....	2	.....	w.	0.47	12.	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.71	754.7	29.98	761.6	54.9	12.7	77	ese.	.....	.....	1.2	.....	10	.....	ese.	0.003	1.6	.....	M. Stephan, Director.
Montlouis	24.76	628.8	29.60	751.8	32.5	0.3	87	sw.	20.1	9.0	.....	.....	8	w.	.....	0	0	.....	M. Caré for Dr. Fines.
Montpellier, Normal School	29.82	757.3	29.95	760.6	53.6	12	72	ne.	.....	.....	4	.....	5	ne.	.....	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.06	738.0	29.86	758.4	40.3	4.6	74	wsw.	.....	.....	2	.....	10 n	.....	.....	.....	.....	raining	M. Hasse, Director.
Nantes, Observatory	29.91	759.7	30.07	763.8	50.0	10.0	64	wsw.	.....	.....	1-2	.....	4 k; kn	.....	w.	0.803	20.4	.....	M. Larocque, Director.
Perpignan, Observatory	29.97	761.2	30.08	764.1	52.0	11.1	61	n.	20.6	9.2	.....	.....	10	sw.	nw.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.09	535.7	.....	.....	15.4	— 9.2	.....	nw.	.....	.....	1	.....	10	.....	nw.	0.118	3.0	snowy	M. Vaussenat.
Privas, Normal School	28.97	735.7	30.06	763.4	44.6	7	80	s.	.....	.....	1	.....	10	s.	s.	0.094	2.4	covered	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.02	635.5	.....	.....	27.0	— 2.8	98	w.	.....	.....	8	.....	fg	.....	w.	0.098	2.5	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	30.06	763.6	30.10	764.4	51.4	10.8	73	w.	.....	.....	2	.....	2	.....	w.	0.87	22.	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.85	758.2	30.07	763.8	46.8	8.2	72	w.	.....	.....	1	.....	8	.....	s.	0.252	6.4	light rain	M. Brotier, Director.
Rodez, Normal School	27.89	708.4	30.11	764.8	41.0	5	84	nw.	.....	.....	2	.....	k	.....	se.	0.12	3.	.....	M. Seger, Director.
Rouen, Normal School	29.79	756.7	29.84	757.9	43.5	6.4	76	wsw.	.....	.....	1	.....	2	.....	.....	0.35	9.	slightly cl'dy	M. Mouillot.
Saint Lô	.....	.....	.....	.....	41.5	5.3	95	nw.	.....	.....	1	.....	5	.....	w.	0.532	13.5	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	29.76	755.8	29.92	760 0	45.5	7.5	64	wsw.	.....	.....	3	.....	3	.....	w.	0.130	3.3	.....	M. Renou, Director.
Toulouse, Observatory	29.47	748.5	30.20	767.0	46.8	8.2	86	wsw.	.....	.....	2	.....	10	nw.	.....	0.083	2.1	covered	M. Baillaud, Director.
Tours	29.84	757.8	30.01	762.3	48.2	9.0	63	w.	.....	.....	2	.....	2	.....	w.	0.067	1.7	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.41	747.0	29.90	759.5	44.6	7.0	62	w.	.....	.....	3	.....	.....	.....	.....	0.157	4.0	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.06	763.5	30.21	767.3	44.8	7.1	91	w.	17.7	7.9	.....	.....	10 kn	.....	wnw.	0.484	12.3	.....	M. Cartier, Director.
German.																			
Ansbach	28.29	718.5	29.86	758.5	46.8	8.2	71	w.	.....	.....	4	.....	9	w.	.....	0.055	1.4	.....	Prof. Jnedt.
Bamberg	28.95	735 2	29.78	756.5	42.8	6.0	76	w.	.....	.....	2	.....	8	w.	.....	0.028	0.7	raining	Prof. Dr. Hoh.
Breslau	29.42	747.2	29.56	750.9	44.6	7.0	81	w.	.....	.....	5	.....	10	.....	.....	0.004	0.1	.....	Dr. Lonsch.
Carlsruhe	29.15	740.4	29.67	753.7	46.2	7.9	59	ssw.	.....	.....	2	.....	10	.....	.....	0	0	foggy	Royal University Obs'y
Cassel	29.39	746.5	29.84	757.8	44.2	6.8	85	sw.	.....	.....	5	.....	10	sw.	.....	0.079	2.0	rainy	Albert Senz.
Frankfort-on-the-Main	28.91	734.3	29.62	752 4	40.8	4.9	84	s.	.....	.....	2	.....	8	s.	.....	0.035	0.9	.....	Dr. H. Möhl.
Friedrichshafen	29.39	746.6	29.77	756.1	42.4	5.8	93	w.	.....	.....	1	.....	10	.....	.....	0.035	0.9	.....	Physical Society.
Hamburg	28.42	721.8	29.87	758.7	46.8	8.2	66	w.	.....	.....	6	.....	10	w.	.....	0.102	2.6	light rain	Wilhelm, Chief Tel.
Kiel	29.47	748.5	29.56	750.8	38.8	3.8	95	wnw.	.....	.....	4	.....	7	.....	.....	0.311	7.9	.....	E. Preller.
Leipsic, Astrom'l Obs'y	29.47	748.6	29.49	749.0	39.9	4.4	83	sw.	.....	.....	4	.....	5	.....	.....	0.390	9.9	.....	Prof. Dr. G. Karsten.
Magdeburg	29.22	742.3	29.65	753.0	44.6	7.0	74	ssw.	.....	.....	3	.....	10	wsw.	.....	.....	.....	sprinkling	H. Leppig, Asst.
Memel	29.41	747.1	29.61	752.0	44.1	6.7	84	wnw.	.....	.....	3	.....	10 ks	.....	.....	0.035	0.9	.....	Weather Observatory.
Munich	29.43	747.4	29.35	745.5	35.6	2.0	100	s.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	Issermann.
Neufahrwasser	27.97	710.4	29.82	757.3	50.0	10.0	42	w.	.....	.....	3	.....	8	w.	.....	0	0	.....	Central Station.
Neustadt, Palatinate	29.45	748.0	29.47	748.4	42.8	6.0	79	sw.	.....	.....	3	.....	10	wsw.	.....	0.027	0.7	.....	A. Lothes.
Stuttgart	29.24	742.7	29.76	756.0	44.2	6.8	84	n.	.....	.....	5	.....	10	.....	.....	0.197	5.0	rainy	Dicknether.
Wustrow	28.84	732.6	29.74	755.5	46.8	8.2	60	w.	.....	.....	5	.....	10	.....	.....	0.043	1.1	raining	Prof. Dr. Schoder.
	29.50	749.2	29.52	749.8	37.8	3.2	83	ssw.	.....	.....	3	.....	10	.....	.....	0.091	2.3	.....	Profs. Brandes & Reimar
Greek.																			
Athens	29.80	757.0	30.20	767.1	47.1	8.4	.....	n.	.....	.....	1.5	0	5 k	.....	.....	0	0	.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.93	760.3	29.98	761.6	69.8	21.0	46	wnw.	18.0	8.0	.....	.....	0	.....	.....	0	0	blue sky	
Deesa	29.44	747.8	29.93	760.1	70.8	21.6	16	nnw.	14.0	6.3	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.80	757.0	29.84	758.0	78.3	25.7	56	nnw.	19.0	8.5	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.94	709.7	29.77	756.2	84.8	29.3	28	w.	11.0	4.9	.....	.....	1	.....	w.	0	0	d. clouds	
Belgaum	27.28	692.8	29.79	756.6	80.7	27.1	39	wsw.	8.0	3.6	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.18	741.2	29.97	761.3	52.7	11.5	61	calm	0	0	.....	.....	3	.....	.....	0	0	blue sky	
Roorkee	29.00	736.7	29.96	760.9	54.8	12.7	50	w.	0.5	0.2	.....	.....	0	.....	.....	0	0	.....	
Agra	29.40	746.6	29.99	761.8	58.3	14.6	51	w.	.....	.....	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.79	731.2	29.84	757.8	78.0	25.6	29	calm	2.0	0.9	.....	.....	2	w.	.....	0	0	d. clouds	
Jubbulpore	28.53	724.6	29.91	759.8	69.7	20.9	45	calm	2.0	0.9	.....	.....	3	.....	w.	0	0	d. clouds	
Lucknow	29.56	750.8	29.96	760.9	59.3	15.2	68	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.60	751.9	29.93	760.2	61.8	16.6	69	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.70	754.4	29.90	759.3	63.2	17.3	53	w.	4.3	1.9	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.84	707.1	29.92	760.0	59.7	15.4	52	nw.	7.1	3.2	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.79	756.8	29.88	758.9	74.9	23.3	66	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.88	759.0	29.90	759.5	66.7	19.3	46	nnw.	0.5	0.2	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.74	755.4	29.86	758.6	61.9	16.6	89	sw.	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.80	757.0	29.90	759.3	63.6	17.6	58	w.	3.4	1.5	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.54	750.2	29.89	759.1	58.9	14.9	88	ne.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar	29.81	757.2	29.84	757.8	80.7	27.1	76	w.	5.9	2.6	.....	.....	9	.....	.....	0.16	4.1	gloomy	
Jeypore	28.48	723.4	29.99	761.7	59.1	15.1	40	nw.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Bellary	28.32	719.3	.....	.....	85.1	29.5	36	se.	4	1.8	.....	5 ck	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.58	751.3	.....	.....	87.0	30.6	47	ne.	1.	0.4	.....	.....	5	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.																			
Udine	29.70	754.4	30.13	765.2	40.3	4.6	72	se.	0.7	0.3	.....	.....	10	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.58	751.2	30.12	765.0	37.9	3.3	90	sSW.	1.3	0.6	.....	.....	10	.....	.....	0.098	2.5	.....	Prof. Schiapparelli.
Padua	29.99	761 8	30.11	764.7	39.2	4.0	72	n.	2.5	1.1	.....	.....	10	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.15	740.5	30.10	764.6	37.4	3.0	84	nw.	2.5	1.1	.....	.....	10	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.88	758.9	30.08	763.9	50.9	10.5	88	s.	8.7	3.9	.....	.....	10	se.	.....	0.083	2.1	.....	Prof. G. M. Garibaldi.
Mondovi	28.15	714.9	30.15	765.9	37.4	3.0	35	w.	.....	.....	2	.....	5	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.05	763.3	30.10	764.6	50.9	10.6	68	sw.	15.4	6.9	.....	.....	8	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.64	758.0	30.11	764.7	46.4	8.0	66	sw.	.....	.....	2	.....	10	sw.	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.95	760.7	30.04	762.9	53.8	12.1	75	s.	1.3	0.6	.....	.....	10	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.97	761.3	30.15	765.9	54.9	12.7	58	s.	10.5	4.7	.....	.....	8	.....	.....	0	0	.....	Prof. P. Tachini.
Lecce	29.91	759.8	30.17	766.4	52.2	11.2	43	se.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.31	744.4	30.22	767 7	49.3	9.6	74	wsw.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.88	759.0	30.08	764.1	57.9	14.4	74	ese.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.97	761.3	30.23	767.8	54.0	12.2	49	ne.	3.1	1.4	.....	.....	0	.....	.....	0.480	12.2	.....	Prof. G. Cacciatore.
Syracuse	30.18	766.5	30.22	767.6	56.5	13.6	56	sw.	5.6	2.5	.....	.....	1	wsw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.68	753.9	30.22	767.6	51.8	11.0	69	s.	1.3	0.6	.....	.....	8	sw.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	21.96	557.8	.....	.....	23.4	— 4.8	78	nw.	.....	.....	8	.....	10	.....	.....	0	0	covered	Prof. P. F. Denza.
Valdobbia	22.02	559.4	.....	.....	25.3	— 3.7	65	nw.	.....	.....	2	.....	5	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.46	748.3	29.49	749.1	38.2	3.4	90	calm	.....	.....	0	.....	10 n	.....	W.	0.484	12.3	raining	Hattori.
Awomori	29.41	747.1	29.45	748.1	35.0	1.7	87	wnw.	2.7	1.2	.....	.....	10 n	.....	.....	0.678	2.0	raining	K. Ogawa.
Hakodate	29.50	749.3	29.51	749.6	37.8	3.2	90	ese.	25.8	11.5	.....	.....	10	.....	.....	0.296	7.5	raining	
Hamamatsu	29.44	747.8	29.47	748.5	48.6	9.2	94	se.	.....	.....	7	.....	10 n	.....	.....	1.677	42.0	raining	
Kagoshima	29.76	755.9	29.77	756.2	51.4	10.8	80	nw.	.....	.....	4	.....	10 n	.....	.....	0.035	0.9	raining	G. Miyanohaza.
Kioto	29.31	744 4	29.48	748.9	49.1	9.5	96	nw.	2.2	1.0	.....	.....	10 n	.....	.....	0.751	19.1	light rain	M. Tojima.
Kochi	29.54	750.2	29.56	750.7	54.6	12.6	62	w.	25.1	11.3	.....	0	1	.....	nw.	0.720	18.3	clear	K. Kusunose.
Misaaka	29.64	752.9	29.67	753.6	52.0	11.1	75	w.	.....	.....	6	0	6 s;ks	.....	w.	0.012	0.3	fair	K. Masusaki.
Nagasaki, I. M. Obs'y	29.58	751.3	29.79	756.5	49.4	9.7	69	wsw.	7.2	3.2	.....	.....	10 s	.....	.....	0.030	0.8	.....	S. Takehayashi.
Niigata	29.40	746.7	29.44	747.8	44.8	7.1	73	se.	17.9	8.0	.....	.....	10 n	.....	.....	0.610	15.5	light rain	M. Morita.
Nohiru	29.64	752.9	29.66	753.3	44.1	6.7	96	s.	15.1	6.7	.....	.....	10 n	.....	.....	1.500	38.1	.....	H. Midzushina.
Numazu	29.60	751.7	29.63	752.6	44.0	6.7	93	ene.	.....	.....	4	.....	10 n	.....	.....	0.097	17.7	cloudy	R. Kaneda.
Sakai	29.54	750.4	29.55	750.7	48.2	9.0	94	wsw.	.....	.....	2	.....	10 n	.....	.....	0.591	15.0	snowing	K. Yamawchi.
Sapporo	.....	.....	.....	.....	32.8	0.5	100	se.	38.4	17.2	.....	.....	10	.....	.....	0.015	0.4	snowing	
Tokei Obs'y, Yeddo	29.64	752.9	29.72	754.9	32.8	0.5	95	nnw.	8.2	3.7	.....	.....	10 n	.....	.....	0.510	13.0	raining	The Staff.
Wakayama	29.49	749.1	29.54	750.4	49.2	9.6	94	n.	3.5	1.6	.....	.....	10 ck	.....	W.	0.501	12.7	cloudy	Y. Kuwamura.
Osaka	29.49	749.1	29.51	749.8	48.2	9.0	94	nnw.	11.8	5.3	.....	.....	10 n	.....	.....	0.505	14.3	light rain	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.59	751.6	29.78	756.4	82.0	27.8	77	ese.	23.5	10.5	.....	.....	8 ks;n	.....	ese.	0.005	0.1	cloudy	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	52	11.1	79	nw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	clear	H. Diaz Pena.
Guanajuato	23.68	601.4	29.90	759.4	52.9	11.6	83	calm	0	0	.....	3 c	0	W.	.....	0	0	foggy	Prof. Vicente Fernandez.
Leon	24.32	617.7	30.12	765.0	48.2	9.0	82	nnw.	.....	.....	1	3 c	0	.....	.....	0	0	clear	Prof. M. Leal.
Mazatlan	29.72	754.8	29.98	761.5	60.0	15.6	79	nnw.	5.3	2.3	.....	1 cs	0	.....	.....	0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.08	586 3	30.21	767.4	50.2	10.1	69	calm	0	0	.....	7 c	0	.....	.....	0	0	.....	The Staff.
Morelia	24 31	617.5	30.20	767.0	51.8	11.0	70	se.	.....	.....	1	1 c	2 k	s.	se.	0	0	clear	M. Tena, M. D.
Pabellon	23.96	608.5	30.06	763.4	47.7	8.7	75	nne.	.....	.....	1	1 cs	0	.....	.....	0	0	clear	
Puebla, Catholic Institute	23 40	594.6	30.30	769.5	45.5	7.5	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
Zacatecas	22.52	571.9	30.26	768.6	45.5	7.5	79	ne.	2.3	1.0	.....	5 c	1 s	w.	wsw.	0	0	½ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.70	754 3	29.70	754.3	44 1	6.7	.....	wsw.	.....	.....	5	.....	.....	.....	.....	0.402	10.2	.....	
Groningen	29.47	748.6	29.53	750.0	40.8	4.9	.....	sw.	.....	.....	4	.....	.....	.....	.....	0.402	10.2	.....	
Hellevoetsluis	29.67	753.6	29.67	753.6	42.6	5.9	70	wsw.	.....	.....	4	.....	.....	.....	.....	0.240	6.1	.....	
Utrecht	29.03	752.5	29.67	753.7	44.2	6.8	65	wsw.	.....	.....	4	.....	5	.....	.....	0.140	3.7	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.77	756.2	.....	.....	76.1	24.5	95	ssw.	0	0	.....	.....	10	.....	.....	0.28	7.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	28 95	735.2	29.01	736.8	35.6	2.0	93	s.	16	7	.....	.....	10	.....	.....	1.016	25.8	snowing	
Bronno	28.71	729.2	28.75	730.2	35.2	1.8	85	sw.	29	13	.....	.....	10	.....	.....	0.079	2.0	.....	
Christiania	28.97	735.9	29.12	739.7	30.9	— 0.6	77	e.	0	0	.....	.....	10	.....	.....	0.154	3.9	foggy	
Gjæsvær	28.76	730.5	28.78	731.1	24.4	— 4.2	.....	e.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	
Lodingen	28.62	726.9	28.67	728.1	24.8	— 4.0	81	sse.	.....	.....	2	.....	10	.....	.....	0.118	3.0	snowing	
PORTUGUESE.																			
Angra, Azores	30.39	771.9	30.55	775.9	59.9	15.5	83	wnw.	18.6	8.3	.....	.....	4	.....	.....	0.118	3.0	.....	Dr. J. A. Sampaio.
Campo Major	29.29	744.0	30.32	770.1	53.1	11.7	84	wnw.	7.4	3.3	.....	.....	3	.....	.....	0.079	2.0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.50	774.7	30.59	777.0	66.2	19.0	61	sw.	4.3	1.9	.....	.....	1	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.11	764.7	30.48	774.1	54.7	12.6	55	nw.	15.4	6.9	.....	.....	3	.....	.....	0.232	5.9	.....	The Staff.
Ponta Delgada, Azores	30.54	775.6	30.61	777.4	66.8	19 0	69	w.	15.0	6.7	.....	.....	3	nne.	.....	0	0	.....	
Saint Paul de Loando	29.74	755.3	29.94	760.4	82.9	28.3	79	wnw.	1.8	0.8	.....	.....	4	ne.	.....	0	0	.....	
Serra da Estrella	25.43	645.9	30.41	772.3	28.9	— 1.7	100	nw.	13.0	5.8	.....	.....	10	.....	.....	.....	.....	foggy	
RUSSIAN.																			
Akmolinski	29.47	748.6	30.72	780.4	— 8.7	—22.6	84	sw.	11	5	.....	.....	10 n	.....	.....	.....	.....	.....	Major K. Lasarew.
Archangel	29.38	740.2	29.40	740.7	18.7	— 7.4	83	sse.	13	6	.....	.....	10	.....	.....	.....	.....	snow-drift	Capt. Sselliwerstow.
Ashurada	30.35	771.0	30.26	768.6	41.5	5.3	80	n.	2	1	.....	1 ck	0	.....	.....	0	0	.....	
Astrakhan	30.50	774.6	30.41	772.5	20.8	— 6.2	71	ese.	18	8	.....	.....	10	.....	.....	0	0	heavy cl'ds.	Capt. Wisganow.
Baku	30.30	769.5	30.25	768.3	40.3	4.6	90	sse.	4	2	.....	0	8 k	.....	.....	blank	blank	.....	
Barnaul	30.11	764.8	30.68	779.2	— 0.4	—18.0	79	sw.	13	6	.....	.....	10	.....	.....	0.020	0.5	.....	Meteorological Obs'y.
Bielosersk	29.22	742.2	29.71	754 6	21.2	— 6.0	93	sse.	18	8	.....	.....	10 n	.....	.....	0.118	3.0	snowing	
Dorpat	29.19	741.5	29.44	747.8	35.6	2.0	100	ssw.	9	4	.....	.....	10 n	.....	.....	0.240	6.1	light rain	Observatory.
Ekaterinburg	29.52	749.9	30.58	776.7	14.7	— 9.6	33	sw.	9	4	.....	.....	10	.....	.....	0	0	light clouds	Meteorological Obs'y.
Elisawetgrad	29.83	757.6	30.31	769.9	23.2	— 4.9	100	calm	0	0	.....	.....	10	.....	.....	0.012	0.3	.....	
Irkutsk	28.89	733.7	30.83	783.0	—18.6	—28.1	79	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Kasan	30.16	766.0	30.47	773.8	1.4	—17.0	69	sse.	13	6	.....	9 cs	0	.....	.....	0	0	.....	Observatory.
Kem	28.99	736.3	29.04	737.6	29.1	— 1.6	84	s.	45	20	.....	.....	10 ks	.....	.....	0.016	0.4	heavy cl'ds.	
Kertch	30.21	767.2	30.22	767.7	27.9	— 2.3	94	nw.	4	2	.....	.....	10 n	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.49	749.0	30.16	766.1	28.4	— 2.0	88	s	16	7	.....	.....	toks;n	.....	.....	0	0	.....	Observatory.
Koslov	29.79	756.5	30.30	771.2	13.8	—10.1	94	ssw.	9	4	.....	.....	10 s	.....	.....	.....	.....	light snow	
Libau	29.37	746.1	29.40	746.7	34.0	1.1	98	ssw.	11	5	.....	.....	10	.....	.....	0.445	11.3	raining	E. Quass.
Lugan	30.08	764.0	30.28	769.1	21.4	— 5.9	85	ese.	4	2	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.62	752.4	30.14	765.5	21.0	— 6.1	93	s.	5.6	2.5	.....	.....	10 n	.....	.....	blank	blank	.....	
Nikolaiev	30.20	767.0	30.27	768.9	24.4	— 4.2	95	calm	0	0	.....	.....	10 n	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29 75	755.6	29.84	757 8	— 2.9	—19.4	75	calm	0	0	.....	.....	10	.....	.....	0	0	.....	Iwanow.
Pekin, China	30.24	768 2	30.39	771.8	22.6	— 5.2	35	nw	16	7	.....	0	0	.....	.....	0	0	.....	Physicla Observatory.
Petrozavodsk	29.11	739 5	29.32	744.6	29.8	— 1.2	94	sw.	45	20	.....	.....	10	.....	.....	0.118	3.0	.....	Dr. Bergmann.
Pinsk	29.39	746.6	29.91	759.6	36.3	2.4	75	s.	22	10	.....	.....	10 s	.....	.....	0	0	.....	
Poti	30.17	766.3	30.19	766.8	42.1	5.6	93	ese.	4	2	.....	.....	10 n	.....	.....	.....	.....	raining	
St. Petersburg	29.37	746.1	29.39	746.5	35.2	1.8	85	sw.	20	9	.....	.....	10 n	.....	.....	0.012	0.3	.....	Central Physical Obs'y.
Samarkand	27.70	703.5	30.37	771.5	17.6	— 8.0	58	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	
Sevastopol	29.99	761.8	30.16	766.0	33.4	0.8	85	nne.	16	7	.....	7 cs	0	.....	.....	blank	blank	.....	
Semipalatinsk	30.04	763 1	30.79	782.0	— 5.4	—20.8	79	se.	4	2	.....	.....	7	.....	.....	0	0	.....	Major Lasarew.
Staroi Bykhov	29.58	751.2	30.00	763.4	28.8	— 1.8	84	se.	16	7	.....	.....	10	.....	.....	0	0	.....	
Tiflis	28.77	730.8	30.24	768.2	38.5	3.6	62	e.	4	2	.....	7 cs	0	.....	.....	0	0	.....	Physical Observatory.
Tomsk	30.18	766.5	30.50	774.6	— 1.8	—18.9	85	s.	4	2	.....	.....	10	.....	.....	.....	.....	.....	
Viatka	29.66	753.4	30.37	771.4	0.3	—17.6	.....	s.	4	2	.....	.....	2	.....	.....	0	0	.....	
Warsaw	29.26	743.1	29.69	754.0	39.4	4.1	80	sw.	16	6	.....	0	7 ks	.....	.....	0.122	3.1	light clouds	Astronomical Obs'y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. 'Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Wilna	29.26	743.2	29.70	754.3	35.1	1.7	88	s.	9	4			10			0.004	0.1	heavy clouds	**Berg, Assistant.**
Yeniseisk	30.28	769.0	30.62	777.7	−19.5	−28.6	80	e.	7	3			10			0	0		**M. O. Marks.**
Scottish.																			
Monach Lt			29.33	745.0	42	5.6	91	nnw.			7		10			0.2	5.		**J. Youngclauss**
North Unst			29.02	737.1				w.			4	6	3	sw.					**Robt. Burnet.**
Spanish.																			
Barcelona, Met. Obs'y	29.93	760.2	30.04	762.9	53.6	12.0	88	sw.	0.7	0.3			9			0.043	1.1		**Antonio Reve, Director.**
Bilbao, Met. Obs'y	30.22	767.6	30.28	769.1	51.1	10.6	70	nw.	6.7	3.0		2	4	sw.		0.142	3.6	cloudy	**Prof. Manuel de Naveran.**
Burgos, Met. Obs'y	27.20	690.8	30.26	768.6	43.2	6.2	67	n.	7.8	3.5			7			0.197	5.0	cloudy	**Domingo Martin.**
Madrid, Royal Obs'y	27.91	709.0	30.19	766 9	48.2	9.0	64	nw.	2.5	1.1		0	5			0.150	3.8	cloudy	**The Staff.**
Murcia, Met. Obs'y	29.96?	760.9?	30.09?	764.3?	57.6	14.2	78	nw.	2.0	0.9		2	6	sse.		0.224	5.7	cloudy	**Olayo Diaz, Director.**
Oviedo	29.32	744.6	30.21	757.2	43.7	6.5	97	e.	26.6	11.9		4 n	4 k			0.071	1.8	covered	**Prof. L. G. Frades.**
Santiago, Met. Obs'y	29.33	745.0	30.26	768.7	43.0	6.1	83	nw.	7.4	3.3			10			1.079	27.4	raining	**R. Gil Villanueva, Dir.**
Spanish.—(*Sub-series.*)																			
Manilla, Philippine Islands	29.81	757.2	29.87	758.6	79.8	26.6	79	ese.	41.2	18.4		0	1 k			0	0	clear	**P. F. Faura, S. J.**
San Fernando, Naval Obs'y	30.33	770.5	30.44	773.1	56.3	13.5	68	wnw.	19.0	8.5		0	2		nw.	0.004	0.1		**Capt. C. Pujazon, R. N.**
San Juan de Porto Rico, W.I	30.01	762.2	30.10	764.5	80.2	26.8	64	calm	0	0		3 cs	3 k	e.	e.	0	0		**Manuel Maese.**
Swedish.																			
Haparanda	28.70	728.9	28.74	729.9	18	− 7.3	100	sw.			4		8			0	0		
Umea	28.89	733.7	28.94	735.0	34.0	1.1	79	sw.			2		6			0	0		
Hernosand	28.96	735 5	29.01	736.8	34.9	1.6	66	calm			0		0			0.122	3.1		
Stockholm	29.06	738.0	29.23	742.5	35.6	2.0	78	ssw.			2		8			0.047	1.2		
Wisby	29.26	743.1	29.32	744.6	37.8	3.2	90	wsw.			4		7			0.264	6.7		
Sub-series.																			
Upsala	29.10	739.1	29.19	741.3	33.8	1.0	86	sw.	12.1	5.4			9	wsw.		0.020	0.5		**S. G. Fineman.**
Swiss.																			
Geneva	28.60	726.4	30.07	763.8	39.9	4.4	83	ssw.			3		10			0.181	4.6	raining	**The Observatory.**
Turkish.																			
Constantinople			30.22	767.6	40.6	4.8	80	ne.	10	4.5			10		ne.	0	0		**The Observatory.**
Valona			30.22	767.5	49.3	9.6		w.			1		0			0	0	clear	**A. Bertrand.**
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.02	762.6	57.0	13.9	71	s.			1		10 n		sw.	0.46	11.7		**Prof. C. V. A. van Dyck.**
Samokov, Bulgaria	26.78	680.2			32	0.0	75	calm			0		10 n			0	0	cloudy	**Fred L. Kingsbury.**
United States.																			
Albany, New York	30.05	763.3	30.14	765.5	32	0.0	68	w.	2	0.9			10 s		w.	0	0	cloudy	**J. O. Barnes.**
Alpena, Michigan	29.11	739.4	29.82	757.4	29	− 1.7	77	se.	16	7.2			10 s			0	0	cloudy	**Jas. J. Fitzgerald.**
Apache, Fort, Arizona	25.17	639.3	30.29	769.4	27	− 2.8	70	ne.	3	1.3		0	0			0	0	clear	**W. O. Barnes.**
Assinnaboine, Ft., Montana	27.26	692.4	30.30	769.6	13	−10.6	66	ne.	8	3.6			10 n		n.	0.07	1.8	light snow.	**B. O. Lenoir.**
Atlanta, Georgia	28.91	734.3	30.14	765.5	41.5	5.3	68	s.	5	2.2		0	0			0	0	clear	**H. C. Smith.**
Atlantic City, New Jersey	30.14	765.5	30.15	765.8	31	− 0.6	78	calm	0	0		0	0			0.01	0.3	clear	**Jas. M. Watson.**
Augusta, Georgia	30.00	762.0	30.20	767.1	41	5.0	82	calm	0	0		0	2 s			0	0	clear	**John Healy.**
Baltimore, Maryland	30.15	765.8	30.20	767.1	32	0.0	78	calm	0	0		0	fg.			0	0	clear	**Geo W Felger.**
Barnegat, New Jersey	30.13	765.3	30.15	765.8	32.0	0.0	88	nw.	4	1.8		1 k	hz.			0.08	2.0	clear	**G. A. Hill.**
Behring Id., Behring Sea	29.48	748.8	29.50	749.3	26.0	− 3.3		se.	5	2.2		0	2 s			0.04	1.0	clear	**Leonard Steineger.**
Bennett, Fort, Dakota	28.44	722.4	30.18	766.6	11	−11.7	80	nw.	24	10.7			10 s		nw.	inap.	inap.	cloudy	**A. Pritchard.**
Benton, Fort, Montana	27.28	692 9	30.26	768.6	15	− 9.4	100	calm	0	0			10 n		ne.	0.06	1.5	light snow.	**S. Wheaton.**
Billings, Montana	26 79	680.5			23	− 5.0	73	e.	2	0.9			10 s			0.03	0.8	cloudy	**T. Gibson.**
Bismarck, Dakota	28.19	716.0	30.18	766.6	9	−12.8	80	n.	15	6.7			10 s			0.10	4.1	cloudy	**Cyrus Cramer.**
Block Island, Rhode Island	30.10	764 5	30.13	765.3	32	0.0	88	n.	8	3.6			10 ks		n.	0.08	2.0	cloudy	**J. T. Elker.**
Boise City, Idaho	27.29	693.2	30.22	767.6	29	− 1.7	92	calm	0	0			10 s			0.38	9.7	cloudy	**B. E. Light.**
Boston, Massachusetts	29.97	761.2	30.14	765.5	31.0	− 0.6	83	nw.	6	2.7			10 s		nw.	0.01	0.3	cloudy	**O. B. Cole.**
Brownsville, Texas	29.99	761.7	30.04	763.0	53.4	11.9	93	s.	4	1.8		4 ck	0	w.		0	0	fair	**M. McCarty.**
Buffalo, New York	29.19	741.4	29.99	761.7	35.2	1.8	79	s.	7	3.1			10 s		s.	0	0	cloudy	**W. Finn.**
Buford, Fort, Dakota	28.15	715.0	30.35	770.9	2	−16.7	76	w.	16	7.2			10 s			1.29	32.8	cloudy	**F. A. Mellen.**
Burlington, Vermont	29.82	757.4	30.13	765.3	22.0	− 5.6	87	calm	0	0			10 s		w.	0	0	cloudy	**G. C. Schaeffer.**
Cairo, Illinois	29.34	745.2	30.76	781.3	48.7	9.3	88	sw.	12	5.4			10 s		sw.	0	0	threatening	**W. H. Ray.**
Cape Henry, Virginia	30.20	767.1	30.22	767.6	32	0.0	78	calm	0	0		0	0			0.15	3.8	clear	**A. K. Alderson.**
Cape May, New Jersey	30.16	766.1	30.19	766.8	34.0	1.1	78	nw.	2	0.9		0	0			0.10	2.5	clear	**W. E. Smith.**
Cape Mendocino, California	29.75	755.6	30.45	773.4	59	10.0	100	nw.	7	3.1			10 ks		nw.	0.20	5.1	cloudy	**J. J. McLean.**
Cedar Keys, Florida	30.11	764.8	30.13	765.3	55	12.8	80	e.	11	4.9			10 ks		e.	0.46	11.7	cloudy	**F. W. Mixer.**
Champaign, Illinois	28.72	729.5	29.59	751.6	38.5	3.6	60	s.	15	6.7			10 s		s.	0.06	1.5	cloudy	**L. A. Welsh.**
Charleston, S. Carolina	30.11	764.8	30.17	766.3	50	10.0	93	e.	3	1.3			10 s			0.17	4.3	threatening	**J. R. Smith.**
Charlotte, N. Carolina	29.26	743.2	30.15	765.8	35.0	1.7	100	se.	2	0.9			fg.			0	0	dense fog	**D. O'Donoghue.**
Chattanooga, Tennessee	29.23	742.4	30.09	764.3	30.0	2.2	79	sw.	2	0.9		0	fg.			0	0	clear	**B. L. Goulding.**
Cheyenne, Wyoming	23.90	607.0	30.15	765.8	14.9	− 9.5	70	nw.	12	5.4			10 s			0.03	0.8	cloudy	**E. McGovern.**
Chincoteague, Virginia	30.17	766.3	30.19	766.8	38.0	3.3	61	s.	12	5.4			10 s			0	0	cloudy	**J. Mitchell.**
Cincinnati, Ohio	29.19	741.4	29.88	758.9	31	− 0.6	100	n.	4	1.8			10s; fg			0.25	6.3	cloudy	**C. F. Dickens.**
Cleveland, Ohio	29.16	740.7	29 94	760.5	38	3.3	89	e.	8	3.6		2 c	3 s	e.	se.	inap.	inap.	fair	**R. B. Watkins.**
Coleman City, Texas	28.14	714.7	30.02	762 5	32.8	0.4	85	s.	9	4.0		3 cs	0			0.02	0.5	clear	**J. B. Newlin.**
Columbus, Ohio	29.03	737.3	29.93	760.2	46	7.8	29	nw.	20	8.9		0	0			0	0	clear	**L. Dorman.**
Concho, Fort, Texas	28.04	712.2	30.06	763.5	36	2.2	69	se.	9	4.0		0	7 s		se.	0.13	3.3	fair	**D. Cuthbertson.**
Davenport, Iowa	28.83	732.3	29.54	750.3	35.4	1.9	49	w.	5	2.2		0	0			0	0	clear	**J. McGlone.**
Davis, Fort, Texas	25.21	640.3	30.19	766.8	34	1.1	72	w.	12	5.4			10 s			inap.	inap.	cloudy	**W. B. Lamar.**
Dayton, Washington T'y	28.38	720.8	30.18	766.6	41	5.0	70	sw.	12	5.4		0	0			0	0	clear	**J. Williams.**
Deadwood, Dakota	25.29	642.4	30.23	767.8	32	0.0	100	ne.	1	0.4			10 n			0.25	6.3	heavy snow	**D. Moore.**
Delaware Breakwater, Del	30.15	765.8	30.17	766.3	15	− 9.4	87	ne.	6	2.7			10 s			0.05	1.3	cloudy	**F. Willson.**
Denison, Texas	29.02	737.1	29.86	758.4	30	− 1.1	88	w.	2	0.9		0	4s; hz			0.13	3.3	fair	**T. S. Townsend.**
Denver, Colorado	24.66	626.4	30.18	766.6	49.0	9.4	31	n.	12	5.4		0	2 s			0	0	clear	**J. W. Byram.**
Des Moines, Iowa	28.63	727.2	29.60	751.8	27.0	− 2.8	79	s.	3	1.3			10 n			0.90	22.9	light snow	**F. M. Neal.**
Detroit, Michigan	29.12	739.6	29.88	758.9	20	− 6.7	56	w.	18	8.0			10 s		w.	inap.	inap.	cloudy	**F. W. Conrad.**
Dodge City, Kansas	27.42	696.5	30.17	766.3	37.8	3.2	82	se.	9	4.0			10 s		w.	0.02	0.5	cloudy	**C. F. R. Wappenhans.**
Dubuque, Iowa	28.70	729.0	29.47	748.5	28	− 2.2	59	nw.	16	7.2			10 s		nw.	0	0	cloudy	**V. P. Temple.**
Duluth, Minnesota	28.91	734.3	29.72	754.9	33.3	0.7	78	w.	5	2.2			10 s		w.	0.01	0.3	cloudy	**J. Harvey Smith.**
Eagle Pass, Texas	29.21	741.9	30.05	763.3	15	− 9.4	83	ne.	20	8.9			10 n		ne.	0.17	4.3	light snow	**N. B. Conger.**
Eagle Rock, Idaho	25.25	641.3	30.21	767.3	34.1	1.2	61	se.	1	0.4		0	0			0	0	clear	**F. Belford.**
Eastport, Maine	30.02	762.5	30.09	764.3	20	− 6.7	87	sw.	12	5.4			10 s			0.08	2.0	cloudy	**J. M. Clifford.**
Elliott, Fort, Texas	27.20	690.9	30.13	765.3	18.0	− 7.8	74	n.	10	4.5			10 s			0	0	cloudy	**D. C. Murphy.**
El Paso, Texas	26.32	668.5	30.20	767.1	30	− 1.1	71	nw.	28	12.5		0	0			0	0	clear	**W. J. Cundall.**
Erie, Pennsylvania	29.21	741.9	29.98	761.5	41.0	5.0	82	nw.	8	3.6		0	0			0	0	clear	**J. O'Dowd.**
Escanaba, Michigan	28.97	735.8	29.69	754.1	35	1.7	79	s.	10	4.5			10 s		sw.	0	0	cloudy	**Peter Wood.**
Fredericksburg, Texas	28.17	715.5	29.99	761.7	14.0	−10.0	100	n.	15	6.7			10 n		n.	0.02	0.5	light snow	**George Heathcote.**
Galveston, Texas	29.98	761.5	30.03	762.7	48	8.9	38	sw.	9	4.0		0	0			0	0	clear	**Frank Hulwegler.**
Grand Haven, Michigan	28.91	734.3	29.62	752.3	55	12.8	86	sw.	12	5.4		0	hz			0	0	clear	**E. O'C. MacInerney.**
Grant, Fort, Arizona	25.36	644.1	30.26	768.6	35.0	1.7	79	e.	13	5.8			10 s			inap.	inap.	threatening	**J. E. Mueller.**
Hatteras, North Carolina	30.21	767.3	30.23	767.8	35	1.7	58	e.	6	2.7		0	0		se.	0	0	clear	**Robert C. Lord.**
Helena, Montana	25.78	654.8	30.21	767.3	40	4.4	89	n.	10	4.5		9 k	0		ne.	0.60	15.2	cloudy	**R. M. Crawford.**
Henrietta, Texas	28.98	736.1	30.05	763.3	27	− 2.8	88	nw.	13	5.8			10 s			0	0	cloudy	**N. C. Smith.**
Huron, Dakota	28.41	721.6	29 95	760.7	43	6.1	51	n.	22	9.8		9 ck	0	n.		0	0	cloudy	**J. P. Sherry.**
Indianapolis, Indiana	28.86	733.0	29.70	754.4	11.2	−11.6	64	nw.	25	11.2			10 n			0.01	0.3	light snow	**S. W. Glenn.**
Indianola, Texas	29.99	761.7	30.02	762.5	38	3.3	73	s.	13	5.8		0	9 s		s.	inap.	inap.	cloudy	**J. F. Jirdinston.**
Jacksboro, Texas	28.90?	734.0?	30.14?	765.5?	49.0	9.4	93	s.	14	6.3		0	0			0	0	clear	**I. A. Reed.**
Jacksonville, Florida	30 13	765.3	30.18	766.6	44	6.7	68	nw.	14	6.3		0	0			0	0	clear	**D. J. Carr.**
Keogh, Fort, Montana	27 59	700.8	30.28	769.1	53	11.7	80	calm	0	0			10 s			0.42	10.7	cloudy	**J. W. Smith.**
Keokuk, Iowa	28.92	734.6	30.62	777.7	4	−15.6	76	calm	0	0		5 c	0	nw.		0.01	0.3	fair	**A. Schneider.**
					32.0	0.0	78	w.	20	8.9		6 cs	0	w.		inap.	inap.	fair	**F. Z. Gosewisch.**

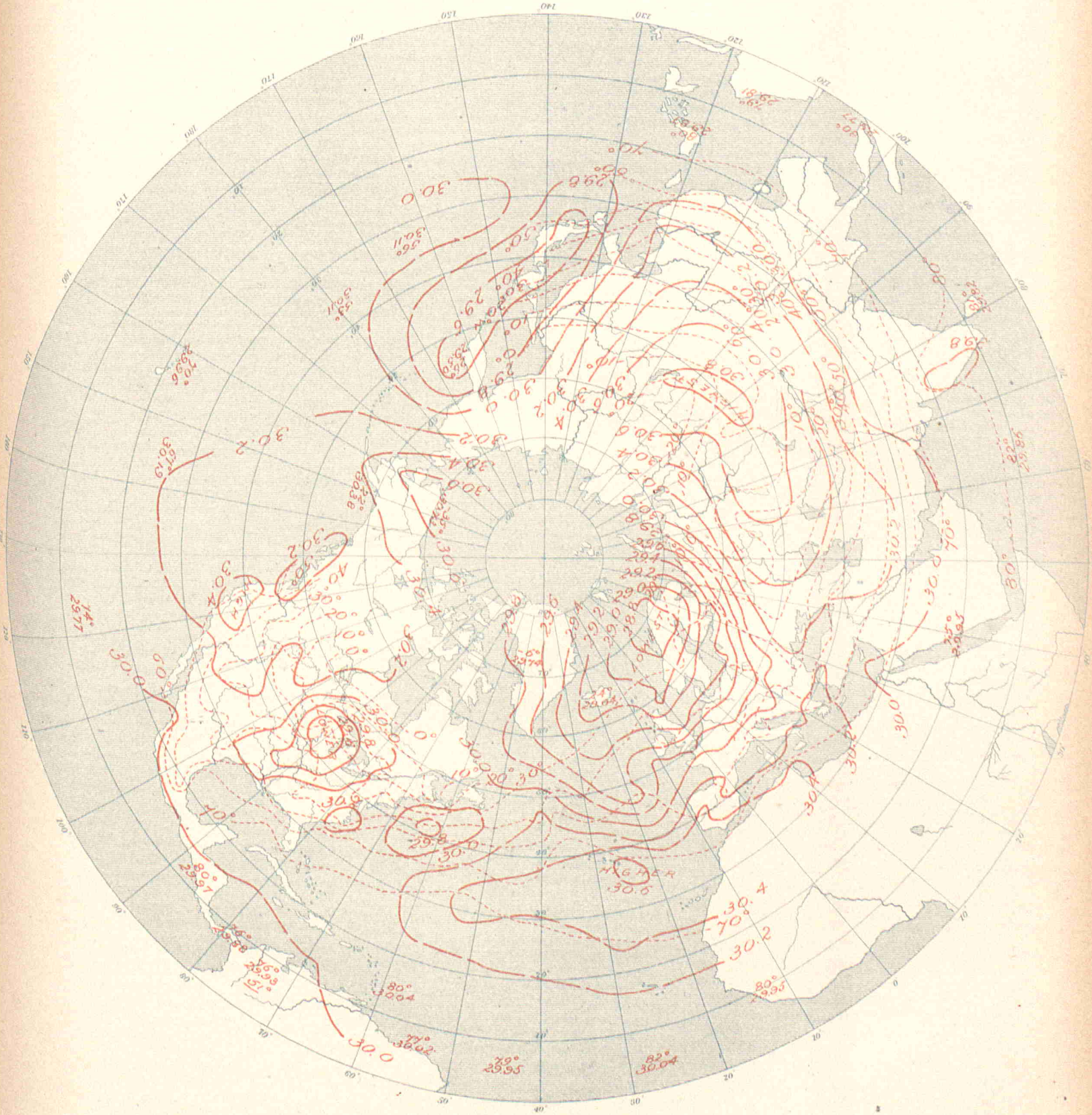
STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Key West, Florida	30.03	762.7	30.05	763.3	70.0	21.1	90	e.	8	3.6		4 cs	0			0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.23	767.8	30.25	768.3	35	1.7	89	n.	5	2.2			10s;fg			0.34	8.6	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.01	736.8	30.09	764.3	31.2	— 0.4	95	ne.	2	0.9		0	fg.			0	0	clear	J. A. Cody.
La Grosse, Wisconsin	28.54	724.9	29.38	746.2	34	1.1	71	se.	9	4.0			10 s			0.15	3.8	cloudy	S. C. Emery.
Leavenworth, Kansas	28.92	734.6	29.88	758.9	30	— 1.1	78	nw.	16	7.2		4 k	0	nw.		0.05	1.3	fair	A. W. Browne.
Lewiston, Idaho	29.36	745.7	30.23	767.8	33.5	0.8	88	s.	2	0.9			10 n			0.02	0.5	light snow	W. Bell.
Little Rock, Arkansas	29.45	748.0	29.78	756.4	51	10.6	52	s.	14	6.3			10 s		s.	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.81	757.2	30.21	767.3	48	8.9	56	n.	6	2.7		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.20	741.7	29.79	756.7	40	4.4	73	se.	16	7.2		0	6 s			inap.	inap.	fair	L. M. Dey.
Lynchburg, Virginia	29.45	748.0	30.17	766.3	33	0.6	88	calm	0	0			fg.			inap.	inap.	dense fog	Louis Duane.
Mackinaw City, Michigan	29.07	738.4	29.77	756.1	27.0	— 2.8	88	e.	10	4.5			10 n			0.05	1.3	light snow	F. R. Day.
Macon, Fort, North Carolina	30.22	767.6	30.23	767.8	39.0	3.9	100	n.	6	2.7		0	8 s		n.	0.57	14.5	cloudy	William Daly.
Madison, Wisconsin	28.37	720.6	29.46	748.3	31	— 0.6	88	se.	11	4.9			10 n			0.02	0.5	light snow	C. A. Shaw.
Maginnis, Fort, Montana	25.54	548.7	30.09	764.3	17	— 8.3	56	w.	4	1.8			10 n		w.	0.04	1.0	heavy snow	F. Burke.
McKavett, Fort, Texas																			J. E. Thatcher.
Marquette, Michigan	28.97	735.8	29.75	755.6	12	—11.1	80	se.	3	1.3			10 n			0.05	1.3	light snow	J. Gilligan.
Memphis, Tennessee	29.50	749.3	29.86	758.4	48	8.9	63	s.	10	4.5			10 s		s.	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	28.74	730.0	29.54	750.3	35	1.7	79	se.	20	8.9			10 s			0	0	cloudy	W. Line.
Missoula, Fort, Montana	26.76	679.7	30.22	767.6	25	— 3.9	76	nw.	3	1.3			10 s			0	0	threatening	I. H. Young.
Mobile, Alabama	30.06	763.5	30.10	764.5	43	6.1	96	calm	0	0		1 cs	fg.			0	0	clear	C. A. Read.
Montgomery, Alabama	29.86	758.4	30.10	764.5	39.5	4.2	94	se.	1	0.4		0	fg.			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.81	731.8	29.92	760.0	5	—15.0	100	n.	30	13.4			10 s			0.46	11.7	clear	H. Bessant.
Morgantown, W. Virginia	29.01	736.8	30.07	763.8	31.5	— 0.3	81	calm	0	0		0	3 s		sw.	inap.	inap.	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.61	599.7	30.24	768.1	16.0	— 8.9	87	n.	6	2.7		0	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.31	744.5	29.92	760.0	45.0	7.2	62	s.	10	4.5		6 cs	0	s.		0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.01	762.2	30.13	765.3	31	— 0.6	88	n.	4	1.8			10 s		n.	0.01	0.3	cloudy	J. H. Sherman.
New London, Connecticut	30.01	762.2	30.06	763.5	33	0.6	78	n.	4	1.8			9 s		sw.	0.03	0.8	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.06	763.5	49.0	9.4	68	se.	4	1.8		0	0			0	0	clear	L. Dunne.
Newport, Rhode Island	30.06	763.5	30.11	764.8	31.8	— 0.1	82	nw.	7	3.1			10 s		nw.	0.02	0.5	cloudy	W. McGillivray.
New York, New York	29.95	760.7	30.14	765.5	34	1.1	88	calm	0	0		0	6s;fg			inap.	inap.	fair	J. B. Merrill.
Norfolk, Virginia	30.20	767.1	30.23	767.8	32	0.0	100	nw.	1	0.4			fg.			1.12	28.4	dense fog	Wm. Davis.
North Platte, Nebraska	27.00	685.8	30.12	765.0	21.6	— 5.8	74	w.	18	8.0		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.13	765.3	30.17	766.3	44.0	6.7	93	s.	1	0.4			10 n			0.39	9.9	light snow	J. Dascomb.
Omaha, Nebraska	28.56	725.4	29.83	757.7	17.0	— 8.3	76	nw.	20	8.9			10 s			inap.	inap.	threatening	A. Pollak.
Ooglaamie, Alaska	30.70	779 8	30.73	780.5	—35.2	—37.3	100	ese.	2	0.9		0	0			0	0	clear	P. H. Ray.
Oswego, New York	29.69	754.1	30.04	763.0	24.0	— 4.4	61	s.	10	4.5		1 cs	0			0	0	clear	J. G. Linsley.
Palestine, Texas	29.37	746.0	29.95	760.7	46.0	7.8	68	s.	20	8.9		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.08	764.0	30.11	764.8	44.1	6.7	93	calm	0	0		0	5 s		w.	0	0	fair	M. McGauran.
Philadelphia, Pa	30.06	763.5	30.17	766.3	36.5	2.5	80	nw.	1	0.4		0	fg.			inap.	inap.	clear	T. T. Townsend.
Pike's Peak, Colorado	17.43	442.7	30.13	765.3	0	—17.8	62	nw.			6		10 ks			0.20	5.1	cloudy	H. Hall.
Pioche, Nevada	24.18	614.2	30.38	771.6	38.2	3.4	66	nw.	3	1.3		10 c	0			0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.20	741.7	30.05	763.3	35.0	1.7	79	s.	3	1.3		0	0			0	0	clear	W. A. Reid.
Poplar River, Montana	27.81	706.4	30.16	766.1				nw.			1	0	0			0.16	4.1	clear	W. D. Maxwell.
Port Eads, Louisiana	30.08	764 0	30.09	764.3	51.1	10.6	96	n.	6	2.7		1 c	4 s	w.	w.	0	0	fair	H. B. Boyer.
Port Huron, Michigan	29.15	740.4	29.88	758.9	32.3	0.2	75	se.	6	2.7			10 s			0	0	cloudy	W. O. Bailey.
Portland, Maine	30.06	763.5	30.11	764.8	24	— 4.4	73	n	9	4.0		4 cs;k	2 s	n.		0	0	fair	W. W. Elchelberger.
Portland, Oregon	30.06	763.5	30.13	765.3	50.8	10.4	93	s.	16	7.2			10 s		s.	0.16	4.1	cloudy	M. L. Hearne.
Portsmouth, N. C.					41	5.0	92	ne.			1		10 s		sw.	0.49	12.4	cloudy	F. S Coburn.
Prescott, Arizona	24.91	632.7	30.29	769.4	31.5	— 0.3	74	w.	2	0.9		8 c	0	w.		0	0	cloudy	W. H. Clendenon.
Provincetown, Mass.	30.04	763.0	30.07	763.8	32	0.0	78	n.	16	7.2			10 s		n.	0.10	2.5	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.09	764.3	30.10	764.5	64.5	18.1	81	n.	13	5.8			10 s		sw.	inap.	inap.	cloudy	W. J. Evans.
Red Bluff, California	30.06	763.5	30.43	772.9	42	5.6	100	nw.	4	1.8		5 c	0	nw.		0.05	1.3	fair	J. R. Williams.
Rochester, New York	29.30	744.2	30.01	762.2	31	— 0.6	94	s.	9	4.0		9 k	sk.	w.		0	0	cloudy	E. W. McGann
Roseburg, Oregon	29.83	757.7	30.40	772.1	52	11.1	86	sw.	5	2.2			10 n		w.	0.03	0.8	light rain	J. J. Nanry.
Sacramento, California	30.36	771.1	30.44	773.2	44.4	6.9	93	nw.	3	1.3		0	0			inap.	inap.	clear	J. A. Barwick.
St. Louis, Missouri	29.02	737.1	29.66	753.4	45.5	7.5	68	w.	8	3.6			10 s		w.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.59	777.0	30.03	778.0	—16	—26.7	100	n.	8	3.6		0	0			0.02	0.5	clear	A. P. Leavitt.
St. Paul, Minnesota	28.52	724.4	29.47	748.5	17	— 8.3	100	n.	21	9.4			10 n		n.	0.03	0.8	light snow	P. F. Lyons.
St. Vincent, Minnesota	29.08	738.6	30.06	763.5	9	—12.8	87	n.	22	9.8			10 n			0.01	0.3	light snow	C. B Dilley.
Salt Lake City, Utah	25.70	652.8	30.27	768.8	34	1.1	89	calm	0	0			10 n			0.42	10.7	light snow	J. Craig.
San Antonio, Texas	29.30	744.2	30.03	762.7	40.5	4.7	65	sw.	3	1.3		0	0			0	0	clear	T. J. Kenan.
San Diego, California	30.12	765.0	30.19	766.8	48.3	9.1	45	ne.	4	1.8		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.17	740.9	29.89	759.2	36	2.2	79	s.	14	6.3			10 s			0.04	1.0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.11	764.8	30.14	765.5	33.0	0.6	88	nw.	1	0.4		0	0			0.02	0.5	clear	B. A. Blundon.
San Francisco, California	30.36	771 1	30.43	772.9	51	10.6	96	ne.	1	0.4			fg.			0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.17	588.5	30.22	767.6	33	0.6	57	se.	5	2.2		7 k	3 s	sw.	sw.	0	0	cloudy	H. U. Jones.
Savannah, Georgia	30.08	764.0	30.18	766.6	50	10.0	71	w.	2	0.9		10 cs	0	w.		0.15	3.8	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.41	670.8	30.27	768.8	14	—10.0	83	w.	1	0.4			10 s			0.03	0.8	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.62	752.3	29.87	758.7	47	8.3	48	sw.	12	5.4		3 c	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.66	728.0	29.99	761.7	41.5	5.3	37	n.	24	10.7		3 k	0	nw.		0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.31	617.5	30.17	766.3	31.0	— 0.6	81	n.	4	1.8		3 c	0			0	0	clear	N. D. Lane.
Sitka, Alaska	30.12	765.0	30.19	766.8	32	0.0	78	ne.	6	2.7		0	0			0.15	3.8	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.30	744.2	29.80	756.9	50.5	10.3	46	n.	16	7.2			10 s		sw.	0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.18	766.6	30.22	767.6	40	4.4	100	n.	3	1.3			9s;fg		w.	0.20	5.1	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.14	714.7	30.28	769.1	32	0.0	88	calm	0	0			10 n			0.02	0.5	light snow	H. Clifford.
Springfield, Illinois	28.87	733.3	29.60	751.8	42	5.6	65	sw.	8	3.6			10 s		w.	inap.	inap.	cloudy	T. B. Jennings.
Springfield, Missouri	28.32	719.3	29.84	757.9	40.0	4.4	67	nw.	21	9.4			10 s		w.	0	0	cloudy	J. H. Bryce.
Starkville, Miss.	29.52	749.8	30.02	762.5	45	7.2	68	sw.	15	6.7		5 c	0	w.		0	0	fair	C. Dill.
Stevenson, Fort, Dakota	28.18	715.8	30.24	768.1	8	—13.3	80	nw.	14	6.3			10 s			0.20	5.1	cloudy	W. Burrows.
Stockton, Fort, Texas	26.96	684.8	30.10	764.5	44	6.7	27	sw.	12	5.4		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass.	30.08	764.0	30.14	765.5	31.5	— 0.3	83	n.	16	7.2			10 s			0	0	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.38	695.4	30.21	767.3	33	0.6	63	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.13	739.9	29.87	758.7	36	2.2	79	s.	5	2.2		7 cs	0	w.		0.03	0.8	fair	A. Buell.
Tucson, Arizona	27.71	703.8	30.21	767.3	33	0.6	71	se.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.84	757.9	30.23	767.8	35	1.7	89	calm	0	0			10 n			0.27	6.9	light snow	J. Daly.
Verde, Fort, Arizona					32.2	0.1	81	w.			1	6 cs	0	sw.		0	0	fair	D. Brooks.
Vicksburg, Mississippi	29.74	755.4	30.01	762 2	45.1	7.3	65	se.	11	4.9		2cs;hz	0			0	0	clear	James Kenealy.
Visalia, California	30.05	763.3	30.44	773.2	44.8	7.1	77	e.	2	0.9		8 cs	0	nw.		0	0	cloudy	O. D. Stewart.
Washakie, Fort, Wyoming	24.38	619.2	30.17	766.3	15.0	— 9.4	91	W	2	0.9			10 s			0.03	0.8	cloudy	T. M. Ambler.
Washington, D. C.	30.06	763.5	30.18	766.6	28.8	— 1.8	100	sw.	2	0.9			10s;fg			inap.	inap.	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.05	661.7	30.19	766.8	25.5	— 3.6	88	sw.	3	1.3			10 s			0.05	1.3	cloudy	F. H. Brandenburg.
Williamsport, Pa.	29.49	749.0	30.12	765.0	22	— 5.6	87	e.	2	0.9			fg.			0	0	dense fog	B. F. Hough.
Wilmington, N. Carolina	30.18	766.6	30.24	768.1	43	6.1	93	calm	0	0			10s;sk			0.18	4.6	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.82	655.8	30.36	771.1	42	5.6	68	sw.	20	8.9		0	8 s		w.	0	0	cloudy	J. Grover.
Yankton, Dakota	28.45	722.6	29.87	758.7	12	—11.1	80	nw.	32	14.3			10 ks		nw.	0.04	1.0	cloudy	J. H. Atfield.
Yuma, Arizona	29.99	761.7	30.14	765.5	44.5	6.9	64	ne.	3	1.3		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.02	559.3			51.0	10.6	65	n.	2	0.9		2 k	1 s	w.	n.	0	0	fair	Joaquim Gomez.
Kingston, Jamaica, W. I.	30.04	763.0	30.05	763.3	70	21.1	83	n.	1	0.4		0	1 s			0.02	0.5	fine	Robert Johnston.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	77	25.0	82	e.			2	4 c	3 s	e.		0.450	11.4		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.37	746.0	29.93	760.2	76	24.4	89	calm			0		10 ks		calm	0.05	1.3	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.																			Earl Flint.
St. Paul, Kodiak Id., Alaska	30.32	770.1	30.38	771.6	22	— 5.6	73	n.			3		4 ks			0	0	clear	W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe.
York Factory, B. A.	30.15	765.8	30.22	767.6	—26.0	—32.2		nw.	13	5.8		0	0			0	0	clear	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
British Naval.																	
H. M. S. Amethyst, Port Stanley, Falkland Island†	29.97	761.2	46.2	7.9	85	sw.			3	4							showery.
H. M. S. Audacious, Hong-Kong, China	29.81	757.2	64	17.8	83	calm			0	10	wsw.						misty
H. M. S. Boadicea, S. 11° 00′ W. 11° 00′	30.06	763.5				ese.			3-4	1							blue sky.
H. M. S. Champion, Singapore, Malay peninsula	29.77	756.1	80	26.7	95	var.			1	4							d. clouds.
H. M. S. Cleopatra, N. 31° 15′, E. 121° 29′	30.15	765.8	32.5	0.3		wnw.			3-4	10							squally.
H. M. S. Comus, S. 9° 55′, W. 78° 59′	29.92	760.0	69	20.6	95	sse.			1-2	8	s.				2	s.	misty.
H. M. S. Constance, S 28° 50′, W. 44° 40′	30.07	763.8	75	23.9	81	ene.			2	2					2	e.	blue sky.
H. M. S. Curacoa, Yokohama, Japan	29.68	753.9	36.5	2.5	100	n.			1	10							raining.
H. M. S. Crocodile, N. 18° 27′, E. 70° 40′	29.88	758.9	75	23.9	68	ne.			3	4	ne.				sm'h		d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.14	765.5	67	19.4	94	sse			2-3	3	sse.						d. clouds.
H. M. S. Dryad, N. 5° 50′, E. 80° 50′	29.82	757.4	81	27.2		nw.			1-2	8	n.				1	nw.	d. clouds.
H. M. M. Eclipse, N. 18° 54′ E. 72° 49′	29.75	755.6	77	25.0		nnw.			2-3	1							blue sky.
H. M. S. Fawn, S. 7° 55′ W. 14° 25′	29.97	761.2	81.5	27.5	78	se.			3	8							d. clouds.
H. M. S. Flying Fish, N. 25° 50′, E. 120° 40′	29.94	760.5	64	17.8	94	ne.			7	10					5	ne.	drizzling.
H. M. S. Fox Hound, Lubuan Island, Borneo	29.81	757.2	78.5	25.8		nnw.			4	7	n.				3	n.	d. clouds.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.94	760.5	58	14.4	76	calm			0	2							blue sky.
H. M. S. Heroine, S. 34° 10′, W. 52° 00′	30.02	762.5	73	22.8	85	n.			4	4					sm'h		d. clouds.
H. M. S. Himalaya, N. 12° 17′, E. 54° 24′	29.93	760.2	80	26.7	78	ene.			3-4	4					3	nw.	d. clouds.
H. M. S. Iron Duke, N. 33° 45′ E. 30° 44′	30.00	762.0	58	14.4	93	w.			1	4					1	w.	d. clouds.
H. M. S. Kingfisher, Callao Bay, Peru	29.90	759.4	68	20.0		calm			0	7	w.						misty.
H. M. S. Lark, S. 34° 50′, E. 174° 49′	30.30	769.6	66.3	19.1	97	ene.			2	10					sm'h		showery.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	29.50	749.3	52.1	11.2	87	wnw.			2-4	10					2	of'd	raining.
H. M. S. Monarch Port Said, Egypt	29.98	761.5	60	15.6	76	n.			1	1							blue sky.
H. M. S. Mutine, Honolulu, Sandwich Islands	29.94	760.5	72.5	22.5		calm			0	10							raining.
H. M. S. Rocket, S. 40° 00′, W. 74° 00′	30.10	764.5	62	16.7	88	ssw.			3	3							d. clouds.
H. M. S. Serapis, N. 20° 30′, E. 38° 30′	29.95	760.7	74.8	23.8	63	nnw.			3	3					2	nnw.	d. clouds.
H. M. S. Swiftsure, S. 3° 16′, W. 86° 25	29.89	759.2	70	21.1	100	ese.			2	4					3	s.	d. clouds.
H. M. S. Sylvia, Tuesday Bay, Patagonia	29.85	758.2	50	10.0	85	w.			3	10							misty.
H. M. S. Thetis, S. 30° 05′, W. 71° 33′	29.94	760.5	61	16.1	82	ssw.			2	10					2	ssw.	misty.
H. M. S. Tourmaline, Bombay, India	29.84	757.9				nnw.			2	0							blue sky.
H. M. S. Tyne, Sierra Leone, Africa	29.95	760.7	80	26.7	72	calm			0	0					2	ese.	misty.
Portuguese Naval.																	
Tamega, Macao, China	29.92	759.9	60.8	16.0	79	n.			3	10			8 h'r	8 h'r			drizzling.
United States Naval.																	
Navy Yard, Pensacola, Fla*	30.06	763.5	50	10.0	93	n.	3	1.3		8		nw.	0	0			fair.
Navy Yard, Portsmouth, N. H*	30.11	764.8	28	— 2.2	?	ne.	5	2.2		10		ne.	0	0			cloudy.
Naval Hospital, Yokohama, Japan*	29.65	753.1	33	0.6	95	n.			2	10		s.	0.39	9.9			rain & sleet.
Adams, Sitka, Alaska†	30.19	766.8	27	— 2.8	88	calm			0	0							clear.
Alaska, Mare Island, Cal	30.38	771.6	52	11.1	93	calm			0	0			0	0			foggy.
Alliance, N. 11° 23′, W. 80° 16′	29.93	760.2	79	26.1	80	nne.			4	5			0	0	mod.		fair.
Brooklyn, S. 44° 07′, W. 61° 05′*	29.98	761.5	58	14.4	76	sse.	8	3.6		2		sse.	0.01	0.3	sm'h		fair.
Colorado, New York, N. Y	30.18	766.6	32	0.0	100	w.	3	1.3		10							cloudy.
Enterprise, N. 23° 30′, W. 29° 00′ *	30.42	772.7	71	21.7	84	e.			5	8		se.			long	e.	cloudy.
Essex, Callao, Peru	29.85	758.2	67	19.4	90	calm			0	8		n.					fair.
Franklin, Norfolk, Va	30.20	767.1	35	1.7	80	sse.	2	0.9		10			0.12	3.0			foggy.
Galena, Montevideo, Uruguay*	29.91	759 7	72	22.2	80	n.			4	2		n.			mod.	nnw	fair.
Hartford, Callao, Peru*	29.83	757.7	65	18.3	100	calm			0	5					sm'h	s.	hazy.
Independence, Mare Island, Cal	30.44	773 2	49	9.4	100	calm			0	10			0	0			foggy.
Iroquois, S. 12° 46′, W. 80° 42′	29.90	759.4	74	23.3	85	sse.			3	2		s.			long	sse.	fair.
Jamestown, N. 31° 50′ W. 53° 31′	30.45	773.4	70	21.1	90	sse.			2	2					mod	s.	fair.
Juniata, Malta, Mediterranean*	30.29	769.4	60	15.6	100	s.			2	1			0	0			clear.
Kearsarge, Curacoa Island, W. I	29.99	761.7	79	26.1	95	ene.			3	8		e.			sm'h		cloudy.
Lackawanna, Honolulu, Sandwich Island*	29.96	761.0	70	21.1	90	sw.			2	10							cloudy.
Lancaster, N. 41° 54′, E. 4° 45′	29.99	761.7	56	13.3	93	n.			6	8		n.			mod.	n.	fair.
Michigan, Erie, Pa			47	8.3	92	s.			6	10		nw.					cloudy.
Minnesota, New York, N. Y	30.15	765.8	32	0.0	100	nw.	2	0.9		8							foggy.
Monocacy, Nagasaki, Japan	29.78	756.4	52	11.1	66	nnw.			3	10		calm					rainy.
New Hampshire, Newport, R. I			32	0.0	100	nnw.			1	10		calm			sm'h		cloudy
Nipsic, N. 26° 53′, W. 19° 59′	30.54	775.7	66	18.9	90	ene.			4	5		ene.			mod.	ene.	fair.
Onward, Callao, Peru*†	30.00	762.0	64	17.8	94	calm			0	10							foggy.
Palos, Tientsin, China*	30.22	767.6	23	— 5.0	100	nw.			3	0							clear.
Pensacola, S. 10° 12′. W. 78° 48′*	29.79	756.7	65	18.3	95	sse.			3	5		sse.	light	light	light	sse.	fair.
Portsmouth, N. 25° 15′, W. 57° 17′	30.30	769.6	74	23.3	85	ese.			5	2		e.			mod.	e.	clear.
Powhatan, Boston, Mass	30.11	764.8	30	— 1.1	100	nnw.			1	10							cloudy
Quinnebaug, Villefranche, France	30.07	763.8	56	13.3	74	w.			1	10		calm			long	se.	cloudy.
Ranger, N. 30° 55′, W. 116° 20′*	30.08	764.0	55	12.8	73	nw.			2	0			0	0	long	w.	clear.
Richmond, Hong-Kong, China*	29.78	756.4	64	17.8	89	w.			3	10		w	0.12	3.0			cloudy.
Saratoga, New York, N. Y	30.18	766.6	33	0.6	90	nnw.			1	8		nnw.	0	0			cloudy.
St. Louis, League Island, Pa	30.14	765.5	27	— 2.8	100	calm	0	0		2			0.01	0.3			misty.
Tennessee, St. Thomas Island, W. I*	30.07	763.8	76	24.4	81	e.	4	1.8		5			inap.	inap.	sm'h		fair.
Vandalia, Turks Island, W. I*	30.06	763.5	77	25.0	95	e.			3	5		e.					fair.
Wabash, Boston, Mass	30.10	764.5	30	— 1.1	78	wnw.	2	0.9		10		w.	0	0			cloudy.
Wachusetts, N. 25° 06′ W. 143° 40′	30.19	766.8	67	19.4	90	ese.			4	8		e.			mod.	se.	cloudy.
Wyandotte, Washington, D. C			46	7.8	100	s.			2	2		s.	0	0			fair.
Yantic, N. 17° 09′, W. 87° 07′	30.03	762 7	77	25.0	95	ene.			3	5					long		fair.
Merchant Marine.																	
S. S. Grecian, N. 18° 49′, W. 24° 44′*	30.24	768.1	74	23.3	76	e.			6	0			0	0	sm'h		hazy.
S. S. Scandinavian, Boston, Mass	30.12	765.0	29	— 1.7													blue sky.
S. S. Indiana, Philadelphia, Pa			40	4.4	82	sw.			3	2		sw.					fine.
S. S. Lord Clive, N. 44° 00′, W. 54° 10′						ene.			4	10			9 h'r	9 h'r	sh't	sw.	rainy.
S. S. Lord Gough, N. 47° 14′, W. 52° 50′	30.02	762.5	29	— 1.7		e.			3	10		e.	snow	snow	sm'h		heavy snow
S. S. Ohio, N. 53° 32′, W. 2° 58′†	29.36	745.7	41	5.0	91	w.			4	6		sw.			mod.	sw.	fair.
S. S. Auchoria, N. 41° 28′ W. 66° 29′†	29.83	757.7				n.			4	10		ne.	shr's	sh'rs	sm'h		snowing.
S. S. Bolivia, N. 44° 42′, W. 52° 45	29.98	761.5	37	2.8	100	ese.			2	10			24 h'r	24 h'r	sm'h		raining.
S. S. Dorian, N. 42° 20′, W. 36° 00′*	30.14	765.5	60	15.6		wsw.			7	10		w.	6 h'r	6 h'r	r'gh	w.	
S. S. Utopia, N. 48° 01′ W. 42° 13′†	30.29	769.4	42	5.6		n.			4	10		nne.	rain	rain	h'vy	ne.	dull.
S. S. Ailsa, N. 15° 42′, W. 76° 31′†	30.10	764.5	82	27.8	91	ene.			5	2		ene.	0	0	r'gh	ene.	fair.
S. S. Antillas, N. 40° —′, W. 74° —′						n.			5	5		n.	sh'rs	sh'rs	mod.	n.	drizzling.
S. S. Ambrose, Amazon River, Brazil†	29.94	760.5	80	26.7		var.			2-7	8		ne.	5 h'r	5 h'r			cloudy.
S. S. Landaff City, N. 48° 45′, W. 37° 50′ *†	30.12	765.0	44	6.7		nnw.			6	9		w.	sh'rs	sh'rs	sm'h	w.	cloudy.
S. S. Auckland, S. 28° 43′, W. 16° 21′	30.17	766.3	74	23.3	86	w.			3	6							showery.
S. S. British Merchant, N. 11° 58′, W. 123° 30′	29.77	756.1	74	23.3	93	ene.			4	9							showery.
S. S. Caldew, S. 34° 34′, E. 22° 57′	29.90	759.4	70.2	21.2	85	e.			5	0							misty.
S. S. City of Agra, S. 18° 40′, W. 30° 17′	30.05	763.3	81.2	27.3	91	nne.			5	6							d. clouds.
S. S. May Hulse, S. 39° 25′, W. 56° 20′	29.84	757.9	63	17.2	83	n.			4	7							misty.
S. S. Scotia, N. 9° 46′, E. 62° 54′	29.86	758.4	81.8	27.7	61	nne.			3	5							d. clouds.
S. S. Lake Huron, N. 50° 22′, W. 26° 33′			43	6.1		nw.			5	10		wnw.	2 h'r	2 h'r	mod.	wnw.	
S. S. Gallia, N. 50° 12′, W. 18° 42′	29.67	753.6	48	8.9	73	sw.			5	10		w.	rain	rain		w.	squally.
S. S. Marathon, off Ballycottin, Ireland	29.80	756.9	47	8.3		w.			5	3		w.	3 h'r	3 h'r	sm'h	w.	fine.
S. S. Parthia, N. 47° 30′, W. 36° 01′	30.14	765.5	47	8.3	77	wnw.			3	10		s.	5 h'r	5 h'r	long	s.	overcast.
S. S. Colina, N. 42° 15′, W. 49° 08′†	30.06	763.5				s.			6	8		wsw.			long	sw.	hazy.
S. S. Canada, N. 48° 38′, W. 35° 00′	30.06	763.5	41.0	5.0		nw.			4	ck	0	nw.	0	0	sm'h		covered.
S. S. Labradore, N. 49° 51′, W. 11° 53′*†	30.00	762.0	41	5.0		wsw.			7		7		wsw.	rain	rain	h'vy	sw.
S.S. Arizona, N. 51° 11′, W. 16° 37′	29.76	755.9	47	8.3		wsw.			3		3		w.	0	0	long	wnw. fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																	
S. S. Wisconsin, N. 48° 56′, W. 38° 15′			40	4.4		nnw			5		5	n.	12 h'r	12 h'r	mod.	nw.	snowing.
S. S. Bohemia, Hamburg, Germany						sw.			8		7	sw.	0	0			
S. S. Rugia, N. 46° 22′, W. 41° 38′	30.35	770.9	37	2.8		n.			3		5	n.	2 h'r	2 h'r	4	sw.	fair.
S. S. Silesia, Hamburg, Germany			49.2	9.6		wsw.			4		4	wsw.	0	0			fair.
S. S. Vandalia, Hamburg, Germany	29.57	751.1	47.0	5.0		wsw.			4		10	wsw.					cloudy.
S. S. Mentmore, N. 42° 22′, W. 50° 17′ *	29.98	761.5				sw.			5		8	sw.	0	0	mod.	sw.	dull.
S. S. Hevelius, S. 25° 15′, W. 42° 30′†	30.14	765.5	77	25.0		sse.			4		6	ssw.	1 h'r	1 h'r	sm'h		showery.
S. S. Colorado, N. 34° 35′, W. 74° 51′†	30.20	767.1	65	18.3		nne.			5		10	sw.	hv'y	hv'y	mod	ne.	cloudy.
S. S. Rio Grande, N. 38° 30′, W. 74° 00′†	30.22	767.6	41	5.0		nw.			3		10	nw.	4 h'r	4 h'r	long	ene.	foggy.
S. S. San Marcos, Galveston, Texas	30.13	765.3	53	11.7					1				0	0			
S. S. Archimede, Palermo, Sicily†	30.21	767.3	62	16.7	72	ne.			2		1	nne.	0	0			clear.
S. S. Hermod, N. 40° 00′, W. 70° 32′†	30.04	763.0	39.2	4.0		n.			4		8	nne.	5 h'r	5 h'r	r'gh	var.	cloudy.
S. S. Alleghany, Norfolk, Va†	30.28	769.1	42	5.6		sw.			2		8		0	0			foggy.
S. S. Dominion, N. 48° 14′, W. 46° 41′ *†	30.24	768.1	33	0.6		wnw.			2		10	w.	0	0	light	sse.	gloomy.
S. S. Chalmette, Algiers, La†	30.00	762.0	49	9.4		se.			1		0		0	0			clear.
S. S. New York, N. 26° 30′, W. 85° 50′†	30.15	765.8	70	21.1		ne.			6		10	ne.	0	0	mod.	ne.	overcast.
S. S. Egypt, N. 40° 23′, W 76° 31′*†	30.20	767.1				nw.			4		5	w.	0	0	sm'h	nw.	fair.
S. S. Erin, N. 49° 45′, W. 30° 28′	29.66	753.4	39	3.9		nnw.			6		10	ne.	4 h'r	4 h'r	r'gh	nw.	fine.
S. S. Greece, N. 41° 56′, W. 50° 57′	29.96	761.0	45	7.2		ssw.			5		9	sw.	15 h'r	15 h'r	hmp'y	sw.	misty.
S. S. Helvetia, Liverpool, Eng	29.36	745.7	43	6.1		nw.			6		5	nw.	rain	rain			hailing.
S. S. City of Alexandria, Havana, Cuba, W. I.			74	23.3	90	se.			3		2	se.	0	0	mod.	se.	clear.
S. S. City of Merida, N. 35° 15′, W 75° 00′†	30.27	768.8				n.			3		10	n.	12 h'r	12 h'r	light	n.	cloudy.
S. S. Braunschweig, S. 10° 31′ W. 35° 16′	29.93	760.2	83.5	28.6	89	nne.			4		5	ne.	2 h'r	2 h'r	light	ne.	fair.
S. S. Gen. Werder, N. 47° 16′, W. 36° 28′	30.01	762.2				wnw.			5		7	w.	7 h'r	7 n'r	r'gh	var.	fair.
S. S. Hermann, N. 49° 25′, W. 12° 50′	29.88	758.9	47	8.3		wnw.			4		10	w.	rain	rain	6	wnw.	covered.
S. S. Hohenstaufen, N. 23° 01′, W. 22° 23′	30.34	770.6	69.8	21.0		ne.			5		0		0	0	r'gh	ne.	clear.
S. S. Hohenzollern, N. 7° 10′ W. 28° 45′	30.03	762.7				ene.			5		0				mod.	ene.	fair.
S. S. Main, N. 41° 00′, W. 62° 00′	29.72	754.9	41.0	5.0		ene.			3		10		24 h'r	24 h'r	high	var.	raining.
S. S. Neckar, Off Start, Eng	29.86	758.4	42.0	5.6	91	w.			6		5	w.	rain	rain	cross	w.	squally.
S. S. Salier, Sandy Hook, N. J	30.21	767.3	32	0.0		calm			0		0		0	0	sm'h		clear.
S. S. Arabic, N. 35° 32′, W. 177° 56′*†	30.11	764.8	53	11.7	100	se.			5		2?	sse.	shr's	shr's	mod.	se.	cloudy?
S. S. Belgic, Hong Kong, China *†	29.83	757.7	68	20.0	84	nw.			4		10	nw.	0	0	mod	ne.	cloudy.
S. S. Gaelic, N. 27° 51′, E. 124° 22′	29.97	761.2	52	11.1	100	nnw.			6		10	n.	4 h'r	4 h'r		ne.	
S. S. Oceanic, San Francisco, Cal†	30.51	774.9	54	12.2	93	var.			1								cloudy.
S. S. City of Augusta, New York, N. Y†	30.23	767.8				nne.			7		10		0	0			cloudy.
S. S. Mississippi, Portland, Oregon *†	30.17	766.3	60	15.6		sw.			2		10	sw.					light rain.
S. S. Oregon, N. 44° 02′, W. 124° 18′†	30.35	770.9	50	10.0	93	ssw.			4		8	sws					cloudy.
S. S. Ancon, N. 34° 42′ W. 120° 43′ †	30.26	768.6	60	15.6	65	n.			5		0				mod.	wnw.	clear.
S. S. City of Chester, San Francisco, Cal *†	30.42	772.7	52	11.1	86	calm			0		10						foggy.
S. S. G. W. Elder, Port Townsend, Wash. Ter†	30.24	768.1	79	26.1	82	nw.			3		4?		0	0			overcast.?
S. S. Queen of the Pacific, Portland, Oregon†	30.14	765.5				s.					8						cloudy.
S. S. State of California, Portland, Oregon †	30.16	766.1	51	10.6	79	s.			4		10	se.					raining.
S. S. Victoria, San Francisco, Cal *†	30.46	773.7	51	10.6		ese.			3		2	ene.					foggy.
S. S. Australia, S. 10° 58′, W. 169° 06′ *†	29.70	754.4	79	26.1	86	ese.			3		7	se.	2 h'r	2 h'r	mod	se.	squally.
S. S. City of Pekin, N. 31° 49′ E. 147° 24′†	30.04	763.0	55	12.8	80	se.			3		10	se.			mod.	w.	cloudy.
S. S. City of Rio de Janeiro N. 11° 50′, W. 87° 44′ *†	30.17	766.3	80	26.7	70	ne.			5		2	e.	0	0	mod.	ene.	clear.
S. S. City of Sydney, Sydney, N. S. W †	29.84	757.9	70	21.4	82	nw.			2		5?	w.	0	0	sm'h		cloudy.?
S. S. City of Tokei, N. 32° 31′, E. 163° 13′†	30.11	764.8	56	13.3	75	nne.			4		8	nne.	light	light	mod.	nne.	overcast.
S. S. Colon, N. 28° 28′, W. 74° 00′ †	30.12	765.0	68	20.0		ene.			4		10	ne.	0	0	small	e.	overcast.
S. S. Grenada, Panama, Panama †	29.88	758.9	70	21.4	86	nw.			1		2	nw.	0	0	sm'h	nw.	clear.
S. S. San José, N. 34° 50′, W. 121° 00′ *†	30.25	768.3				nw.			3		0		0	0	h'vy	wnw.	clear.
S. S. Zealandia, S. 33° 30′. E. 170° 10′*	30.22	767.6	71	21.7	90	nne.			3		1	n.					fine.
S. S. Caracas, N. 37° 40′, W. 72° 50′ †	30.23	767.8	57.5	14.2	84	nnw.			6		10	nnw.	0	0	rg'h	n.	cloudy.
S. S. Valencia, Puerto Cabello, Venzuela †	30.03	762.7	79	26.1	78	sw.			1		0	e.	0	0			fair.
S. S. Belgenland, Jersey City, N. J†	30.25	768.3	33	0.6	89	var.			2		3	wnw.	2 h'r	2 h'r			clear.
S. S. Pennland, N. 42° 32′, W. 57° 10′	29.90	759.4	45	7.2	?	nne.			3		10		rain	rain		ne.	cloudy.
S. S. Rhynland, N. 50° 00′, W. 9° 30′	29.90	759.4	49	9.4	93	wnw.			0		5	wnw.			high	nw. n	squally.
S. S. Switzerland, N. 47° 29′, W 45° 22′ †	30.16	766.1				n.			1		10	n.	sleet	sleet	long	sw.	cloudy.
S. S. Waesland, N. 49° 41′, W. 7° 35′	29.90	761.0	41	5.0		wsw.			6		2	wsw.	rain	rain	high	w.	clear.
S. S. Leerdam, N. 44° 20′, W. 53° 52′†	29.93	760.2	41	5.0	82	ese.			3		10	e.	17h'r	17h'r	sm'h	w.	drizzling.
S. S. Maas, Rotterdam, Holland			43	6.1		wsw.			6		6	ne.	0	0			
S. S. Schiedam, N 46° 19′ W. 42° 22′	30.16	766.1	47.5	8.6	89	nne.			4		9	ne.	9 h'r	9 h'r	long	sw.	cloudy.
S. S. W. A. Scholten, Brouwershaven, Ger			40.0	4.4	82	ssw.			6		4	sw.	2 h'r	2 h'r	sm'h	sw.	
S. S. Zaandam, N. 47° 16′, W. 37° 00′	30.10	764.5	53	11.7		nw.			4		8 n	nw.	8 h'r	8 h'r	3	wnw.	
S. S. State of Florida, N. 45° 50′, W. 44° 39′			42	5.6		e.			3		9	calm	to h'r	to h'r	mod.	sw.	overcast.
S. S. State of Georgia, N. 45° 05′, W. 50° 41′†	30.08	764.0	33	0.6		ese.			3		10		7 h'r	7 h'r	short	sw.	heavy rain.
S. S. State of Indiana, N. 54° 50′ W 15° 30′†	29.52	749.8	42	5.6		wnw.			7		4	wnw.	8 h'r	8 h'r	r'gh	w.	squally.
S. S. Iowa, N. 51° 07′, W. 13° 12′ *†	29.90	759.4	44	6.7		wsw.			4		1	wsw.	12 h'r	12 h'r	long	w.	clear.
S. S. Britannic, N. 50° 21′, W. 30° 44′ †	29.73	755.1	40	4.4	?	nnw.			3		2	wnw.	hail	hail	mod.	nw.	threatening.
S. S. Republic, N. 44° 40′, W. 45° 10′†	30.18	766.6	45	7.2	100	nw.			3		10	w.	6 h'r	6 h'r	3	sw.	d. clouds.
S. S. Marengo, N. 43° 06′, W. 56° 15′						ne.			6		10	ne.	6 h'r	6 h'r	mod.	ne.	raining.
S. S. Otranto, N. 44° 03′ W. 61° 48′†	30.03	762.7	28	—2.2		ene.			4		10	ene.			short	nnw.	sleeting.
S. S. Romano, New York, N. Y*†	30.18	766.6	34	1.1		n.			3		5		snow	snow			fair.
S. S. Salerno, N. 48° 36′, W. 28° 46′			42	5.6		nne.			6		9	n.	2 h'r	2 h'r	r'gh	n.nw	cloudy.
S. S. Catherine Whiting, Philadelphia, Pa †	30.13	765.3				calm			0				0	0			
S. S. Norman, N. 42° 23′, W. 71° 05′†	30.10	765.1				s.			1			s.	0	0			cloudy.
S. S. Saxon, Philadelphia, Pa †	30.23	767.8	32	0.0		calm			0		10		0	0			dense fog.
MISCELLANEOUS																	
Schr. Abbie H. Gheen, Spring Wood Mills, S. C †	30.25	768.3	42	5.6		e.			1				0	0			cloudy.
Bg. Alcira, N. 11° 05′, W. 71° 34′	29.99	761.7				ene.			3		1		0	0	sli't	ne.	clear.
Bk. Alpha, Demerara, British Guiana *†	29.98	761.5	82	27.8		ene.			4		4		0	0			fair.
S. Armenia, N. 39° 00′, W. 70° 10′ *	29.94	760.5	47	8.3	80	nnw.			5		10		0	0	r'gh	e	overcast.
Schr. Anna A. Holton, Tampico, Mexico †	30.07	763.8	66	18.9		sw.			2		0		0	0	sm'h		clear.
Bk. Anna Thormann, S. 5° 43′, W. 20° 00′	30.22	767.6				ne.			6●		8	ne.	8 h'r	8 h'r	mod.	ne.	squally.
S. S. Antonio Lopez, Cadiz, Spain	30.04	763.0	80.1	26.7	69	ese.			4		3 k	se.	0	0	mod.	se.	fair.
Bg. Arthur, S. 32° 08′, W. 51° 19′ *†						w.			6		0		1 h'r	1 h'r			clear.
Schr. Annie R. Lewis, St. Pierre, W. I †	30.16	766.1				ene.			7		2	nne.	0	0	mod.	ene.	
Bk. B. F. Watson, Hong Kong, China†	30.14	765.5	80	26.7		ne.			1		8	ene.	0	0			cloudy.
Bkt. Bonny Doon, N. 25° 40′, W. 45° 05′ *†	29.75	755.6	68	20.0		nw.			4		0		0	0			foggy
Bk. Bremen, N. 22° 43′, W. 49° 23′ *	30.30	769.6				e.			3		2	ese.	6 h'r	6 h'r			
Bk. Champion, Reedy Id., Delaware Bay	30.26	768.6				e.			2		2		0	0	long	n.	cloudy.
S. Commerce, Cadiz, Spain†			40	4.4		ssw.			5		2		rain	rain	cross	var.	clear.
S. Cornelius, N. 57° 35′, E. 2° 59′*†	30.25	768.3	56	13.3		wnw.			3		2	ssw.	snow	snow			fair.
Bkt. C. S. Bushnell, N. 37° 41′, W. 48° 22′	29.30	744.2	42.1	5.6		wsw.			3		2	wnw.	½h'r	½h'r			fine.
S. S. D. J. Foley, N. 22° 06′, W. 74° 22′ *†						sw.			6		4	w.	2 h'r	2 h'r	h'vy	w.	hailing.
S. E. B. Sutton, N. 7° 00′, W. 28° 00′ †.	30.07	763.8	79	26.1	95	e.			5		1		0	0	sm'h	w.	fine.
Bk. E. D. Bigelow N. 41° 40′, W. 30° 40′ *†	30.04	763.0	78	25.6	86	ene.			5		7	e.			mod.	ese.	raining.
Schr. Edith R. Seward, N. 21° 50′, W. 08° 15′†	30.15	765.8				wsw.			4		7	e.	0	0	mod.	ene.	fair.
Bk. Edmund Phinney, S. 37° 48′, W. 51° 53′†	30.16	766.1	80	26.7		ese.			9		5	wsw.	0	0	cross	wsw.	hazy.
S. E. J. Spicer, N. 46° 48′, W. 19° 15′	30.05	763.3				nw.			2		3	ese.	0	0	short	ese.	clear.
Bk. E. L. Pettingill, S. 54° 20′, W. 60° 13′ *†	29.45	748.0	54	12.2	?	sw.			5		2	nnw.	0	0	rg'h	nnw	clear.
Bk. Essex, S. 19° 10′. E. 38° 53′ *†	29.70	754.4	46	7.8		wnw.			8		10	wnw.	rain	rain	high	nw.	heavy rain.
Schr. F. E. McDonald, Jacksonville, Fla †	29.72	754.9	78	25.6		sse.			5		8	w.	0	0	sm'h	sw.	overcast.
	30.09	764.3				calm			7						h'vy	s.	raining.
									0		10		6 h'r	6 h'r			fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
S. Festina Lente, N. 56° 45′, E. 3° 17′†	29.17	740.9	40	4.4		wsw.			6–7		6		wsw.	snow	snow	mod.	wsw.	squally.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†.	30.15	765.8	29	—1.7		nne.			1		10		calm					foggy.
S. S. Foscolia, London, Eng						w.			9		2		wnw	0	0			fair.
Bk. Freya, Matanzas, Cuba, W. I						ne.			2		1		ne.	1 h'r	1 h'r			hazy.
S. Geo. Stetson, S. 36° — W. 52° —′ *†	29.98	761.5	75	23.9	77	nw.			5		1		w.	0	0	chop	sw.	clear.
S. Grecian, N. 13° 15′ W. 35° 50′†.	30.12	765.0	74	23.3	76	ene.			6		4		e.	0	0	mod.	ene.	hazy.
Bk. Grey Eagle, S. 1° 25′, W. 37° 25′*†	29.85	758.2				e.			6		1		ne.	0	0	mod	ne.	clear.
Bk. Gronsvaer, Auckland, New Zeland	30.29	769.3	69.9	21.1		ene.			3		10		ne.	12 h'r	12 h'r			light rain.
Bk. Hattie G. McFarland, N. 15° 58′, W. 68° 40′*†	30.15	765.8	78	25.6		e.			4		4		e.	0	0	sm'h	e.	
Schr. Hattie Weston, N. 10° 06′, W. 61° 45′ *†	30.08	764.0	78	25.6		e.			4		8		e.	2 h'r	2 h'r	short	ese.	cloudy.
Bk. Heinrich & Tonio, N. 29° 11′, W. 50° 13′			72	22.2		e.			3		2		e.	3 h'r	3 h'r	light	e.	clear.
Bk. Horace Scudder, N. 33° 02′, W. 61° 19′*†	30.22	767.6	68	20.0		ssw.			6		8					h'vy	se.	fine.
Schr. Isabel Alberto, New York, N. Y†	30.20	767.1				nw.			1		0			rain	rain			clear.
Schr. James Slater, N. 4° 27′, W. 45° 40′ *†	29.95	760.7	79	26.1		ne.			4		10		ene.	3 h'r	3 h'r	mod.	ene.	rainy.
Bk. Johanne, N. 19° 25′, W. 53° 26′ *†	30.10	764.5	77	25.0		ene.			5		8		var.	0	0	mod.	ene.	fine.
Schr. John L. Thomas, N 15° 26′, W. 83° 16′*†	30.08	764.0				ene.			2		1		ene.	0	0	mod.	ene.	clear.
Bg. John Wesley, S. 37° 02′, W. 4° 37′†	29.92	760.0	72	22.2	85	n.			5		10			2 h'r	2 h'r	mod.	w.	sprinkling.
Bkt. Josephine, Off Brazos, Texas*†	29.96	761.0	60	15.6		s.			1		5?		sw.	0	0	sm'h		clear?
Light House Tender, Laurel, Key West, Fla†	30.04	763.0	72	22.2		e.			1		4		ese.	0	0			fair.
Bg. Lilian, N. 33° 05′, W. 74° 50′†	30.23	767.8	61	16.1		nne.			4		10		var.	6 h'r	6 h'r	cross	n.	cloudy.
Bk. Louise Adelaide, Matanzas, Cuba, W. I*†	30.30	769.6				e.			1		7		e.	1 h'r	1 h'r	sm'h		cloudy.
Bg. L. & W. Armstrong, N. 37° 03′ W. 67° 35′*†	29.92	760.0				wsw.			7		8		w.	4 h'r	4 h'r	r'gh	sw.	heavy rain.
S. S. Malabar, N. 37° 19′, W. 65° 39′ *†	29.97	761.2				w.			9				w.	13 h'r	13 h'r	h'vy	sw.	cloudy.
Bk. Mary A. Troop, N. 51° 10′, W. 7° 00′*†	29.68	753.9				nnw.			10		3		nnw.	6 h'r	6 h'r	r'gh	nw.	threatening.
Schr. Minnie A. Bonsall, Mayport, Fla†	30.20	767.1	66	18.9		ne.							ne.					
S. M. P. Grace. S. 7° 23′, W. 32° 50′ *	29.96	761.0	81	27.2		ne.			2–5		2		ene.	0	0	short	ne.	
Bg. Myrtle, N. 17° 30′, W. 63° 20′ *†	29.95	760.7				ene.			4		1		ene.	4 h'r	4 h'r	sm'h		fair.
Bkt. Norena, Matanzas, Cuba, W. I †.	30.16	766.1				n.			3		0			0	0	mod.	ne.	fine.
Schr. Ocean Traveler, St. John, Antigua, W. I*†	30.07	763.8				e.			5		5							fair.
Bk. Ottawa, Alicante Harbor, Spain*	30.07	763.8	57	13.9		w.			5		8		wsw.	½h'r	½h'r			cloudy.
S Paramita, San Francisco, Cal†	30.41	772.4	46	7.8		calm			0					0	0			foggy.
S. S. Raleigh, N. 30° 00′, W. 79° 00′ *†	30.00	762.0	68	20.0		nnw.			2		8		nnw.	0	0	mod	nw.	fine.
Bk. Reindeer, Martinique, W. I*	30.16	766.1				ene.								0	0			squally.
S. Rudolph, N. 41° 57′, W. 29° 49′			58.0	14.4		wsw.			8		10		var.	0	0	h'vy	wsw.	cloudy.
S. Sacramento. S. 35° 36′, W. 22° 00′ *†	30.35	770.9	67	19.4	69	s.			3		2		s.	0	0	var.		fine.
Bk. Saga, N. 40° 54′, W. 53° 03′			63	17.2		sw.			6				w.	7 h'r	7 h'r	6	wsw.	
Schr. S. B. Hubbard, Mayport, Fla *†	30.25	768.3	68	20.0		calm			0		10			6 h'r	6 h'r			clearing.
Bk. Southern Belle, N. 33° 35′. W. 74° —′ *†	30.10	764.5	60	15.6		n.			5		10		nne.	h'vy	h'vy	r'gh		cloudy.
S. Sovereign of the Seas, S. 31° 21′, W. 126° 55′*†	30.26	768.6	70	21.1	90	ne.			3		7		var.	0	0	long	sw.	
Bk. Sunbeam, Lisbon, Portugal *†	30.45	773.4	58	14.4	76	n.			6		2?		n.	8 h'r	8 h'r			cloudy?
S. Titan, S. 2° 56′, W. 30° 33′*†	30.01	762.2	82	27.8	87	ese.			5		1		ese.	0	0	sm'h	ese.	fine.
Bk. Wandering Jew, Montevideo, Urnguay†	29.96	761.0	73	22.8		n.			7		4		n	0	0			clear.
Schr. Wm. Wiler, Point a Petre, Gaudeloupe†	30.01	762.2				n.			1		8		e.	2 h'r	2 h'r			raining.
Bk. Xenia, N. 2° 45′, W. 28° 11′*†	30.04	763.0	82	27.8		ese.			6		1		ese.	0	0	sm'h	ese.	clear.

International Chart I. January 30, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 31, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.28	769.1	62.2	16.8	88	ne.	.....	.....	6	.....	2	.....	.....	inap.	inap.	fair	Malaterre.
Algiers	.....	.....	30.17	766.3	56.8	13.8	53	sw.	.....	.....	6	.....	10	.....	.....	0.173	4.4	covered	Thève.
La Calle	.....	.....	30.11	764.9	57.2	14.0	71	w.	.....	.....	5	.....	5	.....	.....	0.217	5.5	cloudy	Fonfrède.
Tunis	.....	.....	30.12	765.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.25	768.4	65.1	18.4	69	w.	.....	.....	3	.....	1	.....	.....	0	0	very fair	Pérès.
Tebessa	.....	.....	30.27	768.9	50.4	10.2	79	w.	.....	.....	3	.....	2	.....	.....	0	0	fair	Dognon.
Geriville	.....	.....	.....	.....	55.0	12.8	24	nnw.	.....	.....	4	.....	2	.....	.....	0	0	fair	Lonchamp.
Laghouat	.....	.....	30.25	768.4	57.9	14.4	29	s.	.....	.....	6	.....	3	.....	.....	0	0	pretty fair	Abraham.
Biskra	.....	.....	30.30	769.5	62.6	17.0	26	nw.	.....	.....	4	.....	7	.....	.....	0	0	very cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.90	759.4	29.99	761.7	58.0	14.4	67	sse.	6	2.7	.....	.....	2	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.24	742 8	29.80	756.9	48.6	9.2	61	e.	.....	.....	2	.....	6	.....	.....	0.008	0.2	.....	Prof. Ivan Stczir.
Cracow, I. R Observatory	29.04	737.7	29.83	757.6	38.5	3.6	90	ene.	3.8	1.7	.....	.....	10	.....	.....	0.079	2.0	.....	Dr. Wierzbiski.
Eperies	28.99	736.3	29.90	759.5	34.7	1.5	80	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.58	725.8	29.86	758.4	36.9	2.6	90	e	.....	.....	1	.....	10	.....	.....	0.028	0.7	.....	Andreas Rospini.
Hermannstadt	28.48	723.5	29.95	760.8	39.6	4.2	74	sw.	.....	.....	1	.....	5	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.32	719.2	29.69	754.2	40.6	4.8	93	ne.	.....	.....	2	.....	10	.....	.....	0.020	0.5	gloomy	The Staff.
Lemberg	28.90	734.0	29.92	759.9	37.0	2.8	72	s.	.....	.....	1	.....	10	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.41	670.9	29.87	758.6	29.8	— 1.2	76	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	29.59	751.6	29.71	754.5	51.8	11.0	80	se.	.....	.....	5	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.43	747.6	29.88	759.0	42.1	5.6	60	se.	.....	.....	2	.....	9	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.61	752.0	29.90	759.4	38.8	3.8	67	s.	.....	.....	2	.....	6	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.65	753.1	29.75	755.6	51.8	11.0	68	se.	.....	.....	2	.....	10	.....	.....	0.322	8.2	.....	Royal Academy.
Vienna	29.11	739.4	29.85	758.3	34.7	1.5	94	se.	.....	.....	1	.....	10	.....	.....	0.055	1.4	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.45	748.0	29.55	750.6	36.0	2.2	60	sw.	5	2.2	.....	.....	1	.....	.....	0	0	misty	W. Boswell
Armagh, Observatory	29.21	741.9	29.45	748.0	30.3	— 0.9	95	ssw.	1.5	0.7	.....	.....	10	.....	.....	blank	blank	overcast	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.52	749.8	37.0	2.8	66	ese.	11	4.9	.....	.....	6	.....	.....	.....	.....	misty	John Hartnup.
Bolton, Sharples	28.98	736.1	29.52	749.8	35.6	2.0	66	e.	6	2.7	.....	.....	10	.....	.....	.....	.....	misty	Thomas Mackereth.
Bradford, Yorkshire	29.15	740.4	29.55	750 6	33.5	0.8	76	sw.	.....	.....	1	.....	4	.....	.....	0	0	d. clouds	McLandsborough&Preston
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	80.0	26.7	74	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	gloomy	Corpl. J. Surgenor, A. H. C.
Cardington	.....	.....	.....	.....	37.0	2.8	85	e.	.....	.....	0–4	.....	9	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.35	745.5	29.48	748.8	40.1	4.5	89	e.	.....	.....	1	.....	9	.....	.....	.....	.....	misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.09	738.9	29.32	744.7	42.2	5.7	81	ne.	.....	.....	5	.....	10	.....	.....	.....	.....	squally	The Staff.
Fort Napier, Natal	27.56	700 5	29.80	756.9	83.0	28.3	46	n.	.....	.....	1	.....	6	.....	.....	.....	.....	.....	Corpl. F. Milner, A. H. C.
Galway	29.41	747.0	29.45	748.0	41	5.0	75	sw.	.....	.....	3	.....	2	.....	.....	0.13	3.3	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.12	765.0	30.15	765 8	56.0	13.3	93	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	raining	Sgt. J. Norris, A. H.C.
Glasgow, Observatory	29.33	745.0	29.54	750.3	32.8	0.4	81	nne.	.....	.....	1	.....	fg.	.....	.....	.....	.....	foggy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.32	744 7	29.49	749.0	37.7	3.2	89	ene.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	28.93	734.8	29.23	742.4	39.0	3.9	90	ese.	.....	.....	5	.....	10	.....	.....	.....	.....	overcast	A. Collenette, F. M. S.
Kew, Observatory	29.45	748.0	29.49	749 0	37.8	3.2	89	e.	12	5.4	.....	.....	10	.....	.....	.....	.....	misty	The Staff.
Leicester, Museum	29.27	743.4	29.53	750.0	36.8	2.7	93	e.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.82	757.4	29.90	759.4	61.0	16.1	95	w.	.....	.....	2	.....	7	.....	.....	0.03	0.8	d. clouds	Corpl. Keene, A. H. C
Nassau, Bahamas	30.03	762 7	30.07	763.8	74.0	23.3	95	s.	.....	.....	1	.....	8	.....	.....	blank	blank	overcast	C. S. Duncombe.
Oscott, St. Mary's College	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Rev. Jas. W. Browne
Oxford, Radcliffe Obs'y	29.26	743.2	29.49	749.0	36.1	2.3	89	ene.	.....	.....	2	.....	9	.....	.....	.....	.....	overcast	The Staff.
Plymouth	29.24	742.7	29.32	744.7	40.0	4.4	87	ene.	.....	.....	3	.....	10	.....	.....	.....	.....	raining	John Merrifield.
Sandwick Manse, Orkneys	29.34	745.2	29.45	748.0	36.4	2.4	85	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.04	763 0	30.11	764.8	49.4	9.7	64	calm	.....	.....	0	.....	1	.....	.....	.....	.....	blue sky	W. H. Lyne.
Sheffield	29.28	743.7	29.57	751.1	34.4	1.3	80	calm	.....	.....	0	.....	10	.....	.....	0	0	misty	W. F. Cooper.
Siloth Rectory	29.48	748.8	29.51	749.5	33.4	0.8	75	e.	.....	.....	1	.....	2	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.55	750.6	32.4	0.2	79	nne.	2	0.9	.....	.....	9	.....	.....	blank	blank	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.28	743.7	29.50	749.3	36.7	2.6	92	se.	.....	.....	2	.....	10	.....	.....	.....	.....	foggy	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.30	744.2	29.34	745.2	45	7.2	84	ne.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.46	748.3	29.48	748.8	40.9	4.9	87	nnw.	3	1.3	.....	.....	5	.....	.....	blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	5	—15.0	.....	s.	3	1.3	.....	.....	10 n	.....	.....	0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.38	771.6	30.43	772.9	0	—17.8	100	calm	0	0	.....	0	hz.	.....	.....	0	0	hazy	H. J. Cundall, C. E.
Chatham, N. B*	30.30	769.6	30.37	771.4	— 4	—20.0	100	calm	0	0	.....	.....	hz.	.....	.....	0	0	light haze	G. A. Blair.
Cornwall	29.47	748.5	29.67	753.6	38.1	3.4	66	sw.	.....	.....	4	.....	10 s	.....	.....	0	0	overcast	Jas. Smith, M. A.
Dalhousie	30.24	768.1	30.30	769.6	0	—17.8	.....	calm	.....	.....	0	.....	10 s	.....	.....	0	0	overcast	H. A. Johnson.
Father Point, Quebec*	30.07	763.8	30.10	764.5	13	—10.6	87	e.	5	2.2	.....	.....	10 s	.....	calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.38	746.2	30.39	771.9	— 30	—34.4	100	n.	16	7.2	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton	30.30	769 6	30.37	771.4	2.1	—16.6	97	calm	0	0	.....	.....	10 s	.....	.....	0	0	overcast	Prof. Harrison, L. L. D.
Granton	28.57	725.7	29.73	755 1	20.3	— 6.5	96	sw.	9	4.0	.....	.....	10 n	.....	.....	0.10c	2.5	overcast	Jas. Grant.
Halifax, N. S*	30.33	770.4	30.48	774.2	0	—14.4	100	w.	2	0.9	.....	0	0	.....	.....	0.050	1.3	smoky	A. Allison.
Hamilton	29.32	744.7	29.73	755.1	25.9	— 3.4	77	sw.	.....	.....	5	6 ck	0	sw.	.....	0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.36	745.7	29.71	754.6	34	1.1	96	s.	9	4.0	.....	.....	10 n	.....	.....	0.20	5.1	light rain	A. P. Knight, M. A
Montreal, Quebec*	29.60	751.8	29.81	757.2	35	1.7	96	s.	23	10.3	.....	.....	10 s	.....	.....	0	0	cloudy	C. H. McLeod, C. E.
Ottawa	29.41	747.0	29.66	753.4	37.2	2.9	36	sw.	.....	.....	3	.....	10 s	.....	.....	0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	28.87	733.3	29.60	751.8	24	— 4.4	88	sw.	20	8.9	.....	.....	10 n	.....	sw.	0.05	1.3	cloudy	Rev. R. Mosley.
Peterboro	29.89	759.2	30.69	779.5	32.7	0.4	79	sw.	.....	.....	5	.....	10 n	.....	.....	0.05	1.3	overcast	J. Dixon, B. A.
Port Dover, Ontario	29.03	737.3	29.76	755.9	24	— 4.4	100	sw.	18	8.0	.....	.....	10 n	.....	sw.	0.05	1.3	threatening	H. Morgan.
Port Stanley, Ontario	29.08	738.6	29.76	755.9	24	— 4.4	73	sw.	36	16.1	.....	.....	10 n	.....	sw.	0.12	3.0	cloudy	M. Payne.
Quebec, Quebec*	29.70	754.4	30.05	763.3	20	— 3.3	92	ne.	.....	.....	5	.....	10 k	.....	e.	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.66	730.6	29.47	748.5	35	— 1.7	89	e.	8	3.6	.....	.....	10 s	.....	se.	0	0	threatening	W. H. McIntyre.
Saugeen, Ontario*	28 84	732 5	29.59	751.6	21	— 6.1	96	sw.	31	13.9	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	
St. Andrews, N. B	30.25	768.3	30.31	769.9	29	— 1.7	94	s	6	2.7	.....	.....	10 n	.....	.....	0	0	cloudy	
St. John, N. B	30.18	766.6	30.36	771.1	26.0	— 3.3	94	sw.	12	5.4	.....	.....	8 ks	.....	.....	0.26	6.6	d. clouds	G. Murdock, C. E.
St. Pierre, N. F.	.....	.....	30.36	771.1	21.9	— 5.6	.....	w.	.....	.....	2	.....	.....	.....	.....	0	0	.....	The Commandant.
Stratford	28.36	720 3	29.72	754.9	19.0	— 7.2	92	sw.	17	7.6	.....	.....	10 s	.....	.....	0.20	5.1	overcast	C. J. Macgregor, M. A.
Sydney, C. B*	30.42	772.7	30.48	774.2	5	—15.0	100	calm	0	0	.....	2 c	0	.....	.....	0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.30	744.2	29.69	754.1	30	— 1.1	78	w.	25	11.2	.....	.....	10 ks	.....	w.	0	0	cloudy	Magnetic Observatory.
Windsor	30.31	769.9	30.42	772.7	5.0	—15.0	88	w.	2	0.9	.....	c;k	0	.....	.....	0	0	fair	Prof. W. H. Butler.
Woodstock	28.65	727.7	29.78	756.4	20.6	— 6.3	79	sw.	30	13.4	.....	6 k	0	sw.	.....	0.20	5.1	d. clouds	Prof. Wolverton, M. A.
Yarmouth, N. S*	30.31	769.9	30.38	771.6	23	— 5.0	92	s.	2	0.9	.....	0	8 k	.....	s.	0.07	1.8	clear	Lt. F. E. Wilmot, R. A.
Cape Colony.																			
Cape St. Francis Lt. House	29.73	755.1	29.76	755.9	71.0	21.7	73	w.	8.8	3.9	.....	0	3 k	.....	.....	0	0	dense haze	John Duthie.
Springbok Fontein	27.85	707.4	.....	.....	75	23.9	76	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. T. Eustice.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.77	629.1	.....	.....	12.7	—10.7	.....	nne.	.....	.....	1	.....	10	.....	.....	.....	.....	showy	
Tchang-kia-tchouang	30.40	772.1	30.51	774.9	18.5	— 7.5	81	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	Mission, S. J.
Zi-Ka-Wei, near Shanghai	30.33	770.3	30.35	771.0	35.4	1.9	80	n.	8.3	3.7	.....	.....	10 n	.....	.....	0	0	.....	M. Marc Dechevrens, S.J
Danish.																			
Copenhagen	29.57	751.1	29.62	752.3	35.8	2.1	85	ssw.	13	6	.....	.....	10	.....	.....	0.004	0.1	snowing	
Fanoe	29.50	749.4	29.52	749.9	36.5	2.5	93	wsw.	.....	.....	4	.....	9	.....	.....	.....	.....	hazy	Oversergent Fischer.
Godthaab, Greenland	29.77	756.2	29.82	757.3	2.7	—16.3	90	ene.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	Overloerer Lauridsen.
Ivigtut, Greenland	29.72	754.9	29.74	755.4	— 2.6	—19.2	.....	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	S. Kleinschmidt.
Jacobshavn, Greenland	29.91	759.7	29.96	760.9	—11.6	—24.2	.....	e.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.32	744.7	29.36	745.8	11.1	—11.6	82	ne.	.....	.....	8	.....	8	.....	.....	.....	.....	.....	
Thorshavn	29.20	741.6	29.23	742.5	37.2	2.9	86	ssw.	13	6	.....	.....	10	.....	.....	.....	.....	.....	A. O. Thoriacius.
Vestervig	29.34	745.3	29.43	747.6	37.2	2.9	96	calm	.....	.....	0	.....	9	.....	.....	.....	.....	.....	Overloerer Bergh.
Upernavik, Greenland	29.98	761.4	30.02	762.6	— 9.0	—22.8	.....	e.	.....	.....	4	.....	3	.....	.....	.....	.....	hazy	Loerer Oesterbol.
French.																			
Agen, Normal School	28.70	729.0	29.34	745.3	46.4	8	83	sse.	.....	.....	1	.....	n	.....	.....	0.94	1.	.....	M. Labroue, Director.
Alençon, Normal School	28.78	731.1	29.34	745.1	38.5	3.6	90	ssw.	.....	.....	1	.....	10 n	nne.	nne.	0.31	8.	snowing	M. Nicot, Director.
Arras, Engineer School	29.35	745.6	29.61	752.2	37.8	3.2	.....	.....	.....	.....	2	.....	10	.....	sw.	0	0	covered	M. Fénéon, Command't.
Avignon, Normal School	29.45	748.0	29.53	750.0	47.8	8.8	63	se.	.....	.....	2	.....	10	.....	se.	1.134	28.8	covered	M. Giraud, Director.
Bar-sur-Seine	28.91	734.4	29.48	748.7	41.0	5.0	61	se.	.....	.....	2	0	8 n	.....	.....	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.19	741.3	29.45	748.1	40.5	4.7	77	se.	.....	.....	1	.....	8	.....	se.	0.028	0.7	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	28.89	726.2	29.49	749.1	44.6	7	61	ene.	.....	.....	1	ck	0	ne.	.....	0.157	4.0	.....	M. Goblin, Director.
Bordeaux, Observatory	28.89	733.8	29.15	740.3	47.1	8.4	72	se.	.....	.....	4	.....	10	.....	w.	0.122	3.1	covered	M. Rayet, Director.
Bourges, Normal School	28.78	730.9	29.33	745.0	39.2	4	67	s.	.....	.....	3	.....	n	.....	s.	0	0	.....	M. Malet, Director.
Brest, Naval Observatory	28.85	732.9	29.10	739.0	38.8	3.8	93	e.	.....	.....	3	.....	9	.....	e.	0.315	8.0	.....	M. de Kermaidic, Dir.
Caen, Normal School	29.22	742.1	29.29	744.0	39.2	4	87	n.	.....	.....	2	.....	10	.....	.....	0.04	1.	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.17	740.9	29.49	749.1	40.6	4.8	79	sse.	.....	.....	4	.....	8	s.	sw.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.03	737.4	29.55	750.6	39.9	4.4	84	ese.	.....	.....	3	.....	10	.....	.....	0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	27.96	710.2	29.32	744.6	43.2	6.2	69	s.	.....	.....	2	.....	10	.....	.....	0	0	covered	M. Allnard, Director.
Cluny, Normal School	28.59	726.2	29.45	747.9	39.2	4	70	s.	.....	.....	2	.....	.....	.....	s.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	28.71	729.1	29.58	751.4	38.8	3.8	73	se.	.....	.....	1	2 ck	.....	se.	se.	0.205	5.2	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	26.95	684.5	29.53	750.0	37.0	2.8	86	.....	.....	.....	.....	.....	8 n	.....	.....	0	0	.....	M. Jeangirard, Director.
Grésque, du Rhone	28.45	722.7	29.58	751.4	46.9	8.3	75	s.	.....	.....	3	.....	10	.....	se.	0.134	3.4	.....	M. Kina, Director.
Grenoble, Normal School	28.72	729.6	29.51	749.6	38.5	3.6	67	sw.	.....	.....	2	cs	.....	.....	.....	0.173	4.4	.....	M. Ablard, Director.
Guéret	27.70	703.6	29.28	743.8	37.4	3	83	se.	.....	.....	1	.....	10	.....	nw.	0.16	4.	raining	M. Delorme, Dir.
Lamballe, Normal School	28.82	732.0	29.10	739.2	36.3	2.4	93	e.	.....	.....	4	.....	10	.....	e.	0.35	9.	covered	M. Olliffrault, Director.
Lescar, Normal School	28.66	728.0	29.22	742.1	56.8	13.8	28	sw.	.....	.....	10	0	8 n	.....	.....	0.067	1.7	very cloudy	M. Chanvin, Director.
Lorient, Naval Observatory	28.96	735.6	29.06	738.2	40.6	4.8	80	e.	.....	.....	6	.....	10	.....	e.	0.197	5.0	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.43	722.1	29.50	749.2	40.6	4.8	63	sse.	.....	.....	2	.....	10 n	.....	sse.	0	0	covered	M. André, Director.
Mans, Normal School	28.99	736.3	29.30	744.3	34.3	1.3	94	se.	.....	.....	6	.....	10	.....	.....	.....	.....	snowing	M. Piboën, Director.
Marseille, Observatory	29.39	746.5	29.66	753.3	51.6	10.9	81	sse.	.....	.....	2	.....	10	.....	s.	1.354	34.4	.....	M. Stephan, Director.
Montlouis	24.19	614.3	29.03	737.3	26.6	— 3.0	100	s.	31.3	14 0	.....	.....	10	w.	.....	0	0	.....	M. Caré for Dr. Finot.
Montpellier, Normal School	29.28	743.6	29.41	746.9	49.3	9.6	70	ssw.	.....	.....	4	.....	5	.....	ssw.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	28.73	729.8	29.52	749.9	39.9	4.4	67	nne.	.....	.....	1	ck	0	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	28.94	735.0	29.10	739.1	43.7	6.5	87	ese.	.....	.....	1–3	.....	10 n	.....	ese.	0.157	4.0	rainy	M. Larocque, Director.
Perpignan, Observatory	29.28	743.6	29.39	746.4	50.0	10.0	54	sw.	13.0	5.8	.....	.....	10	sw.	s.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	20.55	522.0	.....	.....	13.3	—10.4	.....	w.	.....	.....	3–4	.....	fg	.....	w.	0.939	1.0	dense fog	M. Vaussenat.
Privas, Normal School	28.46	722 8	29.54	750.2	43.5	6.4	67	s.	.....	.....	1	.....	8	s.	s.	0	0	very cloudy	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.44	620.7	.....	.....	25.5	— 3.6	100	s.	.....	.....	10	.....	fg	.....	.....	0.020	0.5	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.04	737.6	29.07	738.4	46.9	8.3	75	sse.	.....	.....	4	.....	10	.....	s.	2.32	59.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	28.85	732.8	29.06	738.2	44.2	6.8	85	se.	.....	.....	6	.....	5	.....	sw.	0.449	11.4	raining	M. Brotier, Director.
Rodez, Normal School	27.21	691.2	29.35	745.5	41.9	5.5	62	s.	.....	.....	4	.....	k	.....	n.	0	0	.....	M. Seger, Director.
Rouen, Normal School	29.31	744.4	29.35	745.6	39.6	4.2	80	e.	.....	.....	1	.....	5	e.	.....	0.016	0.4	cloudy	M. Moullot.
Saint Lô	.....	.....	.....	.....	38.3	3.5	81	e.	.....	.....	1	.....	10	.....	e.	0.252	6.4	raining	M. Delaplanche, Dir.
Saint Maur, Observatory	29.26	743.2	29.43	747.4	39.2	4.0	75	ese.	.....	.....	3	.....	10	.....	.....	0	0	.....	M. Renou, Director.
Toulouse, Observatory	28.63	727.1	29.34	745.1	44.2	6.8	79	sse.	.....	.....	6	.....	8	sw.	.....	0.043	1.1	very cloudy	M. Baillaud, Director.
Tours	29.09	738.9	29.27	743.4	36.7	2.6	93	ese.	.....	.....	2	.....	10	.....	e.	0.012	0.3	rain & snow	M. de Tastes.
Versailles, Observatory	28.92	734.5	29.41	747.0	38.5	3.6	73	se.	.....	.....	3	.....	.....	.....	.....	0	c	.....	Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	29.07	738.3	29.22	742.1	52.9	11.6	46	sw.	23.7	10.6	.....	.....	10 k	.....	w.	0.181	4.6	.....	M. Cartier, Director.
German.																			
Ansbach	28.24	717.4	29.73	755.2	37.8	3.2	82	se.	.....	.....	2	.....	6	se.	.....	0.031	0.8	.....	Prof. Jnedt.
Bamberg	28.87	733 4	29.71	754.6	37.9	3.3	80	se.	.....	.....	1	.....	3	.....	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	29.40	746.8	29.55	750.5	38.8	3.8	76	sw.	.....	.....	2	.....	8	.....	.....	0	0	.....	Dr. Lensch.
Breslau	29.29	744.0	29.82	757.4	39.7	4.3	82	sse.	.....	.....	2	.....	10	.....	.....	0	0	foggy	Royal University Obs'y
Carlsruhe	29.18	741.2	29.62	752.4	40.8	4.9	70	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	Albert Senz.
Cassel	28.92	734.6	29.63	752.7	40.3	4.6	70	s.	.....	.....	2	.....	2	s.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.32	744.8	29.69	754.2	39.7	4.3	73	se.	.....	.....	1	.....	2	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.14	714.8	29.60	751.7	40.6	4.8	68	ene.	.....	.....	5	.....	2	e.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	29.59	751.5	29.68	753.8	37.8	3.2	83	sw.	.....	.....	3	.....	6	.....	.....	0	0	.....	E. Preller.
Kiel	29.61	752.1	29.63	752.5	37.0	2.8	88	sw.	.....	.....	2	.....	10	.....	.....	0.039	1.0	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.32	744.6	29.74	755.5	40.1	4.5	70	sw.	.....	.....	2	.....	2	wsw.	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	29.52	749.7	29.71	754.6	39.6	4.2	65	ssw.	.....	.....	2	.....	2 ks	.....	sw.	0	0	.....	Weather Observatory.
Memel	29.79	756.7	29.84	757.9	33.8	1.0	100	sw.	.....	.....	4	0	8 k	.....	.....	.....	.....	.....	Issermann.
Munich	27.83	706.9	29.67	753.6	35.8	2.1	78	e.	.....	.....	4	.....	5	e.	.....	0.008	0.2	.....	Central Station.
Neufahrwasser	29.80	756.8	29.81	757.2	36.3	2.4	85	s.	.....	.....	2	.....	1	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.13	740.0	29.66	753.3	39.2	4.0	82	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Dicknether.
Stuttgart	28.69	728.7	29.60	751.8	39.6	4.2	73	e.	.....	.....	1	.....	3	.....	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	29.67	753.7	29.70	754.3	36.5	2.5	84	s.	.....	.....	3	o	4 k	.....	.....	0	0	.....	Profs. Brandes & Reimer
Greek.																			
Athens	29.76	756.0	30.16	766.0	50.9	10.5	.....	n.	.....	.....	0.5	o	o	.....	.....	0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.87	758.8	29.93	760.1	71.9	22.2	26	nnw.	25.0	11.2	.....	.....	0	.....	.....	0	0	blue sky	
Deesa	29.38	746.3	29.87	758.6	70.6	21.4	22	wnw.	11.0	4.9	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.84	757.9	29.88	758.9	74.9	23.8	38	nnw	26.0	11.6	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.94	709.8	29.80	756.9	77.5	25.3	16	wnw.	27.0	12.1	.....	.....	0	.....	.....	0	0	blue sky	
Belgaum	27.27	692.7	29.80	756.9	77.5	25.3	49	wsw.	9.0	4.0	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.16	740.6	29.94	760.6	54.2	12.3	46	w.	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	28.98	736.0	29.92	760.1	54.2	12.3	46	w.	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Agra	29.34	745.2	29.93	760.3	61.3	16.3	46	calm	0	0	.....	.....	0	.....	.....	0	0	.....	
Nagpur	28.71	729.3	29.76	755.8	77.7	25.4	41	calm	1.0	0.4	.....	.....	4	.....	w.	0	0	d. clouds	
Jubbulpore	28.47	723.2	29.86	758.4	68.5	20.3	42	n.	6.0	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.53	750 0	29.93	760.1	59.3	15.2	41	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.57	751.2	29.90	759.5	59.5	15.3	61	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.70	754.3	29.89	759.2	63.2	17.3	51	w.	4.4	2.0	.....	.....	3	.....	sw.	0	0	d. clouds	
Hazaribagh	27.80	706.1	29.88	759.0	59.7	15.4	61	nne.	4.5	2.0	.....	.....	5	w.	w.	0	0	d. clouds	
Cuttack	29.76	755.8	29.84	757.9	76.9	24.9	57	sse.	6.0	2.7	.....	.....	5	.....	w.	0	0	d. clouds	
Calcutta, Allpore	29.86	758.6	29.89	759.1	68.2	20.1	48	e.	2.0	0.9	.....	.....	9	.....	s.	0	0	.....	
Dhubri	29.77	756.1	29.89	759.3	63.4	17.4	57	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.79	756.7	29.88	759.0	66.6	19.2	80	ne.	2.6	1.2	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.56	750.9	29.92	759.8	59.3	15.2	85	sw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar	29.76	756.0	29.79	756.6	83.7	28.7	69	n.	11.9	5.3	.....	.....	0	.....	.....	0	0	blue sky	
Jeypore	28.42	721.8	29.92	760.0	58.8	14.9	32	nw.	4.0	1.8	.....	.....	9	.....	nne.	0	0	gloomy	
Bellary	28.30	718.8	.....	.....	88.3	31.3	32	w.	6	2.7	.....	.....	1	.....	nw.	0	0	d. clouds	
Trichinopoly	29.55	750.6	.....	.....	87.0	30.6	52	calm	0	0	.....	re	0	.....	.....	0	0	blue sky	
											.....	.....	10	.....	.....	0	0	overcast	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.																			
Udine	29.36	745.8	29.79	756.6	42.1	5.6	89	e.	6.3	2.8			10			1.587	40.3		**Prof. Giovanni Clodig.**
Milan	29.21	742.0	29.76	755.8	36.0	2.2	89	wnw.	1.8	0.8			10			0.520	13.2		**Prof. Schiapparelli.**
Padua	29.63	752.6	29.74	755.5	41.4	5.2	92	nne.	9.8	4.4			10	e.		0.291	7.4		**Prof. Dott. Lorenzoni.**
Moncalieri	28.80	731.6	29.75	755.7	37.6	3.1	88	n.	1.3	0.6			9			0	0		**Prof. F. F. Denza.**
Genoa	29.48	748.7	29.67	753.7	45.9	7.7	68	n	8.7	3.9			2	n.		1.563	39.7		**Prof. G. M. Garibaldi.**
Mondovi	27.76	705.1	29.77	756.1	36.3	2.4	63	n.			2		8			0	0		Prof. D. C. Bruno.
Pesaro	29.62	752.4	29.67	753 7	48.6	9.2	76	se.	6.9	3.1			10			0	0		Prof. Luigi Guidi.
Florence	29.42	747.2	29.68	753.9	49.3	9.6	91	e.			2		10			0.150	3.8		Prof. Costantino Pittei.
Leghorn	29.52	749.9	29.61	752.1	53.8	12.1	86	wsw.	6.3	2.8			10	s.		0.055	1.4		Prof. P. Monte.
Rome	29.55	750.6	29.73	755.2	55.2	12.9	80	sse.	16.8	7.5			10			0.035	0.9		Prof. P. Tachini.
Lecce	29.70	754.3	29.96	760.9	56.8	13.8	78	sse.	32.9	14.7			7	se.		0	0		Prof. C. de Giorgi.
Cosenza	28.98	736.1	29.90	759.4	51.8	11.0	75	ese.	3.1	1.4			3	se.		0.138	3.5		Prof. D. Conti.
Cagliari	29.62	752.3	29.82	757.4	54.1	12.3	65	w.			2		10			0.043	1.1		Prof. A. Pacinotti.
Palermo	29.60	751.7	29.85	758.2	56.7	13.7	67	sw.	1.3	0.6			10	sw.		0	0		Prof. G. Cacciatore.
Syracuse	29.87	758.7	29.91	759.8	60.1	15.6	78	s.	16.1	7.2			10	s.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.29	744.0	29.82	757.4	56.1	13.4	51	nne.	0.7	0.3			8	sw.		0.189	4.8		Prof. F. Brioschi.
Stelvio	21.71	551.4			23.4	— 4.8	78	w.			6		10			2.165	55.0	covered.	Prof. P. F. Denza.
Valdobbia	21.73	552.0			23.5	— 4.7	58	w.			2		4			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.76	755.8	29.79	756.6	27.7	— 2.4	68	nw.			4		10 ck;n		nw.	0.079	2.0	snowing	Hattori.
Awomori	29.62	752.3	29.66	753.3	26.0	— 3.3	95	w.	32.1	14.3			10 n			0.161	4.1	snow-drift	K. Ogawa.
Hakodate	29.53	750.0	29.54	750.3	30.5	— 0.8	77	w.	42.0	18.8		5	0			0	0	fair.	
Hamamatsu	29.94	760.5	29.97	761.2	38.4	3.6	66	w.			7	0	0			0	0	clear.	
Kagoshima	30.09	764 3	30.10	764.6	45.0	7.2	66	n.			4	1 cs	0			0	0	clear.	G. Miyanohaza.
Kioto	29.93	760.3	30.11	764.9	36.1	2.3	74	nw.	8.0	3.6			9 n			Inap.	Inap.	light snow	M. Tojima.
Kochi	30.08	764.0	30.10	764.5	45.1	7.3	65	ne.	5.7	2.6		0	4		nw.	0	0	fair	K. Kusunose.
Miasaka	30.06	763.6	30.09	764.3	43.2	6.2	72	calm			0	0	4 ck;s		nw.	0	0	fair	K. Masuzaki.
Nagasaki, I. M. Obs'y	29.93	760.2	30.14	765.6	43.1	6.2	65	nne	0.9	0.4		0	8 s			0	0		S. Takehayashi.
Niigata	29.92	759.9	29.96	761.0	32.0	0.0	67	wnw.	29.8	13.3		0	9 n		wnw.	0.015	0.4	light snow	M. Morita.
Nobiru	29.70	754.5	29.72	754.9	30.1	— 1.1	61	nw.	23.5	10.5		0	0			0	0	clear	H. Midzushina.
Numazu	29.79	756.7	29.83	757.6	41.9	5.5	45	nne.			4	0	0			0	0	clear	R. Kaneda.
Sakai	30.18	766.5	30.19	766.8	36.8	2.7	75	n.			2		10 s		w.	0.510	13.1	cloudy	K. Yamawchi.
Supporo					26.0	— 3.3	90	nw.	24.4	10.9			10			0.345	8.8	snowing	
Tokei Obs'y, Yeddo	29.76	756.0	29.84	758.0	36.0	2.2	57	nnw.	12.1	5.4		0	0			0	0	fair	The Staff.
Wakayama	30.07	763.9	30.13	765.3	39.0	3.9	69	n.	7.6	3.4		0	0			0	0	clear	Y. Kawamura.
Osaka	30.11	764.9	30.13	765.3	35.6	2.0	76	nnw.	7.2	3.2		0	2 ck;s		n.	0.020	0.5	clear	H. Omura.
MAURITIUS.																			
Mauritius Observatory	29.65	753.1	29.84	757.9	82.0	27.8	76	e.	19.5	8.7			8 k;n		e.	0.22	5.6	showery	Oliver & Figon.
MEXICAN.																			
Altata					80	10.6	100	e.										clear	H. Diaz Pena.
Guanajuato	23.66	600.9	29.88	758 9	51.1	10.6	84	calm	0	0		0	0			0	0	foggy	Prof. Vicente Fernandez.
Leon	24.31	617.5	30.14	765.5	47.1	8.7	81	n.			1	1 c	0			0	0	clear	Prof. M. Leal.
Mazatlan	29.71	754.6	29.97	761.3	66.5	15.8	79	nnw.	1.6	0.8		0	0			0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.09	586.4	30.20	767.1	52.3	11.3	69	nw.	0.2	0.1		5 n	5 n			0	0	covered	The Staff.
Morelia	24.32	617.6	30.20	767.2	52.2	11.2	69	s.			2	2 c	2 k	s.	s.	0	0	½ cloudy	M. Tena, M. D.
Pabellon	23.94	608.2	30.10	764.6	43.3	6.3	71	calm	0	0		0	0			0	0	fine	
Puebla, Catholic Institute	23.43	595.0	30.17	766.3	54.5	12.5	73	calm	0	0			10		sw.	0	0	covered	Prof. P. Spina.
Zacatecas	22.57	573.3	30.34	770.7	42.8	6.0	55	n.	4.7	2.1		0	0			0	0	blue sky	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.59	751.6	29.59	751.6	35.6	2.0		se.			3					0.024	0.6		
Groningen	29.58	751.2	29.63	752.6	36.5	2.5		ssw.			1					0	0		
Hellevoetsluis	29.61	752.0	29.61	752.0	39.9	4.4	78	e.			1					0.010	0.4		
Utrecht	29.59	751.5	29.63	752.7	40.1	4.5	80	ssw.			1		5			0	0	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.77	756.1			77.2	25.1	92	wnw.	0	0			9			1.54	39.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.41	746.9	29.47	748.5	35.6	2.0	85	sse.	2	1			6			0.189	4.8		
Brono	29.32	744.7	29.36	745.7	34.2	1.2	78	nw.	0	4			9			0	0		
Christiania	29.36	745.7	29.51	749.6	24.1	— 4.4	77	ene.	4	2			1			0.028	0.7		
Gjaesvær	28.84	732.5	28.86	733.1	30.4	— 0.9		sw.			6		10						
Lodingen	29.04	737.7	29.09	738.9	33.8	1.0	81	w.			4		10			0.177	4.5	snowing	
PORTUGUESE.																			
Angra, Azores	30.23	767.8	30.39	771.8	60.4	15.8	79	wnw.	9.8	4.4			5			0	0		Dr. J. A. Sampaio.
Campo Major					48.6	9.2	84	wnw.	11.2	5.0			9			0.457	11.6		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.37	771.4	30.46	773.7	64.4	18.0	62	se.	2.5	1.1			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.69	754.1	30.05	763.3	55.2	12.9	62	wnw.	16.8	7.5			9			0.874	22.2		The Staff.
Ponta Delgada, Azores	30.40	772.1	30.47	773.9	62.2	16.8	72	nw.	12.5	5.6			3			0	0		
Saint Paul de Loando	29.72	754.8	29.91	759.8	84.2	29.0	77	w.	1.8	0.8			2	sse.		0	0		
Serra da Estrella	24.91	632 8	29.76	756.0	31.5	— 0.3	100	nw.					10					hail and fog	
RUSSIAN.																			
Akmolinski	29.47	748.6	30.72	780.2	— 6.7	—21.5	93	sw.	7	3			9 kn						Major K. Lasarew.
Archangel	29.37	745.9	29.39	740.4	29.5	— 1.4	96	sse.	13	6			10			0.059	1.5	snowing	Capt. Sseliwerstow.
Ashuradn	30.35	771.0	30.26	768.6	38.1	3.4	97	n.	9	4		7 ck	0			0	0		
Astrakhan	30.54	775.7	30.46	773.6	23.0	— 5.0	55	ese.	11	5		0	0			0	0		Capt. Wisganow.
Baku	30.33	770.4	30.28	769.2	41.5	5.3	94	ese.	4	2			9 k			0.039	1.0		
Barnaul	30.11	764.9	30.08	779.2	3.7	—15.7	82	sw.	9	4			10			0.012	0.3		Meteorological Obs'y.
Bielosersk	29.23	742.4	29.71	754.6	30.7	— 0.7	96	sse.	13	6			10 s			0	0		
Dorpat	29.48	748.9	29.74	755.3	34.2	1.2	91	sw.	10	7		6 ck	0			0	0		Observatory.
Ekaterinburg	29.39	746.4	30.44	773.1	15.8	— 9.0	42	wsw.	9	4		1 c	0			0	0	light clouds	Meteorological Obs'y.
Elisawetgrad	29.78	756.3	30.26	768.6	23.0	— 5.0		sse.	7	3			10 n			0	0		
Irkutsk	28.84	732.4	30.76	781.4	—17.3	—27.4	81	calm			0		0			0	0		
Kasan	30.11	764.7	30.41	772.3	5.9	—14.5	68	sse.	10	7			10			0	0		Observatory.
Kem	29.16	740.7	29.21	742.0	28.8	— 1.8	84	calm	0	0			10			0.102	2.6	heavy cl'ds.	
Kertch	30.19	766.8	30.21	767.3	32.4	0.2	89	calm	0	0			10 n			0	0		Lagorio & Sastyrez.
Kieff	29.42	747.2	30.09	764.2	28.9	— 1.7	86	ssw.	27	12			10ks;n			0	0		Observatory.
Kosloy	29.73	755.2	30.30	769.6	24.3	— 4.3	100	ssw.	18	8			10 s			0	0		
Libau	29.74	755 3	29.76	755.9	34.0	1.1	92	ssw.	9	4			10			0	0		E. Quaas.
Lugan	30.10	764.4	30.29	769.4	27.7	— 2.4	85	e.	13	6			10			0	0		Meteorological Obs'y.
Moscow	29.53	750.0	30.04	762.9	27.1	— 2.7	90	s.	4.5	2.0			10 n					light snow	
Nikolaiev	30.17	766.4	30.25	768.3	27.5	— 2.5	92	s.	9	4			10 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.80	756.8	29.88	759.0	— 8.3	—22.4	53	calm	0	0			10			0	0		Iwanow.
Pekin, China	30.34	770.5	30.48	774.1	21.0	— 6.1	46	calm	0	0		0	7 k			0	0		Physicla Observatory.
Petrozavodsk	29.25	743.0	29.45	748.1	33.1	0.6	85	sw.	22	10		8 ck	0			0.059	1.5		Dr. Bergmann.
Pinsk	29.42	747.2	29.94	760.4	34.7	1.5	94	s.	7	3			10 s			0.213	5.4	snowing	
Poti	30.14	765.6	30.10	760 0	46.4	8.0	89	se.	4	2			10 n			0.579	14.7	raining	
St. Petersburg	29.60	751.8	29.61	752.2	35.2	1.8	73	sw.	16	7		0	0			0.020	0.5		Central Physical Obs'y.
Samarkand	27.76	705.1	30.42	772.0	22.5	— 5.3	43	calm	0	0		0	0						
Sevastopol	29.98	761.6	30.15	765.8	39.6	4.2	70	ssw.	7	3			10 n			blank	blank	heavy cl'ds.	
Semipalatinsk	30.11	764 8	30.85	783.5	— 1.1	—18.4	83	e.	9	4			10			0	0		Major Lasarew.
Staroi Bykhov	29.54	750.2	30.02	762.4	29.3	— 1.5	98	se.	9	4			10					snowing	
Tiflis	28.81	731.8	30.30	769.5	37.0	2.8	97	ese.	7	3			10 s			0	0		Physical Observatory.
Tomsk																			
Viatka	29.08	738.6	29.76	756 0	4.6	—15.2		sw.	7	3			10			0	0		
Warsaw	29.44	747 7	29.88	758.9	34.5	1.4	98	sw.	2	1			10			0.134	3.4	foggy	Astronomical Obs'y.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Wilna	29.47	748.4	29.90	759.4	35.4	1.9	95	s.	2	1			9			0.004	0.1	heavy clouds	Berg, Assistant.
Yeniseisk	30.04	763.1	30.36	771.2	2.5	—16.4	88	wsw.	4	2			10			0.071	1.8	snowing	M. O. Marks.
Scottish.																			
Monach Lt			29.33	745.0	43	6.1	91	s.			6	10	5	s.		0.1	3.	showery	J. Youngclause.
North Unst			29.42	747.3				s.			6	4	5	sw.					Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.45	748.0	29.55	750.6	51.3	10.7	78	sw.	3.6	1.6			10			0.012	0.3		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.24	742.8	29.30	744.3	54.9	12.7	52	nw.	7.2	3.2			10			0.024	0.6	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.43	671.2	29.42	747.2	41.0	5.0	72	sw.	39.6	17.7			10			0.728	18.5	covered	Domingo Martin.
Madrid, Royal Obs'y	27.40	696.0	29.63	752.7	49.5	9.7	52	nw.	37.1	16.6		0	4			0.240	6.1	cloudy	The Staff.
Murcia, Met. Obs'y	29.64	752.8	29.76	755.9	56.1	13.4	67	wnw.	2.7	1.2		2	8	sse.		0	0	covered	Olayo Diaz, Director.
Oviedo	28.44	722.3	29.32	744.6	44.6	7.0	90	se.	34.4	15.4		5 n	5 n			0.413	10 5	covered	Prof. L. G. Fradss.
Santiago, Met. Obs'y	28.71	729.3	29.61	752.1	49.3	9.6	93	w.	23.7	10.6			10			2.020	51.3	raining	R. Gil Villanueva, Dir.
Spanish.—(*Sub-sertes.*)																			
Manilla, Philippine Islands	29.89	759.2	29.95	760.6	78.0	25.6	63	ne.	4.9	2.2		0	3 ks			0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.2	30.07	763.8	57.9	14.4	84	wsw.	30.0	13.4			10		w.	0.062	1.6		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.02	762.6	30.11	764.9	77.4	25.2	83	calm	0	0		1 s	2 k	se.	se.	0.453	11.5	clear	Manuel Maese.
Swedish.																			
Haparanda	29.13	739.8	29.17	740.8	12.9	—10.6	93	sw.			2		0			0.224	5.7		
Umea	29.21	741.9	29.26	743.2	23.4	— 4.8	84	nw.			2		1			0	0		
Hernosand	29.28	743.6	29.33	744.9	32.0	0.0	67	sw.			2		2			0	0		
Stockholm	29.34	745.3	29.52	749.8	36.0	2.2	79	sw.			2		10			0.020	0.5		
Wisby	29.50	749.4	29.56	750.9	36.0	2.2	89	wsw.			4		10			0	0		
Sub-sertes.																			
Upsala	29.47	748.5	29.56	750.7	28.2	— 2.1	85	sw.	4.5	2.0			1			0	0		S. G. Fineman.
Swiss.																			
Geneva	28.12	714.3	29.61	752.0	36.3	2.4	73	nnw.			2		8			0	0	covered	The Observatory.
Turkish.																			
Constantinople			30.23	767.8	47.1	8.4	52	ene.	6	2.7			4		ne.	0	0		The Observatory.
Valona			30.05	763.2	47.8	8.8		e.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-sertes.																			
Beirut, Lee Obs'y, Syria			30.03	762.8	56.1	13.4	71	sw.			1		10 n		sw.	0.34	8.6		Prof. C. V. A. van Dyck.
Samokov, Bulgaria	26.66	677.2			35.5	1.9	70	s.			1	0	1 s		s.	0	0	clear	Fred L. Kingsbury.
United States.																			
Albany, New York	29.82	757.4	29.91	759.7	41	5.0	82	s.	7	3.1			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	28.80	731.5	29.50	749.3	19	— 7.2	84	sw.	18	8.0			10 n			0.01	0.3	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.11	637.8	30.23	767.8	30	— 1.1	81	ne.	6	2.7		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.42	696.5	30.46	773.7	1	—17.2	72	w.	7	3.1		1 c	0	w.		0.02	0.5	clear	B. O. Lenoir.
Atlanta, Georgia	28.88	733.5	30.10	764.5	41.0	5.0	68	nw.	7	3.1		0	0			0	0	clear	H. C. Smith.
Atlantic City, New Jersey	29.87	758.7	29.88	758.9	42	5.6	92	se.	20	8.9			10 s		w.	inap.	inap.	cloudy	Jas. M. Watson.
Augusta, Georgia	29.86	758.4	30.06	763.5	49	9.4	93	calm	0	0		0	4 k		sw.	0	0	fair	John Healy.
Baltimore, Maryland	29.83	757.7	29.88	758.9	44	6.7	93	w.	1	0.4			10 n; fg		sw.	0.12	3.0	light rain	Geo W Felger.
Barnegat, New Jersey	29.90	759.4	29.92	760.0	43.0	6.1	93	se.	27	12.1		5 cs	5 ks	sw.	sw.	0.03	0.8	cloudy	G. A. Hill.
Behring Id., Behring Sea	30.06	763.5	30.08	764.0	14.8	— 9.6		e.	2	0.9		0	0			0.02	0.5	clear	Leonard Steinegar.
Bennett, Fort, Dakota	28.67	728.2	30.41	772.4	5	—15.0	87	nw.	6	2.7			10 s		nw.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.43	696.7	30.41	772.4	8	—13.3	80	calm	0	0			10 s			0.09	2.3	cloudy	S. Wheaton.
Billings, Montana	26.93	684.0			10	—12.2	80	calm	0	0		0	5 s		nw.	0.06	1.5	fair	T. Gibson.
Bismarck, Dakota	28.38	720.8	30.38	771.6	— 4	—20.0	100	nw	2	0.9		0	0			inap.	inap.	clear	Cyrus Cramer.
Block Island, Rhode Island	30.10	764.5	30.13	765.3	40	4.4	82	s.	26	11.6		2 cs	4 s	s.	s.	0	0	fair	J. T. Elker.
Boise City, Idaho	27.15	689.6	30.08	764.0	37	2.8	96	n.	1	0.4			10 n			0.28	7.1	heavy rain	B. E. Light.
Boston, Massachusetts	30.03	762.7	30.20	767.1	32.5	0.3	83	se.	12	5.4		3 c	4 s	se.	se.	0	0	fair	O. B. Cole.
Brownsville, Texas	29.99	761.7	30.04	763.0	52.0	11.1	93	calm	0	0		0	0			0	0	clear	M. McCarty.
Buffalo, New York	28.99	736.3	29.79	756.7	27.4	— 2.6	88	sw.	28	12.5			10 s		sw.	0.12	3.0	cloudy	W. Finn.
Buford, Fort, Dakota	28.27	718.0	30.47	773.9	— 7	—21.7	61	w.	10	4.5		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.61	752.1	29.92	760.0	38.0	3.3	82	s.	13	5.8			10 s		s.	0	0	cloudy	G. O. Schaeffer.
Cairo, Illinois	29.78	756.4	30.20	767.1	30.0	— 1.1	78	nw.	10	4.5		0	0			0.02	0.5	clear	W. H. Ray.
Cape Henry, Virginia	29.89	759.2	29.91	759.7	53	11.7	86	s.	12	5.4		0	7 s		sw.	0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.82	757.4	29.84	757.9	43.0	6.1	93	se.	19	8.5			10 s			0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.64	752.8	30.34	770.6	49	9.4	100	nw.	12	5.4			fg.		nw.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.04	763.0	30.06	763.5	60	15.6	93	s.	7	3.1			fg.			0	0	dense fog	F. W. Mixer.
Champaign, Illinois	29.17	740.9	30.04	763.0	16.8	— 8.4	73	nw.	12	5.4			10 s		nw.	0.01	0.3	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.96	761.0	30.02	762.5	51	10.6	93	calm	0	0		0	fg.	calm		0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.06	738.2	29.95	760.7	46.0	7.8	93	sw.	6	2.7		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.14	765.5	39.0	3.9	84	nw.	4	1.8		2 cs	0			inap.	inap.	clear	B. L. Goulding.
Cheyenne, Wyoming	23.90	607.0	30.16	766.1	10.2	—12.1	83	e.	4	1.8			10 n			0.43	10.9	light snow	E. McGovern.
Chicago, Illinois	29.16	740.7	29.91	759.7	9.5	—12.5	71	sw.	13	5.8		0	0			0.02	0.5	clear	J. Mitchell.
Chincoteague, Virginia	29.85	758.2	29.87	758.7	47	8.3	93	se.	11	4.9		3 c	4 s	sw.	s.	0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.34	745.2	30.03	762.7	30	— 1.1	78	w.	10	4.5			10 s		w.	0.10	2.5	cloudy	R. B. Watkins.
Cleveland, Ohio	29.09	738.9	29.87	758.7	23.6	— 4.7	78	sw.	19	8.5			10 s		w.	0.15	3.8	cloudy	J. B. Newlin.
Coleman City, Texas	28.19	716.0	30.07	763.8	28	— 2.2	67	s.	3	1.3		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.07	738.4	29.97	761.2	26	— 3.3	76	sw.	10	7.2		0	8 s		sw.	0.02	0.5	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.03	711.9	30.05	763.3	31.4	— 0.3	71	calm	0	0		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.34	745.2	30.05	763.3	8	—13.3	55	w.	20	8.9		0	0			0.02	0.5	clear	W. B. Lamar.
Davis, Fort, Texas	25.15	638.8	30.13	765.3	41	5.0	70	sw.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.33	719.6	30.13	765.3	28	— 2.2	100	calm	0	0			10 n			0.99	25.1	heavy snow	D. Moore.
Deadwood, Dakota	25.36	644.1	30.30	769.6	9	—12.8	83	calm	0	0			10 s			0	0	cloudy	F. Willson.
Delaware Breakwater, Del.	29.85	758.2	29.87	758.7	43	6.1	93	se.	27	12.1			9 ks		se.	inap.	inap.	cloudy	T. S. Townsend.
Denison, Texas	29.27	743.4	30.11	764.8	33.0	0.6	60	ne.	3	1.3		0	0			0	0	clear	J. W. Byram.
Denver, Colorado	24.62	625.3	30.14	765.5	13.0	—10.6	100	nw.	10	4.5			10 n			0.59	15.0	light snow	F. M. Neal.
Des Moines, Iowa	29.26	743.2	30.24	768.1	— 1	—18.3	37	nw.	10	4.5		0	0			0.04	1.0	clear	F. W. Conrad.
Detroit, Michigan	29.05	737.9	29.81	757.2	22.0	— 5.6	87	sw.	27	12.1			10 s		w.	0.01	0.3	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.51	698.7	30.26	768.6	15	— 9.4	83	ne.	25	11.2			10 n			0.16	4.1	light snow	V. P. Temple.
Dubuque, Iowa	29.21	741.9	29.98	761.5	3.5	—15.8	57	w.	11	4.9		1 c	2 s			0.01	0.3	clear	J. Harvey Smith.
Duluth, Minnesota	29.14	740.1	29.95	760.7	3	—16.1	72	w.	10	4.5			10 s		w.	0.13	3.3	cloudy	N. B. Conger.
Eagle Pass, Texas	29.29	744.0	30.13	765.3	34.0	1.1	60	calm	0	0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.10	637.5	30.06	763.5	22	— 5.6	88	n.	6	2.7			10 s			0	0	threatening	J. M. Clifford.
Eastport, Maine	30.26	768.6	30.33	770.4	32.0	0.0	78	s.	12	5.4			10 s		s.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.17	690.1	30.10	764.5	20	— 6.7	46	ne.	4	1.8		0	0			0	0	clear	W. J. Gundalf.
El Paso, Texas	26.22	666.0	30.10	764.5	48.0	8.9	33	nw.	8	3.6		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.04	737.6	29.81	757.2	27	— 2.8	77	w.	20	8.9			10 s			0.03	0.8	cloudy	Peter Wood.
Escanaba, Michigan	28.85	732.8	29.57	751.1	12.0	—11.1	80	nw.	18	8.0			10 s		nw.	0.15	3.8	cloudy	George Heathcote.
Fredericksburg, Texas	28.27	718.0	30.09	764.3	38	3.3	64	sw.	1	0.4		0	0			0	0	clear	Frank Halwegler.
Galveston, Texas	30.01	762.2	30.06	763.5	50	10.0	64	e.	13	5.8		0	0			0	0	clear	E. O'C. Macinerney.
Grand Haven, Michigan	29.00	736.6	29.71	754.6	22.0	— 5.6	88	sw.	35	15.6			10 n		w.	0.22	5.6	light snow	J. E. Mueller.
Grant, Fort, Arizona	25.24	641.1	30.14	765.5	35	1.7	61	ne.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.93	760.2	29.95	760.7	53	11.7	100	sw.	10	4.5		9 k	fg	s.		0	0	cloudy	R. M. Crawford.
Helena, Montana	25.85	656.6	30.28	769.1	13	—10.6	100	sw.	5	2.2			10 n		calm	0.11	2.8	light snow	N. C. Smith.
Henrietta, Texas	29.04	737.6	30.11	764.8	30	— 1.1	78	ne.	2	0.9		0	0			0	0	clear	J. P. Sherry.
Huron, Dakota	28.80	731.5	30.34	770.6	4.8	—15.1	36	nw.	7	3.1			10 s			0.02	0.5	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.18	741.2	30.02	762.4	22	— 5.6	87	w.	12	5.4		0	9 s		w.	0.20	5.1	cloudy	J. F. Jirdinston.
Indianola, Texas	30.03	762.7	30.06	763.5	47.8	8.8	71	n.	8	3.6		0	0			0	0	clear	I. A. Reed.
Jacksboro, Texas	28.86	733.0	30.10	764.5	33	0.6	68	n.	10	4.5			10 s			0	0	cloudy	D. J. Carr.
Jacksonville, Florida	30.02	762.5	30.07	763.8	58	14.4	93	s.	1	0.4			10 s		s.	0	0	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.71	703.8	30.40	772.1	9	—12.8	60	calm	0	0			10 s			0	0	cloudy	A. Schneider.
Keokuk, Iowa	29.42	747.3	30.12	765.0	10.0	—12.2	69	w.	11	4.9		0	0			inap.	inap.	clear	F. Z. Gosewisch.

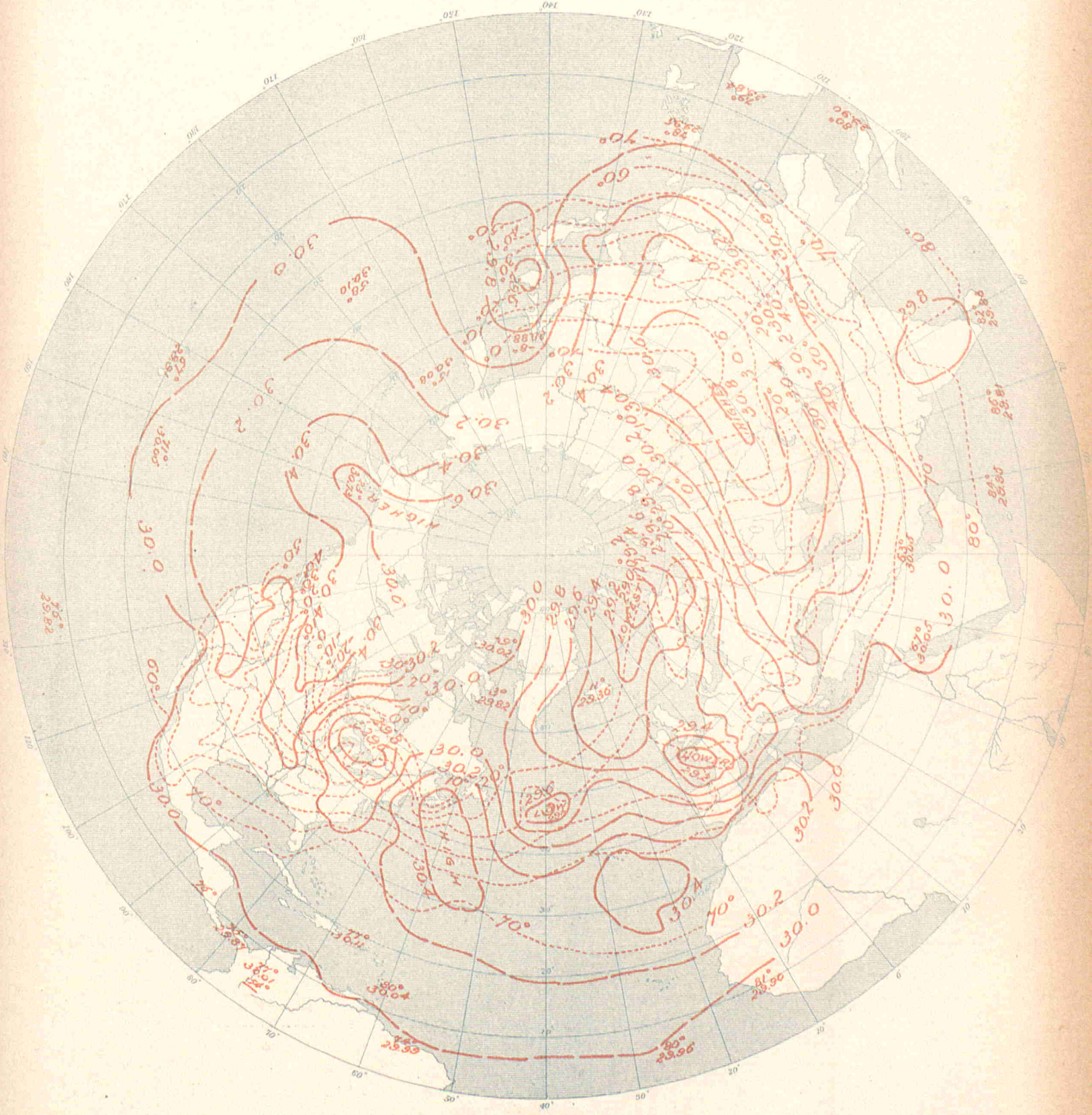
STATIONS	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.			0–10	0–10	0–10			Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Key West, Florida	30.03	762.7	30.05	763.3	68.5	20.3	77	ne.	20	8.9	.....	2 cs	3 s	w.	.....	0.10	2.5	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.95	760.7	29.97	761.2	50	10.0	90	sw.	12	5.4	.....	0	4 ks	.....	w.	0.04	1.0	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	29.02	737.1	30.10	764.5	34	1.1	60	w.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	J. A. Cody.
La Crosse, Wisconsin	29.13	739.9	29.97	761.2	0	—17.8	68	sw.	14	6.3	.....	0	5 s	.....	sw.	0.13	3.3	fair	S. C. Emery.
Leavenworth, Kansas	29.37	746.0	30.33	770.4	12	—11.1	80	nw.	14	6.3	.....	0	0	.....	.....	inap.	inap.	clear	A. W. Browne.
Lewiston, Idaho	29.30	744.2	30.17	766.3	31.5	— 0.3	94	calm	0	0	.....	.....	10 n	.....	.....	0.71	18.0	light snow	W. Bell.
Little Rock, Arkansas	29.81	757.2	30.14	765.5	39	3.9	65	calm	0	0	.....	4 cs	hz.	.....	.....	0	0	fair	W. U. Simons.
Los Angeles, California	29.64	752.8	30.04	763.0	47	8.3	56	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.46	748.3	30.06	763.5	32	0.0	78	sw.	10	4.5	.....	.....	10 s	.....	sw.	0.10	2.5	cloudy	L. M Dey.
Lynchburg, Virginia	29.18	741.2	29.90	759.4	41	5.0	89	nw.	1	0.4	.....	0	5s;fg	.....	sw.	0.17	4.3	fair	Louis Duane.
Mackinaw City, Michigan	28.73	729.7	29.43	747.5	23.0	— 5.0	88	w.	11	4.9	.....	.....	10 n	.....	.....	0.54	13.7	light snow	F. R. Day.
Macon, Fort, North Carolina	29.98	761.5	29.99	761.7	54.0	12.2	100	sw.	7	3.1	.....	.....	10 n	.....	w.	0.12	3.0	light rain	William Daly.
Madison, Wisconsin	28.74	730.0	29.83	757.7	10	—12.2	80	w.	15	6.7	.....	.....	10 s	.....	w.	0.02	0.5	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.63	651.0	30.18	766.6	9	—12.8	60	ne.	2	0.9	.....	10 k	0	.....	.....	0.24	6.1	cloudy	F. Burke.
McKavett, Fort, Texas	27.81	706.4	30.20	767.1	33	0.6	81	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Marquette, Michigan	28.73	729.7	29.51	749.5	12	—11.1	80	nw.	26	11.6	.....	.....	10 n	.....	.....	0.80	20.3	light snow	J. Gilligan.
Memphis, Tennessee	29.84	757.9	30.20	767.1	35	1.7	64	nw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	28.99	736.3	29.79	756.7	14	—10.0	64	w.	19	8.5	.....	0	0	.....	.....	0.04	1.0	clear	W. Line.
Missoula, Fort, Montana	26.71	678.4	30.17	766.3	18	— 7.8	87	nw.	15	6.7	.....	.....	10 s	.....	.....	0.30	7.6	threatening	I. H. Young.
Mobile, Alabama	30.03	762.7	30.07	763.6	49	9.4	63	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	C. A. Read.
Montgomery, Alabama	29.86	758.4	30.10	764.5	43.3	6.3	67	w.	5	2.2	.....	0	0	.....	.....	0.09	2.3	clear	J. B. McLaughlin
Moorhead, Minnesota	29.19	741.4	30.30	769.6	—26	—32.2	100	n.	20	8.9	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.91	734.3	29.97	761.2	37.0	2.8	72	sw.	12	5.4	.....	.....	10 s	.....	sw.	0.02	0.5	threatening	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.59	599.2	30.22	767.6	14.0	—10.0	100	sw.	72	32.2	.....	5 k	fg.	sw.	sw.	0	0	fair	S. W. Beall.
Nashville, Tennessee	29.53	750.0	30.14	765.5	34.5	1.4	74	w.	8	3.6	.....	4 cs	0	w.	.....	inap.	inap.	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.90	759 4	30.02	762.5	39	3.9	89	se.	18	8.0	.....	.....	10s;fg	.....	se.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.04	763.0	30.09	764.3	37	2.8	89	se.	20	8.9	.....	.....	9 s	.....	se.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.08	764.0	53.0	11.7	55	ne.	7	3.1	.....	0	sk.	.....	.....	0	0	clear	L. Dunne.
Newport, Rhode Island	30.08	764.0	30.13	765.3	36.0	2.2	89	e.	17	7.6	.....	4 c	2 s	w.	s.	0	0	fair	W. McGillivray.
New York, New York	29.74	755.4	29.93	760.2	41	5.0	100	e.	27	12.1	.....	3 cs	6 s	e.	e.	inap.	inap.	cloudy	J. B. Merrill.
Norfolk, Virginia	29.89	759.2	29.92	760.0	51	10.6	100	sw.	6	2.7	.....	.....	10 ks	.....	sw.	inap.	inap.	cloudy	Wm. Davis.
North Platte, Nebraska	27.20	690.9	30.32	770.1	12.6	—10.8	68	calm	0	0	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	E. F. Brady.
Olympia, Washington T'y	30.08	764.0	30.12	765.0	36.0	2.2	79	s.	1	0.4	.....	.....	10 s	.....	.....	0.24	6.1	cloudy	J. Dascomb.
Omaha, Nebraska	29.03	737.3	30.30	769.6	2.2	—16.0	52	n.	12	5.4	.....	5 c	0	.....	.....	inap.	inap.	fair	A. Poltak.
Ooglaamie, Alaska	30.62	777.7	30.64	778.2	—34.0	—36.7	100	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	P. H. Ray.
Oswego, New York	29.39	746.5	29.74	755.4	41.0	5.0	68	sw.	13	5.8	.....	.....	10 n	.....	sw.	inap.	inap.	light rain	J. G. Linsley.
Palestine, Texas	29.56	750.8	30.14	765.5	38.0	3.3	42	ne.	10	4.5	.....	5 cs	0	nw.	.....	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.02	762.5	30.06	763.5	52.3	11.3	76	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	29.77	756.1	29.88	758.9	46	7.8	83	se.	11	4.9	.....	0	8s;fg	.....	se.	0	0	cloudy	T. T. Townsend.
Pike's Peak, Colorado	17 40	442 0	30.10	764.5	8	—13.3	83	w.	.....	.....	6	.....	10 s	.....	w.	0	0	cloudy	H. Hall.
Ploche, Nevada	24.08	611.6	30.28	769.1	37	2.8	58	nw.	4	1.8	.....	3 c	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.04	737.6	29.89	759.2	35.0	1.7	73	w.	11	4.9	.....	.....	10 s	.....	w.	0.02	0.5	cloudy	W. A. Reid.
Poplar River, Montana	27.86	707.6	30.22	767.6	.....	.....	.....	nw.	.....	.....	1	8 k	0	w.	.....	0.07	1.8	cloudy	W. O. Maxwell.
Port Eads, Louisiana	30.03	762.7	30.04	763.0	55.1	12.8	90	n	11	4.9	.....	0	0	.....	.....	0	0	clear	H. B. Boyer.
Port Huron, Michigan	29.02	737.1	29.75	755.6	19.1	— 7.2	84	sw.	24	10.7	.....	.....	10 s	.....	sw.	0.04	1.0	cloudy	W. O. Bailey.
Portland, Maine	30.17	766.3	30.22	767.6	38.0	3.3	73	s.	13	5.8	.....	.....	10 s	.....	s.	0	0	cloudy	W. W. Elchelberger.
Portland, Oregon	30.04	763.0	30.12	765.0	43.9	6.6	93	nw.	1	0.4	.....	.....	10 n	.....	.....	0.43	10.9	light rain	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	54	12.2	100	s.	.....	.....	1	.....	10 n	.....	sw.	0.04	1.0	light rain	F. S. Coburn.
Prescott, Arizona	24.81	630.2	30.19	766.8	28.3	— 2.1	70	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Provincetown, Mass.	30.20	767.1	30.23	767.8	34	1.1	78	se.	23	10.3	.....	0	9 s	.....	se.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.00	763.5	30.07	763.8	62	16.7	93	n.	10	4.5	.....	.....	10 n	.....	n.	0.40	10.2	light rain	W. J. Evans.
Red Bluff, California	29.88	758.9	30.25	768.3	43	6.1	93	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	29.03	737.3	29.74	755.4	34.5	1.4	100	sw.	12	5.4	.....	.....	10 n	.....	w.	0.05	1.3	light rain	E. W. McGann
Roseburg, Oregon	29.08	753.9	30.25	768.3	51.6	10.9	81	s.	5	2.2	.....	0	9 s	.....	sw.	inap.	inap.	threatening	J. J. Nanry.
Sacramento, California	30.15	765.8	30.23	767.8	41.9	5.5	93	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.55	750.6	30.19	766.8	19.3	— 7.1	91	w.	12	5.4	.....	5 ck	0	w.	.....	inap.	inap.	fair	J. H. Weber.
St. Michael, Fort, Alaska	30.34	770.6	30.38	771.6	14	—10.0	100	s.	48	21.5	.....	.....	10 n	.....	.....	0.02	0.5	light snow	A. P. Leavitt.
St. Paul, Minnesota	29.08	738.6	30.03	762.7	— 6.0	—21.1	78	w.	16	7.2	.....	0	0	.....	.....	0.19	4.8	clear	P. F. Lyons.
St. Vincent, Minnesota	29.35	745.5	30.33	770.4	—28	—33.3	100	nw.	13	5.8	.....	0	0	.....	.....	inap.	inap.	clear	C. B Dilley.
Salt Lake City, Utah	25.59	650.0	30.16	766.1	41	5.0	82	calm	0	0	.....	.....	10 n	.....	.....	0.32	8.1	light rain	J. Craig.
San Antonio, Texas	29.34	745 2	30.07	763.8	40.0	4.4	73	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. J. Kenan.
San Diego, California	29.93	760.2	30.00	762.0	48.7	9.3	75	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.13	739.9	29.85	758.2	25	— 3.9	73	w.	24	10.7	.....	.....	10 s	.....	w.	0.04	1.0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.90	759.4	29.93	760.2	42.0	5.6	92	se.	25	11.2	.....	8 k	0	se.	.....	0.05	1.3	cloudy	B. A. Blundon.
San Francisco, California	30.18	766.6	30.24	768.1	48.5	9.2	93	s.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.11	587.0	30.16	766.1	33	0.6	65	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.94	760.5	30.04	763.0	57	13.9	77	sw.	6	2.7	.....	0	9 s	.....	sw.	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	20.52	073.6	30.38	771.6	0	—14.4	76	e.	2	0.9	.....	8 k	0	nw.	.....	0.16	4.1	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.88	758.9	30.13	765.3	38	3.3	53	ne.	6	2.7	.....	hz.	0	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.81	731.8	30.14	765.5	29	— 1.7	74	ne.	7	3.1	.....	hz.	0	.....	.....	0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.25	615.9	30.11	764.8	30.5	— 0.8	76	n.	4	1.8	.....	0	1 s	.....	.....	0	0	clear	N. D. Lane.
Sitka, Alaska	30.32	770.1	30.39	771.9	26	— 3.3	77	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.68	753.9	30.18	766.6	31.0	— 0.6	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	29.97	761.2	30.01	762.2	52	11.1	93	w.	4	1.8	.....	0	4 s	.....	sw.	0.10	2.5	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.04	712.2	30.18	766.6	25.3	— 3.7	86	ne.	1	0.4	.....	.....	10 s	.....	sw.	0.27	6.9	cloudy	H. Ulliford.
Springfield, Illinois	29.38	746.2	30.11	764.8	21	— 6.1	76	w.	17	7.6	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	T. B. Jennings.
Springfield, Missouri	28.70	729.0	30.22	767.6	22.0	— 5.6	87	nw.	9	4.0	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	J. H. Bryce.
Starkville, Miss.	29.69	754.1	30.19	766.8	37	2.8	61	nw	7	3.1	.....	3 c	3 s	.....	.....	0	0	fair	C. Dill.
Stevenson, Fort, Dakota	28.36	720.3	30.42	772.7	— 8	—22.2	58	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	26.91	683 5	30.05	763.3	49	9.4	40	sw.	11	4.0	.....	5 ck	0	w.	.....	0	0	fair	A. J. Warren.
Thatcher's Island, Mass.	30.17	766.3	30.23	767.8	35.5	1.9	84	s.	20	8.9	.....	.....	10 s	.....	s.	0	0	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.30	693.4	30.13	765.3	30	— 1.1	80	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.11	739.4	29.85	758.2	26	— 3.3	64	sw.	15	6.7	.....	.....	10 s	.....	w.	0.08	2.0	cloudy	A. Buell.
Tucson, Arizona	27.59	700.8	30.09	764.3	39	3.9	65	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.80	756.9	30.20	767.1	34	1.1	89	calm	0	0	.....	.....	10 n	.....	.....	0.99	25.1	light snow	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	34.3	1.3	66	w.	.....	.....	1	3 cs	3 s	sw.	w.	0	0	fair	D. Brooks.
Vicksburg, Mississippi	29.88	758.9	30.14	765.5	40.0	4.4	46	ne.	6	2.7	.....	les; hz	0	.....	.....	0	0	clear	James Kenealy.
Visalia, California	29.86	758.4	30.25	768.3	41.0	5.0	96	w.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	O. D. Stewart.
Washakie, Fort, Wyoming	24.39	619.5	30.18	766.6	11.8	—11.2	92	e.	5	2.2	.....	.....	10 n	.....	.....	0.36	9.1	heavy snow	T. M. Ambler.
Washington, D. C.	29.74	755.4	29.86	758.4	41.2	5.1	94	se	6	2.7	.....	.....	10 s	.....	s.	0.08	2.0	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.98	659.9	30.12	765.0	23	— 5.0	88	e.	18	8.0	.....	.....	10 s	.....	e.	0	0	threatening	F. H. Brandenburg.
Williamsport, Pa.	29.21	741.9	29.84	757.9	39	3.9	89	nw.	4	1.8	.....	.....	10 n	.....	.....	0.15	3.8	light rain	B. F. Hough.
Wilmington, N. Carolina	29.95	760.7	30.01	762.2	55	12.8	86	w.	3	1.3	.....	0	9 s	.....	w.	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.71	653.0	30.25	768.3	41	5.0	64	w.	15	6.7	.....	5 ck	4 s	w.	w.	0	0	cloudy	J. Grover.
Yankton, Dakota	28.93	734.8	30.35	770.9	3	—16.1	71	nw.	3	1.3	.....	0	0	.....	.....	0.05	1.3	clear	J. H. Atfield.
Yuma, Arizona	29.83	757.7	29.98	761.5	53.0	11.7	70	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
sub-series.																			
Bogota, U. S. Columbia	22.01	559.0	.....	.....	54.0	12.2	66	e.	5	2.2	.....	.....	9ks;n	.....	nw.	0	0	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	69	20.6	83	calm	0	0	.....	0	1 s	.....	e.	0	0	fine	Robert Johnston.
Paramaribo, S. A.	29.99	761.7	29.99	761.7	74	23.3	90	se.	.....	.....	2	5 k	5 ks	e.	.....	0.120	3.0	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.45	748.0	30.01	762.2	77	25.0	89	calm	.....	.....	0	5 ck	5 ks	calm	calm	0.20	5.1	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75	23.9	93	e.	.....	.....	2	0	0	.....	.....	0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.68	779.3	30.73	780.5	23	— 5.0	73	calm	.....	.....	0	4 c	.....	.....	.....	0	0	clear	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Walloe.
York Factory, B. A.	30.22	767.6	30.29	769.4	—30.0	—34.4	.....	nw.	10	4.5	.....	1 c	2 c	nw.	nw.	0	0	hazy	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
British Naval.																	
H. M. S. Amethyst, Port Stanley, Falkland Island†	29.81	757.2	50	10.0	86	w.			2–4		6	nw.					squally.
H. M. S. Audacious, Hong-Kong, China	29.94	760.5	59	15.0	87	ene.			2		10	ene.					drizzling.
H. M. S. Boadicea, S. 9° 30′ W. 11° 42′	29.97	761.2				ene.			3–4		2				1		d. clouds.
H. M. S. Champion, Singapore, Malay peninsula	29.90	759.4	80	26.7	91	calm			0		4						d. clouds.
H. M. S. Cleopatra, N. 31° 15′ E. 121° 29′	30.31	769.9	36.5	2.5	85	w.			1		10						squally.
H. M. S. Comus, S. 12° 00′, W. 77° 18′	29.93	760.2	67	19.4	90	se.			1		8						
H. M. S. Constance, S. 29° 06′ W. 46° 16′	30.07	763.8	76	24.4	85	ne.			1–2		2	ne.			2	s.	misty.
H. M. S. Curacoa, Yokohama, Japan			40.5	4.7	56	n.			6–8		9	n.			3	e.	blue sky.
H. M. Dock Yard, Bermuda, W. I.	30.23	767.8	67	19.4	94	ese.			1–2		9	ese.					hailing.
H. M. S. Dryad, N. 5° 30′, E., 77° 40′	29.83	757.7	82	27.8		nw.			2		10	n.			1	n.	overcast.
H. M. S. Eclipse, N. 18° 54′, E. 72° 49′	29.75	755.6	75	23.9		nne.			2–3		1						blue sky.
H. M. S. Euryalus, Trincomalee, Ceylon	29.70	754.4	80	26.7	82	n.			2		6						d. clouds.
H. M. S. Fawn, S. 6° 46′, W. 160° 01′	29.92	760.0	79.5	26.4	87	ese.			2		1				2	ese.	blue sky.
H. M. S. Flying Fish, N. 23° 35′, E. 117° 58′	30.11	764.8	51.5	10.8	93	ne.			7		10				4	ne.	overcast.
H. M. S. Fox Hound, Labuan Island, Borneo	29.84	757.9	78.5	25.8		n.			2		10				2	n.	raining.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.98	761.5	57	13.9	69	calm			0		0						blue sky.
H. M. S. Himalaya, N. 12° 23′, E. 58° 22′	29.95	760.7	84	28.9	83	ene.			3–4		4				2	nw.	d. clouds.
H. M. S. Iron Duke, N. 34° 07′, E. 27° 40′	30.08	764.0	56	13.3	87	nnw.			3–4		5	nw.			3	nw.	d. clouds.
H. M. S. Lark, S. 34° 50′, E. 174° 49′	30.13	765.3	69.3	20.7	87	nne.			3		5				sm'h		d. clouds.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.14	765.5	38.7	3.7	80	n.			1		0				2	ese.	misty.
H. M. S. Monarch, Port Said, Egypt	29.94	760.5	69	20.6	60	w.			1		1						blue sky.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.90	759.4	72.5	22.5		ne.			1		10						d. clouds.
H. M. S. Rocket, S. 40° 35′, W. 74° 05′	30.12	765.0	57	13.9	7	ssw.			3		2						blue sky.
H. M. S. Serapis, N. 24° 10′, E. 36° 22′	30.05	763.3	67	19.4	43	nnw.			3		3				2	nnw.	misty.
H. M. S. Swiftsure, S. 2° 46′, W. 87° 49′	29.96	761.0	71	21.7	95	sse.			2		4				3	s.	d. clouds.
H. M. S. Sylvia, S. 52° 44′, W. 73° 53′	29.85	758.2	46	7.8	88	w.			3–5		10						raining.
H. M. S. Thetis, S. 31° 24′, W. 71° 54′	29.98	761.5	60	15.6	76	sse.			5		1				5	s.	blue sky.
H. M. S. Tourmaline, Bombay, India	29.86	758.4				nw.			2		0						blue sky.
H. M. Tyne, Sierra Leone, Africa	29.90	759.4	81	27.2	75	nne.			1–2		0				2	ese.	misty.
H. M. S. Woodlark, Bushire, Persia	29.95	760.7	62.5	16.9	77	s.			4–5		9	se.					squally.
Portuguese Naval.																	
Tamega, Macao, China	30.08	764.1	57.2	14.0	83	n.			4		10		2 h'r	2 h'r			gloomy.
United States Naval.																	
Navy Yard, Pensacola, Fla*	30.00	762.0	66	18.9	31	n.	2	0.9			0		0	0			clear.
Navy Yard, Portsmouth, N. H*	30.22	767.6	34	1.1	90	se.	16	7.2			10	se.	0	0			cloudy.
Naval Hospital, Yokohama, Japan*	29.66	753.4	37.5	3.1	50	nnw.			6		0		0.37	9.4			clear.
Adams, Sitka, Alaska†	30.41	772.4	25	— 3.9	88	calm			0		0						clear.
Alaska, Mare Island, Cal	30.21	767.3	48	8.9	92	calm			0		0		0	0			clear.
Alliance, N. 13° 44′, W. 81° 00′	29.90	759.4	79	26.1	86	ne.			3		2		0	0	sm'h		clear.
Brooklyn, S. 41° 25′, W 59° 02′*	29.90	759.4	56	13.3	75	ese.	13	5.8			8	ese.	0	0	long	se.	fair.
Colorado, New York, N. Y.	30.02	762.5	40	4.4	100	se.	7	3.1			10	se.	0.15	3.8			overcast.
Enterprise, N. 20° 48′, W. 27° 20′*	30.24	768.1	71	21.7	90	ene.			6		5	se.			long	e.	fair.
Essex, Callao, Peru	29.90	759.4	66	18.9	90	calm			0		10						foggy.
Franklin, Norfolk, Va	29.92	760.0	53	11.7	86	sw.	7.5	3.4			8	sw.	inap.	inap.			fair.
Galena, Montevideo, Uruguay*	29.74	755.4	70	21.1	90	ssw.			3		10	s.			mod.	sw.	raining.
Hartford, Callao, Peru*	29.88	758.9	69	20.6	95	calm			0		8?		sm'h	s.	clear.?		
Independence, Mare Island, Cal	30.26	768.6	45	7.2	92	calm			0		0		0	0			clear.
Iroquois, S. 13° 37′, W. 82° 32′	29.92	760.0	74	23.3	81	se.			2		5	s.			long	sse.	fair.
Jamestown, N. 32° 08′, W. 52° 40′	30.48	774.2	69	20.6	94	ese.			1		8						cloudy.
Juniata, Malta, Mediterranean*	29.94	760.5	61	16.1	88	sw.			3		8	sw.	0	0			cloudy.
Kearsarge, Curacoa, Island, W. I	29.98	761.5	80	26.7	90	e.			4		2	e.			sm'h		fair.
Lackawanna, Honolulu, Sandwhich. Islands*	29.91	759.7	67	19.4	79	nw.			1		8	ne.					cloudy.
Lancaster, N. 40° 06′, E. 2° 35′	29.45	748.0	54	12.2	100	sw.			6		10	sw.			mod.	sw.	squally.
Michigan, Erie, Pennsylvania	30.33	770.4	25	— 3.9	88	w.			3		10						snowing.
Minnesota, New York, N. Y.	29.95	760.7	41	5.0	100	se.	7	3.1			8						raining.
Monocacy, Nagasaki, Japan	30.10	764.5	47	8.3	69	n.			2		8	nnw.					fair.
New Hampshire, Newport, R. I			37	2.8	90	se.			4		8	ssw.			sm'h		fair.
Nipsic, N. 24° 19′, W. 21° 40′	30.42	772.7	69	20.6	75	ene.			4		2	ene.			long	ene.	clear.
Onward. Callao, Peru*†	30.04	763.0	64	17.8	89	calm			0		8						foggy.
Palos, Tientsin, China*	30.44	773.2	22	— 5.6	100	w.			1		10	calm					cloudy.
Pensacola, S. 12° 00′, W. 77° 22′*	29.82	757.4	68	20.0	95	ese.			1		5		0	0	sm'h		fair.
Portsmouth, N. 23° 58′, W. 56° 54′	30.24	768.1	72	22.2	80	ese.			5		2	e.			long	e.	clear.
Powhatan, Boston, Mass	30.20	767.1	33	0.6	100	se.			2		5						fair.
Quinnebaug, Villafranche, France	29.74	755.4	56	13.3	74	ssw.			1		8	ssw.					
Ranger, N. 31° 18′, W 116° 36′*	29.95	760.7	58	14.4	87	ese.			1		0		0	0	long	w.	clear.
Richmond, Hong Kong, China*	29.98	761.5	59	15.0	100	e.			3		10	e.	0.075	1.9			cloudy.
Saratoga, New York, N. Y.	30.00	762.0	40	4.4	100	se.			3–5		8	se.	0	0			threatening.
St. Louis, League Island, Pa.	29.90	759.4	42	5.6	83	se.	10	4.5			8	se.	0	0			cloudy.
Tennessee, St. Thomas, W. I*	30.09	764.3	78	25.6	82	ene.	3	1.3			5	e.	0.125	3.2			fair.
Vandalia, N. 20° 04′ W. 72° 27′*	30.04	763.0	77	25.0	86	ese.			4		1						clear.
Wabash, Boston, Mass	30.19	766.8	34	1.1	79	se.	10	4.5			10	se.	0.50	12.7			cloudy.
Wachusetts, N. 24° 20′ W. 140° 38′	30.05	763.3	71	21.7	85	ese.			5		5	e.			mod.	se.	fair.
Wyandotte, Washington, D. C	29.91	759.7	51	10.6	93	nw.			3		5	nw.	0.7	18.			fair.
Yantic, Belize, Belize, C. A	30.02	762.5	75	23.9	100	nnw.			1		2				long		fair.
Merchant Marine.																	
S. S. Grecian, N. 14° 20′ W. 26° 20′*	30.08	764.0	78	25.6	73	ne.			6		0		0	0	sm'h		hazy.
S. S. Scandinavian, Boston, Mass	30.17	766 3	32	0.0		e.											d. clouds.
S. S. Indiana, Philadelphia, Pa†	29.99	761.0	42	5.6	91	se.			4		10	e.					overcast.
S. S. Lord Clive, N. 45° 22′, W. 49° 25′						nw.			5		0		16 h'r	16 h'r	st'g	nne.	clear.
S. S. Lord Gough, N. 44° 21′ W. 58° 29′	30.53	775.4	34	1.1		wsw.			2		2	w.	0	0	sm'h		clear.
S. S. Ohio, Liverpool, Eng	29.41	747.0	39	3.9	91	sse.			2		9	s.					hazy.
S. S. Anchoria, N. 40° 26′, W. 73° 36′†	29.98	761.5				se.			5		3	se.	0	0	sm'h		clear.
S. S. Bolivia, N. 42° 56′ W. 59° 27′	30.53	775.4	30	— 1.1	?	w.			2		10		20 h'r	20 h'r	sm'h		dull.
S. S. Dorian, N 42° 35′, W. 37° 10′*	29.86	756.9	52	11.1		w.			8		10	w.	0	0	r'gh	wnw.	
S. S. Utopia, N. 49° 38′, W. 37° 28′†	29.76	755 9	40	4.4		ne.			9		10	ne.	12 h'r	12 h'r	high	ne.	heavy rain.
S. S. Ailsa, N. 13° 14′, W. 75° 22′†	30.02	762.5	82	27.8	100	ene.			6		8	ene.	0	0	r'gh	ene.	cloudy.
S. S. Ambrose, Amazon river, Brazil†	30.00	762.0	81	27.2		var.			3		10	ne.	1 h'r	1 h'r			cloudy.
S. S. Landaff City, N. 47° 54′, W. 42° 20′			42	5.6		ne.			8		10	ne.	10 h'r	10 h'r	r'gh	ne.	
S. S. Auckland, S. 26° 47′, W. 16° 21′	30.12	765.0	76	24.4	73	s.			3		3						blue sky.
S. S. British Merchant, N. 8° 26′, W. 124° 00′	29.82	757.4	75.6	24.2	98	e.			5		10						raining.
S. S. Caldew, S. 34° 54′, W. 20° 27′	29.87	758.7	70.5	21.4	90	sw.			3		3						d. clouds.
S. S. City of Agra, S. 16° 24′, W. 32° 14′	30.04	763 0	80	26.7	90	ne.			6		6						showery.
S. S. May Hulse, S. 40° 02′, W. 56° 52′	29.62	752.3	57	13.9	94	sse.			6		10						raining.
S. S. Scotia, N. 8° 54′, E. 67° 25′	29.81	757.2	85.8	29.9	68	n.			4–6		4						d. clouds.
S. S. Lake Huron, N. 49° 07′, W. 32° 32′*	29.46	748.3	38	3.3		se.			6		10	sw.	4 h'r	4 h'r	mod	sse.	
S. S. Gallia, N. 49° 07′, W. 26° 00	29.92	760.0	46	7.8	62	var.			3		10		rain	rain	high	w.	gloomy.
S. S. Marathon, Liverpool, Eng	29.62	752.3	38	3.3		se.			3		10	se.	0	0			foggy.
S. S. Parthia, N. 49° 17′ W. 29° 01′	29.81	757.2	42	5.6	91	ese.			4		10	nw.	8 h'r	8 h'r	cf'd		raining.
S. S. Colima, N. 43° 34′ W. 43° 06′†	29.90	759.4				wnw.			9		7	wnw.			hv'y	nnw.	cloudy.
S. S. Canada, N. 48° 54′, W. 26° 40′			41.0	5.0		nw.			2	ck	0	nw.	0	0	h'vy	nw.	covered.
S. S. Labradore, N. 49° 37′ W. 18° 45′*†	29.88	758.9	41	5.0		w.			8		10	w.	rain	rain	h'vy	var.	
S. S. Arizona, N. 50° 11′, W. 24° 48′	29.81	757.2	42	5.6		nw.			5		8	w.	0	0	high	wnw.	cloudy.
S. S. Wisconsin, N. 50° 06′, W. 36° 25′	29.66	753.4	40	4.4		se.			4		10	se.	0	0	cross	n.	cloudy.
S. S. Rugia, N. 48° 01′, W. 35° 24′	29.47	748.3	42	5.6		var.			8		10		2 h'r	2 h'r	6	ese.	covered.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.			
MERCHANT MARINE.—Continued.																		
S. S. Silesia, Hamburg, Germany †	29.67	753.6	37.1	2.8	.....	sw.	.....	.....	6	.....	4?	.....	w.	0	0	.....	.....	cloudy.
S. S. Vandalia, Hamburg, Germany	29.71	754.6	39.7	4.3	.....	wsw.	.....	.....	4	.....	10	.....	W.	.....	.....	.....	.....	cloudy.
S. S. Mentmore, N 44° 38′, W. 44° 45′*	29.89	759.2	.....	.....	.....	nw.	.....	.....	7	.....	2	.....	nw.	0	0	high	nw.	clear.
S. S. Hevelius, S. 28° 10′, W. 46° 00′†	30.12	765.0	77	25.0	.....	ese.	.....	.....	4	.....	2	.....	e.	0	0	sm'h	.....	clear.
S. S. Colorado, N. 38° 45′, W. 74° 29′ †	29.95	760.7	44	6.7	.....	ese.	.....	.....	5	.....	8	.....	sw.	0	0	mod.	ne.	cloudy.
S. S. Rio Grande, New York, N. Y †	29.98	761.5	40	4.4	.....	se.	.....	.....	4	.....	10	.....	sw.	.....	.....	.....	.....	cloudy.
S. S. San Marcos, Galveston, Texas	30.24	768.1	48	8.9	.....	nne.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	
S. S. Archimede, Palermo, Sicily †	29.78	756.4	60	15.6	65	wnw.	.....	.....	2	.....	4	.....	wnw.	0	0	.....	.....	fair.
S. S. Hermod, N. 40° 00′, W. 66° 52′ †	30.22	767.6	42.8	6	.....	e.	.....	.....	2	.....	9	.....	s.	0	0	long	ene	fair.
S. S. Alleghany, N. 38° —′, W. 75° 15′ †	29.85	758.2	40	4.4	.....	e.	.....	.....	4	.....	8	.....	w.	0	0	long	ne.	hazy.
S. S. Dominion, N. 49° 42′, W. 41° 17′ *†	29.62	752.3	41	5.0	.....	ene.	.....	.....	6	.....	10	.....	ene.	rain	rain	r'gh	ene.	cloudy.
S. S. Chalmette, Algiers, La †	30.04	763.0	49	9.4	.....	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. New York, N 24° 25′, W 82° 45′ †	30.13	765.3	72	22.2	.....	e.	.....	.....	6	.....	8	.....	e.	0	0	long	e.	cloudy.
S. S. Erin, N. 48° 59′, W. 36° 54′	.....	.....	40	4.4	.....	ese.	.....	.....	8	.....	10	.....	e.	12 h'r	12 h'r	r'gh	ene.	
S. S. Greece, N 43° 46°, W 45° 45′	29.89	759.2	40	4.4	.....	nw.	.....	.....	9	.....	9	.....	nw.	.....	.....	h'vy	nw.	threatening.
S. S. Helvetia, Liverpool, Eng	29.47	748.5	38	3.3	.....	nne.	.....	.....	4	.....	10	.....	n.	hail	hail	.....	.....	foggy.
S. S. City of Alexandria, N. 22° 48′, W. 85° 05′	.....	.....	73	25.6	82	se.	.....	.....	3	.....	3	.....	se.	3 h'r	3 h'r	mod.	se.	showery
S. S. City of Merida, N. 39° 45′, W. 74° 18′ †	30.01	762.2	.....	.....	.....	se.	.....	.....	3	.....	10	.....	se.	o	o	light	se.	cloudy.
S. S. Braunschweig, S. 6° 59′, W. 33° 53′	29.91	759.7	83.0	28.3	79	ene.	.....	.....	4	.....	1	.....	ene.	3 h'r	3 h'r	light	ene.	clear.
S. S. Elbe, N. 49° 26′, W 9° 15′	29.47	748.5	44.6	7.0	.....	n.	.....	.....	5–6	.....	9	.....	ne.; nw	2 h'r	2 h'r	cross	var.	squally.
S. S. Gen. Werder, N 46° 04′, W. 42° 10′	29.41	747.0	.....	.....	.....	sw.	.....	.....	8	.....	10	.....	wsw.	9 h'r	9 h'r	h'vy	sw.	hazy.
S. S. Hermann, N. 49° 20′, W. 18° 35′	29.79	756.7	48	8.9	.....	wnw.	.....	.....	6	.....	2	.....	wnw.	3 h'r	3 h'r	6	wnw.	clearing.
S. S. Hohenstaufen, N. 26° 30′, W. 20° 48′	30.38	771.6	67.1	19.5	.....	ne.	.....	.....	5	.....	9	.....	ne.	o	o	r'gh	ne.	covered.
S. S. Hohenzollern, N. 3° 22′, W. 30° 12′	29.95	760.7	.....	.....	.....	ne.	.....	.....	2–5	.....	10	.....	.....	.....	.....	sm'h	e.	raining.
S. S. Main, N. 42° 20′, W. 55° 57′	30.47	773.9	39.2	4.0	.....	ne.	.....	.....	3	.....	8	.....	e.	6 h'r	6 h'r	sm'h	e.	fair.
S. S. Arabic, N. 35° 27′, E. 172° 40′*†	30.10	764.5	58	14.4	94	sse.	.....	.....	6	.....	10	.....	s.	hv'y	hv'y	h'vy	se.	overcast.
S. S. Belgic, Hong Kong, China *†	29.96	761.0	59	15.0	94	e.	.....	.....	1	.....	10	.....	e	3 h'r	3 h'r	sm'h	ne.	cloudy.
S. S. Gaelic, N. 29° 45′, E. 128° 37′	30.13	765.3	58	14.4	94	ne.	.....	.....	4	.....	8	.....	ne.	6 h'r	6 h'r	.....	nw.	cloudy.
S. S. Oceanic, N. 37° 41′, W. 124° 53′ †	30.47	773.9	53	11.7	93	n.	.....	.....	5	.....	3	.....	ne.	.....	.....	.....	.....	clear.
S. S. City of Augusta, New York, N. Y.	.....	.....	.....	.....	.....	nne.	.....	.....	6	.....	10	.....	.....	rain	rain	.....	.....	raining.
S. S. Mississippi, Portland, Oregon *†	30.18	766.6	45	7.2	.....	nnw.	.....	.....	1	.....	10	.....	nnw.	.....	.....	.....	.....	light rain.
S. S. Oregon, N. 38° 47° W. 123° 27′ †	30.38	771.6	53	11.7	93	nw.	.....	.....	2	.....	2?	.....	nw.	.....	.....	.....	.....	cloudy.†
S. S. Ancon, N. 36° 56′, W. 122° 22′†	30.18	766.6	52	11.1	86	n.	.....	.....	5	.....	0	.....	.....	.....	.....	short	var.	clear.
S. S. City of Chester, San Francisco, Cal *†	30.24	768.1	47	8.3	92	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Dakota, N. 40° 09′, W. 124° 25′	.....	.....	52	11.1	86	nw.	.....	.....	4	.....	10	.....	nw.	o	o	light	nw.	foggy.
S. S. G. W. Elder, N. 46° 52′, W. 124° 48′†	30.19	766.8	45	7.2	76	n.	.....	.....	2	.....	6?	.....	.....	o	o	.....	.....	overcast?
S. S. Orizaba, N. 35° 15′, W. 120° 50′ *†	30.12	765.0	56	13.3	87	nw.	.....	.....	6	.....	8	.....	wsw.	o	o	long	wsw.	cloudy.
S. S. Queen of the Pacific, Portland, Oregon†	30.13	765.3	.....	.....	.....	wnw.	.....	.....	.....	.....	8	.....	.....	.....	.....	.....	.....	rainy.
S. S. State of California, Portland, Oregon†	30.16	766.1	43	6.1	92	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. Victoria, San Francisco, Cal *†	30.26	768.6	45	7.2	.....	wsw.	.....	.....	3	.....	2	.....	ssw.	.....	.....	.....	.....	foggy.
S. S. Australia, S. 15° 55′, W. 172° 09′ *†	29.70	754.4	76	24.4	100	ese.	.....	.....	3	.....	7	.....	se.	3 h'r	3 h'r	mod.	se.	rainy.
S. S. City of Pekin, N. 33° 37′, E. 142° 44′ †	29.76	755.9	52	11.1	79	n.	.....	.....	6	.....	10	.....	n	.....	.....	mod.	nw.	cloudy.
S. S. City of Rio de Janeiro, N. 9° 42′, W. 85° 34′	.....	.....	77	25.0	60	ne.	.....	.....	1	.....	0	.....	.....	0	0	light	sw.	clear.
S. S. City of Sydney, Sydney, N. S. W†	29.60	751.8	70	21.1	85	se.	.....	.....	4	.....	10	.....	se.	½ h'r	½ h'r	sm'h	.....	raining.
S. S. City of Tokel, N. 32° 30′, E. 167° 02′†	30.05	763.3	61	16.1	82	nne.	.....	.....	6	.....	10	.....	nne.	light	light	mod.	nne.	overcast.
S. S. Colon, N. 32° 40′, W. 74° 00′	30.06	763.5	74	23.3	.....	sse.	.....	.....	6	.....	10	.....	se.	o	o	large	sse.	overcast.
S. S. Grenada, Panama Panama†	29.87	758.7	75	23.9	86	nw.	.....	.....	1	.....	0	.....	.....	o	o	.....	.....	clear.
S. S. Zealandia, S. 29° 11′, E. 177° 14′*	30.11	764.8	70	21.1	90	ne.	.....	.....	3	.....	1	.....	n.	.....	.....	.....	.....	fine.
S. S. Valencia, Puerto, Cabello, Venezuela†	30.03	762.7	79	26.1	82	w.	.....	.....	1	.....	1	.....	calm	o	o	.....	.....	
S. S. Belgenland, Jersey City, N. J †	29.99	761.7	43	6.1	83	se.	.....	.....	9	.....	9	.....	se.	o	o	.....	.....	cloudy
S. S. Pennland, N. 44° 16′, W. 52° 15′	30.28	769.1	32	0.0	90	wsw.	.....	.....	4	.....	8	.....	w.	o	o	short	nne.	fine.
S. S. Switzerland, N. 45° 22′, W. 51° 34′ †	30.37	771.4	.....	.....	.....	nw.	.....	.....	5	.....	0	.....	.....	rain	rain	r'gh	nnw.	clear.
S. S. Waesland, N. 50° 04′, W. 14° 03′	29.65	753.1	42	5.6	.....	wnw.	.....	.....	6	.....	8	.....	w.	rain	rain	high	w.	threatening.
S. S. Leerdam, N. 42° 30′, W. 58° 22′ *	30.47	773.9	41	5.0	82	wnw.	.....	.....	3	.....	10	.....	s.	o	o	sm'h	w.	cloudy.
S. S. Maas, Rotterdam, Holland	.....	.....	38.8	3.8	.....	nw.	.....	.....	2	.....	3	.....	se.	1 h'r	1 h'r	.....	.....	fair.
S. S. Schiedam, N. 47° 36′, W. 37° 07′	29.32	744.7	57.4	14.1	89	nw.	.....	.....	6	.....	8	.....	sw.	16 h'r	16 h'r	h'vy	sw.	raining.
S. S. W. A. Scholten, Browerhaven, Germany	29.73	755.1	37.5	3.1	95	s.	.....	.....	2	.....	1	.....	s.	o	o	sm'h	sw.	
S. S. Zaandam, N. 45° 46′, W. 41° 40′	.....	.....	51	10.6	.....	var.	.....	.....	4–0	.....	.....	.....	.....	.....	.....	.....	.....	
S. S. State of Florida, N. 48° 03′, W. 38° 09′	29.29	744.0	53	11.7	.....	w.	.....	.....	2	.....	8 n	.....	nw.	7 h'r	7 h'r	o	wnw.	squally.
S. S. State of Georgia, N. 43° 17′, W. 54° 52′†	30.46	773.7	35	1.7	.....	nnw.	.....	.....	2	.....	8	.....	w.	12 h'r	12 h'r	h'vy	.....	cloudy.
S. S. State of Indiana, N. 54° 15′, W. 21° 00′†.	29.34	745.2	39	3.9	.....	w.	.....	.....	5	.....	7?	.....	.....	.....	.....	con.	.....	clear?
S. S. Iowa, N. 50° 39′, W. 19° 14′ *†	29.80	756.9	42	5.6	.....	w.	.....	.....	7	.....	6	.....	w.	10 h'r	10 h'r	rg'h	w.	snowy.
S. S. Britannic, N. 49° 22′, W. 38° 34′ †	29.45	748.0	38	3.3	100	ne.	.....	.....	6	.....	3	.....	w.	rain	rain	long	w.	fair.
S. S. Republic, N. 47° 10′, W. 37° 40′ †	29.58	751.3	54	12.2	100	wsw.	.....	.....	7	.....	10	.....	.....	10 h'r	10 h'r	r'gh	w.	threatening.
S. S. Marengo, N. 41° 58′, W. 00° 00′	.....	.....	.....	.....	.....	n.	.....	.....	6	.....	10	.....	wsw.	8 h'r	8 h'r	6	sw.	drizzling
S. S. Otranto, N. 41° 51′, W. 66° 00′	.....	.....	34	1.1	.....	ese.	.....	.....	6	.....	10	.....	n.	3 h'r	3 h'r	mod.	n.	raining.
S. S. Romano, New York, N. Y	.....	.....	42	5.6	.....	sse.	.....	.....	3	.....	5?	.....	wsw.	.....	.....	sm'h	wsw.	clear.?
S. S. Salerno, N. 48° 38′, W. 23° 21′	29.99	761.7	47	8.3	.....	w.	.....	.....	6	.....	8	.....	.....	snow	snow	.....	.....	threatening.
S. S. Catherine Whiting, Philadelphia, Pa†	29.91	759.7	.....	.....	.....	s.	.....	.....	3	.....	8	.....	nw.	1 h'r	1 h'r	mod.	sw.	cloudy.
S. S. Saxon, Philadelphia, Pa †	29.93	760.2	44	6.7	.....	sse.	.....	.....	6	.....	.....	.....	s.	o	o	.....	.....	
MISCELLANEOUS.									2	.....	10	.....	.....	.....	.....	.....	.....	raining.
Bg. Abbie Clifford, Havana, Cuba, W. I †	30.06	763.5	72	22.2	.....	ne.	.....	.....	3	.....	9	.....	ne.	sh'rs	sh'rs	.....	.....	
Bk. Alcira, Punta Palma, U. S. C	29.96	761.0	.....	.....	.....	ene.	.....	.....	3	.....	1	.....	.....	o	o	.....	.....	clear.
Bk. Alpha, Demerara, British Guiana, S. A *†	29.97	761.2	82	27.8	.....	e.	.....	.....	3	.....	5	.....	.....	2 h'r	2 h'r	.....	.....	fair.
S. Armenia, N. 38° 14′, W 68° 11′*	30.11	764.8	55	12.8	87	ene.	.....	.....	4	.....	10	.....	sse.	o	o	con.	var.	overcast.
Schr. Anna A. Holton, Tampico Mexico†	30.07	763.8	68	20.0	.....	sw.	.....	.....	2	.....	0	.....	.....	o	o	sm'h	.....	clear
Bg. Annie R. Storer, S. 21° 18′, W. 34° 10′*	30.20	767.1	.....	.....	.....	ne.	.....	.....	5	.....	5	.....	n.	2 h'r	2 h'r	mod.	ene.	squally.
Bk. Anna Thormann, S. 4° 41′, W. 21° 30′	30.10	764.5	80.1	26.7	76	se.	.....	.....	4	.....	3 k	.....	se.	o	o	mod.	se.	fair.
S. S. Antonio Lopez, N. 34° 42′, W. 10° 53′	30.26	768.6	63.5	17.5	72	w.	.....	.....	5	.....	9	.....	.....	o	o	r'gh	w.	cloudy.
Schr. A. R. Lewis, St. Pierre, W. I †	30.15	765.8	83	28.3	.....	ne.	.....	.....	1	.....	2	.....	ene.	2 h'r	2 h'r	.....	.....	fair.
Bk. B. F. Watson, Hong Kong, China†	29.97	761.2	62	16.7	.....	nne.	.....	.....	4	.....	0?	.....	.....	6 h'r	6 h'r	.....	.....	light rain?
Bkt. Bonny Doon, N. 25° 33′, W. 47° 43′ *†	30.30	769.6	.....	.....	.....	e.	.....	.....	3	.....	2	.....	ese.	o	o	long	e.	clear
Bk. Bremen, N. 22° 42′, W. 52° 23′ *	30.18	766.6	.....	.....	.....	ene.	.....	.....	5	.....	6	.....	ene.	2 h'r	2 h'r	mod.	var.	heavy rain.
Bk. Champion, Reedy Island, Del †	29.74	755.4	63.0	17.2	.....	sse.	.....	.....	4	.....	.....	.....	w.	2 h'r	2 h'r	.....	.....	
Bk. Commerce, Cadiz, Spain †	29.97	761.2	59	15.0	.....	sw.	.....	.....	7	.....	10	.....	sw.	1 h'r	1 h'r	.....	.....	
S. Cornelius, N. 56° 56′, E. 2° 22′*†	29.69	754.1	41.4	5.2	.....	n.	.....	.....	4	.....	2	.....	.....	3 h'r	3 h'r	long	wnw.	hailing.
Bkt. C. S. Bushnell, N. 38° 20′, W. 43° 15′	.....	.....	.....	.....	.....	wsw.	.....	.....	5	.....	8	.....	w.	h'vy	h'vy	sm'h	nw.	hazy.
S. S. D. J. Foley, N. 25° 51′, W. 74° 36′*†	30.07	763.8	78	25.6	95	ese.	.....	.....	5	.....	3	.....	ese.	o	o	r'gh	se.	clear.
S. E. B. Sutton, N. 4° —′, W. 26° —′†	29.96	761.0	80	26.7	84	ene.	.....	.....	4	.....	4	.....	e.	o	o	mod.	var.	fair.
Bk. E. D. Bigelow, N. 42° 20′, W. 30° 00′ *†	29.90	759.4	.....	.....	.....	wsw.	.....	.....	8	.....	5	.....	wsw.	o	o	cross	wsw.	hazy.
Schr. Edith R. Seward, N. 20° 03′, W 67° 45′†	30.15	765.8	80	26.7	.....	e.	.....	.....	2	.....	3	.....	e.	2 h'r	2 h'r	short	e.	clear.
Bk. Edmund Phinney, S. 39° 29′, W. 53° 30′ †	29.75	755.6	64	17.8	.....	n.	.....	.....	4	.....	10	.....	.....	3½ h'r	3½ h'r	cross	ssw.	raining.
S. E. J. Spicer, N. 45° 54′, W 19° 40′	30.06	763.5	50	10.0	100	nw.	.....	.....	5	.....	5	.....	sw.	sq 'lls	sq 'lls	long	nw.	fair.
Bk. E. L. Pettingill, S. 51° 50′, W. 55° 40′*†	29.60	751.8	48	8.9	.....	nw.	.....	.....	6	.....	10	.....	wnw.	light	light	sm'h	sw.	rainy.
Bk. Essex, S. 20° 48′, E. 37° 23′ *†	29.80	756.9	86	30.0	.....	se.	.....	.....	6	.....	0	.....	.....	o	o	.....	sse.	
Schr. F. E. McDonald, Jacksonville, Fla †	30.01	762.2	60	15.6	.....	calm	.....	.....	0	.....	10	.....	.....	o	o	.....	.....	fine.
S. Festina Lente, N. 57° 21′, E. 3° 01′	29.53	750.0	47	8.3	.....	nnw.	.....	.....	2	.....	1	.....	nnw.	o	o	mod.	wnw.	clear.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†	29.93	760.2	43	6.1	92	calm	.....	.....	0	.....	10	.....	calm	.....	.....	.....	.....	cloudy.
S. S. Foscolia, London, Eng	.....	.....	.....	.....	.....	ne.	.....	.....	3	.....	10	.....	.....	o	o	.....	.....	dull.
Bk. Freya, Matanzas, Cuba, W. I	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	o	o	.....	.....	hazy
S. George Stetson, S. 38° —′, W. 53° —′ *†	29.66	753.4	62	16.7	83	sw.	.....	.....	6	.....	7	.....	sw.	light	light	chop	sw.	cloudy.
S. Grecian, N. 10° 35′, W. 33° 57′†	30.05	763.3	75	23.9	81	ene.	.....	.....	6	.....	4	.....	ene.	o	o	mod.	ne.	hazy.
Bk. Grey Eagle, N. 1° 27′, W. 39° 40′ *†	29.85	758.2	.....	.....	.....	e.	.....	.....	6	.....	5	.....	ne.	2 h'r	2 h'r	long	nne.	clear.
Bk. Hattie G. McFarland, N. 16° 40′, W. 72° 00′ *†	30.13	765.3	78	25.6	.....	e.	.....	.....	5	.....	3	.....	e.	o	o	short	e.	

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Schr. Hattie Weston, Point Heren Trinidad, W. I*†	30.10	764.5	79	26.1		e.			4		5		e.	2 h'r	2 h'r	short	ese.	fair.
Bk. Heinrich & Tonio, N. 29° 06′, W. 52° 49′			72	22.2		e.			3		4		e.	o	o	sm'h		fair.
Bk. Horace Scudder, N. 33° 11′, W. 60° 00′ *†	30.35	770.9	66	18.9		ese.			2		o?					light	s.	cloudy.?
Schr. Isabel Alberto, New York, N. Y †	30.00	762.0				se.			6		8		sw.	rain	rain			cloudy.
Schr. James Slater, N. 2° 22′, W. 46° 50*†	29.96	761.0	81	27.2		ese.			2		o			5 h'r	5 h'r	light	ne.	fine.
Bk. Johanne, N. 20° 33′, W. 57° 08′ *†	30.12	765.0	77	25.0		ne.			5		5		ne.	o	o	mod.	nne.	fine.
Schr. John L. Thomas, Cape Gracias a Dios, C. A*†	30.06	763.5				ene.			3		2		e.	½h'r	½h'r	mod.	ese.	clear.
Bkt. Josephine, S. 36° 42′, W. 2° 17′†	29.89	759.2	67	19.4	84	sse.			3		10			16 h'r	16 h'r	rg'h	sse.	heavy rain.
S. S. J. W. Wilson, Off Brazos, Texas*†	29.98	761.5	55	12.8		calm			0		0			o	o			clear.
Light House Tender Laurel, Key West, Fla†	30.04	763.0	70	21.1		ne.			3		7		ene.	1½h'r	1½h'r			fair.
Bk. Louise Adelaide, Matanzas, Cuba, W. I.	30.02	762.5	54	12.2		sw.			2		10		ssw.	3½h'r	3½h'r	short	se.	squally.
Bg. L. & W. Armstrong, N. 35° 11′, W. 66° 31′ *†						e.			1		3		e.	o	o	sm'h		fine.
S. S. Malabar, N. 37° 54′, W. 69° 08′ *†	30.34	770.6				se.			5		10		se.	o	o	mod.	nw.	cloudy.
Bk. Mary A. Troop, N. 51° 10′, W. 60° 00′*†	30.12	765.0				se.			5				s.	4 h'r	4 h'r	mod	se.	cloudy.
Schr. Minnie A. Bonsall, Mayport, Fla †	29.40	746.7				se.			6		10		se.	o	o	light	nw.	threatening.
S. M. P. Grace, S. 4° 21′, W. 32° 30′ *—	30.08	764.0	64	17.8		wsw.					fg.							foggy.
Bg. Myrtle, St. Thomas, W. I *†	30.04	763.0	80	26.7		e.			2–5		2		ese.	o	o	short	ne.	
Bkt. Norena, Matanzas, Cuba, W. I*†	29.95	760.7				ene.			4		1		ene.	o	o			fair.
Schr. Ocean Traveler, St. John's, Antigua †	30.13	765.3				n.			1		7		n.	2 h'r	2 h'r	sli't	ne.	threatening.
Bk. Ottawa, Alicante Harbor, Spain*	30.10	764.5				e.			4		3							fair.
S. Paramita, San Francisco, Cal†	29.70	754.4				calm			0		0			2 h'r	2 h'r			clear.
S. S. Raleigh, N. 33° 00′, W. 77° 00′ *†	30.15	765.8	47	8.3		calm			0					o	o			clear.
Bk. Reindeer, Martinique, W. I *—	30.00	762.0	65	18.3		nw.			4		10		nw.	10 h'r	10 h'r	long	sse.	rainy.
S. Rudolph, N. 41° 23′, W. 29° 30′*	30.15	765.8				ene.			2					o	o			squally.
S. Sacramento, S. 35° 49′, W. 19° 43′ *†	29.98	761.5	59.0	15.0		wsw.			6		6		var.	2 h'r	2 h'r	long	wsw.	hazy.
Bk. Saga, N. 41° 45′, W. 48° 56′	30.33	770.4	69	20.6	70	s.			2		10			o	o	mod.	sw.	overcast.
Schr. S. B. Hubbard, Mayport, Fla *†			43	6.1		nnw.			8		fg		nnw.	rain	rain	9	var.	foggy.
Bk. Southern Belle, N. 36° —′, W. 75° —′*†	30.05	763.3	67	19.4		wnw.			1		10			o	o			foggy.
S. Sovereinn of the Seas, S. 33° 21′, W. 126° 13′ *†	29.90	759.4	58	14.4		sw.			2		8		nnw.	hv'y	hv'y	rg'h	sse.	cloudy.
Bk. Sunbeam, Lisbon, Portugal*†	30.06	763.5	69	20.6	90	n.			2		5		n.	o	o	sharp	ne.	hazy.
S. Titan, S. 5° 49′, W. 32° 11′ *†	30.02	762.5	58	14.4	88	nw.			7		10		nw.	8 h'r	8 h'r			cloudy.
Bk. Wandering Jew, Montevideo, Uruguay †	30.00	762.0	82	27.8	87	se.			4		2		se.	o	o	sm'h	ese.	fine.
Schr. Wm. Wiler, Pointe a Pitre, Guadeloupe, W. I†	29.78	756.4	74	23.3		sw.			7		10		sw.	o	o			threatening.
Bk. Xenia, N. 5° 28′ W. 28° 27′*†	30.03	762.7				e.			1		0							clear.
	30.04	763.0	83	28.3		ese.			5		2		ese.	¼ h'r	¼ h'r	sm'h	se.	clear.

International Chart I. January 31, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B. Hazen, Chief Signal Officer.

SUMMARY AND REVIEW

OF

INTERNATIONAL METEOROLOGICAL OBSERVATIONS,

JANUARY, 1883.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea.		Result of Simultaneous Observations for January, 1883.																		Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.													
						Actual.		Reduced.					Directions.									Total Movement.				
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles.	Kil.	0–10	Inch.	Mill.
Algerian.	° ′		° ′																							
Nemours	N. 35 06	W.	1 50	0.00 m.	13	4	.....	.....	30.19	766.8	62.1	16.7	81.7	15	.....	.....	.....	5	1	3	7	.....	.....	.....	1	0.37	9.3
Algiers	N. 36 47	E.	3 05	0.20 p.m.	72	22	.....	.....	30.11	764.9	58.6	14.8	69.5	2	4	9	8	2	1	1	.....	4	.....	.....	5	6.00	152.5
La Calle	N. 36 54	E.	8 26	0.42 p.m.	36	11	.....	.....	30.05	763.3	64.0	17.8	66.7	2	3	16	8	2	.....	.....	.....	.....	.....	.....	4	6.15	156.2
Tunis	N. 36 42	E.	10 13	0.49 p.m.	46	14	.....	.....	30.04	763.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saida	N. 34 51	E.	0 10	0.09 p.m.	2844	867	.....	.....	30.21	767.4	58.5	14.7	65.3	3	4	7	2	6	2	5	2	.....	.....	.....	3	1.75	44.5
Tebessa	N. 35 24	E.	8 06	0.40 p.m.	2890	881	.....	.....	30.14	765.6	50.0	10.0	74.1	4	4	18	4	1	.....	.....	.....	.....	.....	.....	2	3.66	93.0
Gerfville	N. 33 45	E.	1 10	0.13 p.m.	4285	1306	.....	.....	.....	.....	49.8	9.9	59.3	4	12	9	4	2	.....	.....	.....	.....	.....	.....	2	1.42	36.0
Laghouat	N. 33 48	E.	2 53	0.20 p.m.	2559	780	.....	.....	30.22	767.5	54.7	12.6	56.6	5	7	2	6	5	3	.....	3	.....	.....	.....	2	0.83	21.1
Biskra	N. 34 51	E.	5 41	0.31 p.m.	410	125	.....	.....	30.17	766.3	61.9	16.6	39.2	.....	24	.....	.....	.....	.....	2	.....	5	.....	.....	4	0.86	21.8
Australian.																										
Melbourne	S. 37 50	E.	144 58	9.47 p.m.	91	28	29.92	759.9	30.01	762.2	63.9	17.7	71	.....	.....	.....	5	11	11	2	2	.....	.....	.....	4	0.42	10.7
Austro-Hungarian.																										
Agram	N. 45 48	E.	15 53	1.12 p.m.	536	163	29.58	751.2	30.15	765.9	32.7	0.4	80.0	1	.....	1	7	5	3	1	13	.....	.....	.....	7	0.37	9.5
Cracow	N. 50 04	E.	20 00	1.28 p.m.	722	220	29.30	744.2	30.11	764.7	29.1	—1.6	.....	1	3	4	5	1	2	5	10	.....	.....	.....	6	0.86	21.9
Eperies	N. 48 58	E.	21 15	1.33 p.m.	820	250	29.22	742.3	30.15	765.7	25.5	—3.6	83.5	4	2	.....	.....	4	2	.....	1	18	.....	.....	7	0.33	8.4
Gratz	N. 47 04	E.	15 28	1.10 p.m.	1171	357	28.84	732.6	30.16	766.0	31.8	—0.1	72.6	.....	4	2	7	9	4	4	.....	1	.....	.....	4	0.70	17.7
Hermannstadt	N. 45 47	E.	24 13	1.45 p.m.	1352	412	28.64	727.5	30.13	765.4	29.1	—1.6	81	1	5	6	3	1	10	4	1	.....	.....	.....	4	1.34	34.1
Kremsmünster	N. 48 03	E.	14 08	1.04 p.m.	1260	384	28.63	727.3	30.10	764.4	30.4	—0.9	82.5	.....	4	5	2	.....	.....	4	12	6	.....	.....	7	2.74	69.5
Lemberg	N. 49 50	E.	24 00	1.44 p.m.	978	298	29.08	738.7	30.13	765.4	26.2	—3.2	73.0	2	6	5	2	7	5	.....	4	.....	.....	.....	7	1.28	32.5
Neu Schmecks	N. 49 10	E.	20 14	1.29 p.m.	3297	1005	26.59	675.4	30.10	764.5	31.6	—0.2	71.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	1.19	30.3
Pola	N. 44 52	E.	13 51	1.04 p.m.	105	32	29.92	759.9	30.04	762.9	45.0	7.2	69.8	2	3	4	.....	2	1	5	14	.....	.....	.....	7	1.26	31.9
Szathmar	N. 47 46	E.	22 53	1.39 p.m.	430	131	29.63	752.7	30.08	764.1	31.3	—0.4	75	5	.....	4	5	1	5	10	1	.....	.....	.....	6	1.23	31.3
Szegedin *a*	N. 46 15	E.	20 10	1.29 p.m.	256	78	29.85	758.3	30.14	765.5	33.4	0.8	73.1	4	1	3	.....	7	2	1	5	7	.....	.....	7	0.43	10.9
Trieste	N. 45 39	E.	13 46	1.04 p.m.	85	26	29.96	760.9	30.06	763.4	41.9	5.5	64.6	.....	1	2	.....	.....	3	5	13	7	.....	.....	6	0.95	24.1
Vienna	N. 48 12	E.	16 22	1.14 p.m.	663	202	29.41	746.9	30.16	766.1	31.6	—0.2	71.2	3	3	4	1	.....	10	2	1	7	.....	.....	6	1.51	38.3
British.																										
Aberdeen	N. 57 10	W.	2 06	0.00 m.	89	27	29.64	752.8	29.74	755.4	40.3	4.6	77.8	.....	1	3	7	11	9	.....	.....	.....	.....	.....	6	3.08	78.2
Armagh	N. 54 21	W.	6 39	11.42 a.m.	207	63	29.47	748.5	29.71	754.6	42.5	5.8	86.3	.....	.....	1	7	11	7	4	1	.....	.....	.....	7	.....	.....
Bidston	N. 53 24	W.	3 04	11.56 a.m.	197	60	.....	.....	29.81	757.2	42.0	5.6	80.7	.....	.....	4	6	4	5	10	2	.....	.....	.....	7	.....	.....
Bolton	N. 53 35	W.	2 28	11.58 a.m.	500	152	29.28	743.7	29.82	757.4	39.8	4.3	87.6	2	1	4	5	6	6	7	.....	.....	.....	.....	9	.....	.....
Bradford *d*	N. 53 48	W.	1 47	0.01 p.m.	366	111	29.39	746.5	29.79	756.7	41.6	5.3	84.7	.....	2	5	9	1	6	1	3	.....	.....	.....	7	5.00	127.0
Bridgetown	N. 13 04	W.	59 37	8.10 a.m.	28	9	30.01	762.2	30.04	763.0	79.5	26.4	72.9	.....	.....	.....	.....	.....	.....	.....	31	.....	.....	.....	4	.....	.....
Cardington	N. 52 08	W.	0 27	0.06 p.m.	109	33	.....	.....	.....	.....	43.9	6.6	83.7	1	3	3	9	4	5	5	1	.....	.....	.....	7	.....	.....
Chatham	N. 51 25	E.	0 33	0.10 p.m.	120	37	29.80	756.9	29.93	760.2	43.5	6.4	86.0	1	.....	3	9	4	2	6	2	4	.....	.....	8	.....	.....
Falmouth	N. 50 09	W.	5 04	11.48 a.m.	211	64	29.64	752.8	29.87	758.7	47.5	8.6	81.4	.....	.....	6	6	5	7	7	1	.....	.....	.....	8	.....	.....
Fort Napier	S. 30 00	E.	31 00	2.12 p.m.	2205	672	27.58	700.1	29.80	756.9	77.0	25.0	62.8	2	.....	2	.....	4	5	17	1	.....	.....	.....	8	.....	.....
Galway	N. 53 15	W.	9 03	11.32 a.m.	32	10	29.59	751.6	29.63	752.6	45.1	7.3	83.1	.....	.....	2	13	10	2	4	.....	.....	.....	.....	7	0.68	160.7
Gibraltar	N. 36 09	W.	5 21	11.47 a.m.	50	15	30.12	765.0	30.17	766.3	59.3	15.2	93.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	.....	.....
Glasgow	N. 55 53	W.	4 17	11.51 a.m.	184	56	29.52	749.8	29.73	755.1	40.9	4.9	82.3	1	.....	4	8	3	3	7	5	.....	.....	.....	7	.....	.....
Greenwich	N. 51 29		0 00	0.08 p.m.	159	48	29.75	755.6	29.92	760.0	44.2	6.8	81.7	1	1	2	7	6	2	7	5	.....	.....	.....	8	.....	.....
Guernsey	N. 49 27	W.	2 41	11.58 a.m.	275	84	29.63	752.6	29.93	760.2	46.0	7.8	83.1	.....	2	3	7	6	6	6	1	.....	.....	.....	7	.....	.....
Kew	N. 51 28	W.	0 19	0.07 p.m.	34	10	29.89	759.2	29.93	760.2	43.9	6.6	79.6	.....	1	4	8	3	3	7	5	.....	.....	.....	8	.....	.....
Leicester	N. 52 39	W.	1 08	0.04 p.m.	245	75	29.61	752.1	29.87	758.7	42.6	5.9	82.0	.....	3	4	10	2	8	1	3	.....	.....	.....	7	.....	.....
Malta	N. 36 00	E.	14 30	1.06 p.m.	70	21	29.89	759.2	29.97	761.2	58.8	14.9	78.3	5	6	6	6	1	3	1	3	.....	.....	.....	6	1.66	42.2
Nassau	N. 25 04	W.	77 22	6.58 a.m.	44	13	30.15	765.8	30.20	767.1	71.7	22.1	86.3	2	1	.....	1	4	9	7	7	.....	.....	.....	6	.....	.....
Oscott *a*	N. 52 28	W.	1 55	0.00 m.	483	147	29.33	745.0	29.86	758.4	41.1	5.1	85.8	.....	1	3	6	8	3	6	3	.....	.....	.....	7	.....	.....
Oxford	N. 51 46	W.	1 17	0.03 p.m.	210	64	29.07	753.6	29.90	759.4	43.4	6.3	83.6	.....	1	2	7	5	3	8	3	.....	.....	.....	7	.....	.....
Plymouth	N. 50 22	W.	4 10	11.51 a.m.	69	21	29.80	756.9	29.87	758.7	46.0	7.8	87.7	.....	1	3	9	4	5	5	3	1	.....	.....	8	.....	.....
Sandwick Manse	N. 59 05	W.	3 20	11.54 a.m.	94	29	29.55	750.6	29.65	753.1	40.1	4.5	83.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....
Scutari Cemet'y	N. 41 00	E.	29 03	2 04 p.m.	60	18	30.00	762.0	30.07	763.8	42.6	5.9	71.9	4	1	.....	4	2	1	3	14	2	.....	.....	8	.....	.....
Sheffield	N. 53 23	W.	1 28	0.02 p.m.	260	79	29.56	750.8	29.85	758.2	41.9	5.5	83.2	.....	1	3	10	8	.....	3	4	2	.....	.....	8	3.61	91.7
Stilloth Rectory	N. 54 52	W.	3 22	11.54 a.m.	28	9	29.73	755.1	29.76	755.9	41.3	5.2	84.6	.....	2	6	6	2	8	6	1	.....	.....	.....	7	3.76	95.5
Stonyhurst	N. 53 51	W.	2 28	11.58 a.m.	361	110	.....	.....	29.83	757.7	40.3*b*	4.6*b*	82.1*b*	2	.....	5	7	3	4	8	1	1	.....	.....	9	.....	.....
Straifield Turglas	N. 51 17	W.	0 53	0.04 p.m.	197	60	29.70	754.4	29.92	760.0	43.7	6.5	85.4	1	1	7	7	2	8	3	2	.....	.....	.....	7	.....	.....
Truro	N. 50 16	W.	5 04	11.53 a.m.	43	13	29.82	757.4	29.87	758.7	49.9	9.9	77.9	.....	.....	8	9	3	6	4	1	.....	.....	.....	8	.....	.....
Valencia	N. 51 55	W.	10 18	11.27 a.m.	23	7	29.66	753.4	29.68	753.9	47.8	8.8	79.6	...	1	4	5	9	8	3	1	.....	.....	.....	9	.....	.....
Canadian.																										
Bathurst *d*	N. 47 39	W.	65 43	7.45 a.m.	35	11	.....	.....	.....	.....	1.9	—16.7	.....	.....	8	.....	1	2	1	.....	.....	15	.....	.....	2	.....	.....
Charlottetown	N. 46 14	W.	63 10	7.55 a.m.	38	12	30.02	762.5	30.07	763.8	6.9	—13.9	91.4	3	5	12	8	.....	2	.....	.....	1	5932	9547	6	2.74	69.6
Chatham	N. 47 03	W.	65 29	7.45 a.m.	56	17	30.04	763.0	30.11	764.8	—2.2	—19.0	92.2*a*	2	4	7	5	.....	.....	1	2	10	2432	3914	4	1.90	48.3
Cornwall	N. 45 01	W.	74 43	7.09 a.m.	175	53	29.91	759.7	30.13	765.3	4.5	—15.3	94.8	2	5	7	3	.....	.....	12	2	.....	.....	.....	7	1.04	26.4
Dalhousie *a*	N. 48 04	W.	66 21	7.32 a.m.	45	14	30.04	763.0	30.09	764.3	—2.7	—19.3	.....	.....	2	16	1	.....	.....	2	.....	9	.....	.....	4	1.80	45.7
Father Point	N. 48 31	W.	68 28	7.34 a.m.	20	6	30.06	763.5	30.08	764.0	0.7	—17.4	85.2*a*	1	8	2	14	2	1	1	2	.....	14051	22612	7	0.96	24.4
Fort Garry *a*	N. 49 51	W.	97 07	5.39 a.m.	754	230	29.34	745.2	30.25	768.3	—19.7	—28.7	94.9	13	6	2	1	4	2	.....	2	.....	8794	14152	4	0.26	6.6
Fredericton	N. 45 57	W.	66 39	7.41 a.m.	59	18	30.08	764.0	30.15	765.8	—1.5	—18.6	92.4	2	13	3	1	.....	.....	1	2	9	.....	.....	8	4.03	102.6
Granton	N. 43 12	W.	81 21	6.43 a.m.	1015	309	28.96	735.6	30.17	766.3	12.4	—10.9	94.8	3	2	5	7	4	2	3	1	4	.....	.....	8	2.15	54.4
Halifax	N. 44 39	W.	63 36	7.53 a.m.	122	37	29.98	761.5	30.12	765.0	13.0	—10.6	97.3	5	4	16	1	1	1	.....	1	2	.....	.....	5	4.34	110.2
Hamilton	N. 43 16	W.	79 53	6.49 a.m.	338	103	29.70	754.4	30.12	765.0	15.5	—9.2	79.1	.....	1	.....	22	.....	.....	.....	1	7	.....	.....	8	2.50	63.5
Kingston	N. 44 14	W.	76 30	7.02 a.m.	397	94	29.79	756.7	30.15	765.8	10.1	—12.2	86.3	5	3	4	2	5	1	3	8	.....	6786	10921	8	1.74	44.2
Montreal	N. 45 31	W.	73 33	7.13 a.m.	187	57	29.94	760.5	30.16	766.1	3.2	—16.0	87.3	4	1	8	1	4	6	3	2	2	.....	.....	7	2.01	51.1
Ottawa	N. 45 26	W.	75 45	7.05 a.m.	224	68	29.87	758.7	30.14	765.5	2.3	—16.5	90.9	8	.....	2	4	.....	2	1	.....	14	.....	.....	6	2.38	60.5
Parry Sound	N. 45 19	W.	80 01	6.48 a.m.	625	191	29.35	745.5	30.11	764.8	9.2	—12.7	77.7	2	.....	5	2	7	.....	9	1	5	8021*c*	12908*c*	8	3.55	90.2
Peterboro *b*	N. 44 17	W.	78 20	6.54 a.m.	688	210	29.39	746.5	30.23	767.8	9.7	—12.4	73.6	1	.....	10	1	1	.....	4	3	9	.....	.....	6	1.10	27.9
Port Dover	N. 42 47	W.	80 13	6.47 a.m.	635	194	29.40	746.7	30.15	765.8	16.2	—8.8	97.6	4	1	8	6	3	.....	2	6	1	7125	11466	8	2.42	61.5
Port Stanley	N. 42 40	W.	81 13	6.43 a.m.	592	180	29.45	748.0	30.15	765.8	16.2	—8.8	85.5	5	1	12	2	.....	2	6	3	.....	.....	.....	8	1.90	48.3
Quebec	N. 46 48	W.	71 12	7.23 a.m.	293	89	29.85	758.2	30.15	765.8	0.4	—17.6	85.4	1	7	9	2	.....	1	1	5	5	.....	.....	6	4.63	117.6
Rockliffe	N. 46 10	W.	77 48	6.57 a.m.	418	127	29.62	752.3	30.12	765.0	—2.3	—19.1	85.7	.....	1	4	8	3	7	2	2	2	12111	19490	8	2.89	73.4
Sangeen	N. 44 30	W.	81 21	6.42 a.m.	686	209	29.33	745.0	30.09	764.3	15.2	—9.3	92.8*b*	2	1	4	8	3	7	2	2	2	.....	.....	6	1.98	50.3
Saint Andrews	N. 45 04	W.	81 06	6.34 a.m.	47	14	30.08	764.0	30.13	765.3	10.1	—12.2	90.8	7	11	3	.....	2	1	1	3	3	.....	.....	6	2.33	59.2
Saint John, N. b.	N. 45 17	W.	66 03	7.44 a.m.	150	46	29.96	761.0	30.14	765.5	8.8	—12.9	97.9	13	7	1	2	.....	1	.....	7	.....	.....	.....	5	2.78	70.6
Saint Pierre	N. 46 47	W.	56 08	8.24 a.m.	?	?	.....	.....	29.86	758.4	21.8	—5.7	.....	3	15	7	1	.....	2	.....	2	1	.....	.....	.....	0.24	6.1
Stratford	N. 43 23	W.	81 00	6.44 a.m.	1182	360	28.76	730.5	30.16	766.1	11.4	—11.4	93.7	1	1	9	3	2	4	1	.....	10	.....	.....	9	3.13	79.5
Sydney	N. 46 08	W.	60 10	8.07 a.m.	37	11	29.97	761.2	30.03	762.7	11.3	—11.5	96.8	2	2	9	10	.....	1	1	2	4	8484	13653	7	3.56	90.4
Toronto	N. 43 39	W.	79 23	6.50 a.m.	350	107	29.74	755.4	30.15	765.8	15.3	—9.3	86.0	5	3	9	5	2	.....	3	4	.....	9412	15147	8	2.55	64.8
Windsor	N. 44 59	W.	03 58	7.53 a.m.	87	26	29.98	761.5	30.08	764.0	11.2	—11.6	91.9	1	5	10	4	4	.....	2	1	4	.....	.....	5	.....	.....
Woodstock	N. 43 08	W.	80 47	6.48 a.m.	980	299	29.04	737.6	30.17	766.3	14.1	—9.9	89.1	2	.....	1	12	4	1	3	3	5	.....	.....	8	2.97	75.4
Yarmouth	N. 43 50	W.	66 02	7.44 a.m.	61	19	30.05	763.3	30.12	765.0	20.2	—6.6	79.0	2	10	5	.....	1	1	5	5	2	7949	12792	8	3.80	96.5
Cape Colony																										
Cape St. Francis	S. 34 10	E.	24 50	1.47 p.m.	25	7	29.93	760.2	29.96	761.0	71.4	21.9	79.6	.....	.....	6	10	1	3	8	3	.....	.....	.....	4	0.74	18.8
Springbok *g*	S. 29 45	E.	17.43	1.19 p.m.	?	?	27.86	707.6	.....	.....	82.5	28.1	46.4	.....	.....	.....	.....	4	6	11	3	.....	.....	.....	.....	0	0

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea.		Result of Simultaneous Observations for January, 1883.																		Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.													
						Actual.		Reduced.					Directions.									Total Movement.				
				Feet.	Metrs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0-10	Inch.	Mill.
CHINESE. (*Sub*).	° ′	° ′																								
Sungshu-chwang	N. 36 07	E.103 56	7.04 p.m.	4987	1520	24.65	626.0	.....	.....	17.8	— 7.9	.....	2	1	15	.....	.....	1	4	8	.....	.....	.....	1	.....	.....
Tchang-kia-tchouang	N. 38 17	E.116 14	7.53 p.m.	98	30	30.30	769.6	30.41	772.4	26.2	— 3.2	70	3	.....	.....	6	3	1	.....	4	14	.....	.....	2	0.43	11.0
Zi-Ka-Wei	N. 31 12	E.121 26	8.14 p.m.	22	7	30.33	770.4	30.35	771.0	33.8	1.0	82	4	8	5	1	.....	1	10	.....	2	.....	.....	5	0.00	15.3
DANISH.																										
Copenhagen	N. 55 41	E. 12 36	0.58 p.m.	43	13	29.96	761.0	30.01	762.2	33.1	0.6	82	1	3	4	4	5	9	3	1	1	.....	.....	8	.....	.....
Fanöe	N. 55 27	E. 8 24	0.42 p.m.	20	6	29.95	760.7	29.97	761.2	32.7	0.4	89	1	2	6	4	1	8	7	2	.....	.....	.....	6	.....	.....
Godthaab	N. 64 11	W. 51 46	8.41 a.m.	36	11	29.17	740 9	29.21	742.0	13.8	—10.1	84	11	7	.....	1	1	.....	1	10	.....	.....	.....	7	.....	.....
Ivigtut	N. 61 12	W. 48 00	8.56 a.m.	16	5	29.11	739.4	29.13	739.9	13.6	—10.2	.....	1	.....	.....	1	.....	5	.....	...	24	.....	.....	7	.....	.....
Jacobshavn	N. 69 13	W. 50 55	8.44 a.m.	42	13	29.33	744.9	29.37	746.1	4.3	—15.4	.....	1	.....	.....	2	4	3	4	.....	17	.....	.....	5	.....	.....
Stykkisholm	N. 65 05	W. 22 46	10.37 a.m.	36	11	29.14	740.1	29.18	741.2	31.1	— 0.5	88	...	...	.....	.....	6	9	5	10	1	.....	.....	8	.....	.....
Thorshavn	N. 62 02	W. 6 44	11.41 a.m.	29	9	29.52	749.8	29.56	750.7	41.0	5.0	81	2	1	2	6	9	8	.....	3	.....	.....	.....	8	.....	.....
Upernavik	N. 72 47	W. 56 00	8.24 a.m.	39	12	29.40	746.7	29.45	747.9	—4.4	—20.2	.....	4	.....	.....	1	.....	.....	17	.....	9	.....	.....	4	.....	.....
Vestervig	N. 56 47	E. 8 20	0.41 p.m.	82	25	29.85	758.2	29.94	760.5	32.7	0.4	89	.....	3	1	6	2	4	8	5	2	.....	.....	5	.....	.....
FRENCH.																										
Agen	N. 44 12	E. 0 38	0.11 p.m.	604	184	29.44	747.7	30.10	764.6	46.4	8.0	93.7	.....	1	3	.....	1	2	.....	.....	24	.....	.....	.....	0.85	21.6
Alençon	N. 48 26	E. 0 05	0.09 p.m.	476	145	29.46	748.3	30.01	762.3	41.4	5.2	93.7	7	1	1	9	9	2	.....	2	.....	.....	.....	7	2.13	54.0
Arras	N. 50 18	E. 2 46	0.19 p.m.	239	73	29.72	755.0	29.99	761.8	39.2	4.0	88.1*k*	.....	2	6	4	5	4	7	3	.....	.....	.....	3	1.35	34.4
Avignon	N. 43 57	E. 4 48	0.27 p.m.	65	20	29.94	760.5	30.02	762.5	47.3	8.5	64.2	15	7	.....	.....	.....	3	3	3	.....	.....	.....	4	2.76	70.1
Bar-sur-Seine	N. 48 07	E. 4 22	0.25 p.m.	518	158	29.49	749.0	30.06	763.6	40.3	4.6	82	1	1	3	7	6	6	6	1	.....	.....	.....	8	2.14	54.3
Beauvais	N. 49 26	E. 2 05	0.16 p.m.	246	75	29.76	755.8	30.03	762.8	41.5	5.3	79.9	.....	3	4	3	4	6	9	2	.....	.....	.....	7	2.38	60.4
Besançon	N. 47 14	E. 6 02	0.32 p.m.	846	258	29.08	738.7	30.02	762.4	40.8	4.9	82.0	3	.....	.....	.....	11	1	1	15	.....	.....	.....	.....	3.91	99.3
Bordeaux	N. 44 50	E. 0 32	0.06 p.m.	243	74	29.77	756.2	30.04	763.0	47.5	8.6	76.9	1	2	2	3	4	12	6	1	.....	.....	.....	6	1.78	45.2
Bourges	N. 47 10	E. 2 26	0.17 p.m.	510	156	29.49	749.0	30.06	763.5	42.4	5.8	84.3	5	.....	4	6	7	2	2	5	.....	.....	.....	.....	1.85	46.9
Brest	N. 48 24	W. 4 30	11.50 a.m.	210	64	29.71	754.5	29.95	760.7	47.8	8.8	88.9	.....	1	5	8	3	5	7	.....	2	.....	.....	7	7.64	194.0
Caen	N. 49 11	W. 0 21	0.07 p.m.	69	21	29.89	759.2	29.97	761.2	44.1	6.7	81.5	8	4	2	3	.....	1	5	8	.....	.....	.....	4	1.97	50.0
Chalons-sur-Marne	N. 48 57	E. 4 21	0.25 p.m.	294	90	29.68*e*	753.8*e*	30.02*e*	762.4*e*	39.4*e*	4.1*e*	81.3*f*	1*e*	1	2	4	3	16	1	.....	...	.....	.....	7	2.24	56.8
Charleville *b*	N. 49 46	E. 4 49	0.27 p.m.	476	145	29.51	749.5	30.02	762.6	38.5	3.6	76.8*e*	1	.....	2	3	2	6	11	4	.....	.....	.....	7	2.90?	73.7?
Clermont-Fd	N. 45 46	E. 3 05	0.20 p.m.	1273	388	28.07	728.2	30.05	763.3	43.9	6.6	72.1	13	2	4	3	5	3	1	.....	.....	.....	.....	6	1.50	38.2
Cluny	N. 46 26	E. 4 39	0.27 p.m.	787	240	29.20	741.6	30.07	763.8	39.4	4.1	79.3	7	3	4	0	1	1	.....	6	3	.....	.....	.....	1.59	40.3
Commercy	N. 48 46	E. 5 35	0.30 p.m.	797	243	29.19	741 3	30.08	764.0	36.9	2.7	90.5	.....	.....	.....	8	2	3	3	12	3	.....	.....	7	3.48	88.5
Gap	N. 44 33	E. 6 05	0.32 p.m.	2424	739	27.45	697.1	30.05	763.3	39.7	4.3	70	3	1	2	2	.....	1	4	5	13	.....	.....	3	2.26	57.4
Gréasque	N. 43 25	E. 5 37	0.31 p.m.	1056	322	28.87	733.2	30.01	762.3	47.5	8.6	67.2	3	.....	.....	.....	10	7	2	9	.....	.....	.....	5	3.34	84.8
Grenoble	N. 45 12	E. 5 43	0.31 p.m.	715	218	29.28	743.7	30.08	764.0	40.6	4.8	77.8	3	5	1	2	.....	2	16	2	.....	.....	.....	.....	2.58	65.6
Gueret	N. 46 10	E. 1 52	0.16 p.m.	1486	453	28.44	722.4	30.06	763.4	42.4	5.8	74.8	2	3	5	8	3	3	2	2	3	.....	.....	.....	2.90	73.7
Lamballe	N. 48 28	W. 2 31	11.58 a.m.	252	77	29.67	753.6	29.95	760.7	45.1	7.3	81.6	1	.....	6	5	5	10	4	.....	.....	.....	.....	6	2.12	53.9
Lescar	N. 43 20	W. 0 26	0.06 p.m.	525	160	29.45	747.9	30.02	762.4	51.8	11.0	70.9	.....	2	11	3	.....	2	12	1	.....	.....	.....	4	1.96	49.9
Lorient	N. 47 45	W. 3 21	11.55 a.m.	86	26	29.89	759.1	29.99	761.7	47.7	8.7	77.8	1	2	2	6	5	4	8	3	.....	.....	.....	8	3.61	91.8
Lyon	N. 45 41	E. 2 30	0.25 p.m.	981	299	29.00	736.5	30.09	764.2	39.6	4.2	79.4	5	7	4	.....	1	7	4	3	.....	.....	.....	8	1.61	40.8
Mans	N. 48 01	E. 0 12	0.09 p.m.	285	87	29.72	754.8	30.04	763.0	41.9	5.5	87.9	3	1	5	7	2	9	3	1	.....	.....	.....	6	3.52	89.5
Marseille	N. 43 18	E. 5 23	0.29 p.m.	246	75	29.73	755.1	30.00	762.0	51.4	10.8	71.3	1*a*	8	7	3	.....	2	7	2	.....	.....	.....	.....	4.73	120.3
Mont Louis	N. 42 30	E. 2 07	0.16 p.m.	5203	1586	24.76	628.8	29.60	751.7	37.4	3.0	59.2	2	4	5	17	1	1	.....	1	.....	.....	.....	4	2.10	53.3
Montpellier	N. 43 37	E. 3 53	0.24 p.m.	118	36	29.88	758.9	30.01	762.2	50.0	10.0	77.5	11	.....	.....	.....	1	9	3	5	2	.....	.....	2	5.27	133.8
Nancy	N. 48 42	E. 6 11	0.33 p.m.	725	221	29.22	742.1	30.03	762.7	36.7	2.6	83.2	6	5	5	5	6	.....	.....	4	.....	.....	.....	.....	1.44	36.5
Nantes	N. 47 13	W. 1 33	0.02 p.m.	134	41	29.89	759.2	30.04	762.9	47.8	8.8	76.8	1	3	1	7	4	3	9	3	.....	.....	.....	8	3.78	95.9
Perpignan	N. 42 42	E. 2 53	0.19 p.m.	105	32	29.91	759.7	30.02	762.6	52.7	11.5	63.5	7	9	.....	2	3	2	1	6	1	.....	.....	6	2.64	67.1
Pic du Midi (Sum-	N. 42 56	W. 0 08	0.08 p.m.	9380	2859	21.11	536.2	.....	.....	23.0	— 5.0	.....	.....	8	6	5	.....	2	.....	10	.....	.....	.....	6	5.10	129.7
Privas	N. 44 45	E. 4 36	0.26 p.m.	997	304	28.97	735.8	30.07	763.8	42.8	6.0	72.5*e*	16	3	.....	.....	12	.....	.....	.....	.....	.....	.....	5	4.82	122.4
Puy de Dome	N. 45 46	E. 2 58	0.20 p.m.	4813	1467	25.05	630.2	.....	.....	29.7	— 1.3	88.9	4	1	3	8	4	3	4	3	2	.....	.....	6	4.79	121.7
Rochefort	N. 45 56	W. 0 58	0.04 p.m.	29	9	29.99	761.7	30.02	762.5	48.2	9.0	83.9	.....	1	3	4	7	5	3	6	2	.....	.....	4	9.33	237.
Roche-sur-Yon	N. 46 40	W. 1 26	0.02 p.m.	198	60	29.77	756.2	29.99	761.8	48.9	7.7	73.3	...	3	3	4	7	5	7	2	.....	.....	.....	5	3.68	93.4
Rodez	N. 44 21	E. 2 34	0.18 p.m.	2050	625	27.86	707.7	30.06	763.4	42.8	6.0	79.0	1	5	8	2	2	4	4	1	4	.....	.....	.....	3.06	77.6
Rouen	N. 49 26	E. 1 05	0.12 p.m.	39	12	29.94	760.5	29.99	761.7	43.2	6.2	79.8	2	1	2	7	2	9	3	5	.....	.....	.....	6	2.51	63.8
Saint Lo *c*	N. 49 06	W. 1 05	0.04 p.m.	134	41	.....	.....	.....	.....	43.2	6.2	78.8	.....	3	7	5	1	6	6	.....	.....	.....	.....	6	2.24	56.9
Saint Maur	N. 48 48	E. 2 21	0.17 p.m.	162	49	29.86	758.5	30.03	762.7	41.9	5.5	79.9	2	1	3	4	8	1	7	3	2	.....	.....	6	1.81	46.0
Toulouse	N. 43 37	E. 1 27	0.14 p.m.	636	194	29.37	746.0	30.10	764.4	46.8	8.2	84.9	1	8	6	4	2	8	1	1	.....	.....	.....	6	1.75	44.5
Tours	N. 47 24	E. 0 41	0.11 p.m.	107	51	28.85	758.2	30.03	762.7	44.6	7.0	82.9	2	1	1	10	2	1	4	10	.....	.....	.....	4	3.25	82.6
Versailles	N. 48 48	E. 2 07	0.16 p.m.	445	136	29.52	749.7	30.01	762.2	41.4	5.2	81.8*e*	.....	1	7	8	2	7	6	.....	.....	.....	.....	.....	2.19	55.6
Sub-Series.																										
St. Martin du Hinx	N. 43 35	W. 1 16	0.03 p.m.	131	40	29.95	760.7	30.07	763.8	50.9	10.5	71.8	5	3	6	7	2	1	3	2	2	.....	.....	6	3.59	91.2
GERMAN.																										
Ansbach	N. 45 18	E. 10 36	0.50 p.m.	1358	414	28.58	726.0	30.11	764.7	33.4	0.8	77.0	2	1	4	4	3	2	9	3	3	.....	.....	6	1.91	48.4
Bamberg	N. 49 54	E. 10 54	0.51 p.m.	787	240	29.19	741.5	30.04	763.0	35.4	1.9	72.8	1	6	4	2	.....	7	.....	2	9	.....	.....	5	1.54?	39.1?
Berlin	N. 52 30	E. 13 19	1.02 p.m.	131	40	29.89	759.3	30.06	763.5	33.1	0.6	71.1	1	5	3	4	.....	6	7	3	2	.....	.....	7	0.93	23.5
Breslau	N. 51 07	E. 17 02	1.17 p.m.	482	147	29.57	751.0	30.10	764.5	32.4	0.2	68.0	3	4	4	5	2	9	3	.....	1	.....	.....	6	0.99	25.1
Carlsruhe	N. 49 01	E. 8 25	0.42 p.m.	404	123	29.74	755.4	30.07	763.7	37.8	3.2	73.9	.....	.....	.....	13	5	1	2	10	.....	.....	.....	7	1.74	44.1
Cassel	N. 51 19	E. 9 28	0.46 p.m.	669	204	29.27	743.5	29.98	761.6	35.6	2.0	79.6	5	4	1	.....	14	3	2	2	.....	.....	.....	6	1.26	31.9
Frankfort on M	N. 50 08	E. 8 41	0.43 p.m.	338	103	29.68	753.9	30.06	763.6	36.9	2.7	73.9	4	.....	3	5	4	2	6	7	.....	.....	.....	7	1.76	44.8
Friedrichshafen	N. 47 39	E. 9 29	0.46 p.m.	1355	413	28.60	726.4	30.09	764.3	36.0	2.2	75.0	2	1	8	4	5	.....	2	9	.....	.....	.....	8	1.59	40.5
Hamburg	N. 53 33	E. 9 58	0.48 p.m.	85	26	29.96	760.9	30.05	763.2	32.5	0.3	87.6	1	1	3	8	1	7	8	1	1	.....	.....	6	1.59	40.4
Kiel	N. 54 19	E. 10 04	0.48 p.m.	13	4	30.00	762.0	30.02	762.4	34.0	1.1	81.4	.....	3	3	6	.....	8	8	3	.....	.....	.....	6	1.83	46.4
Leipsic	N. 51 20	E. 12 24	0.58 p.m.	390	119	29.63	752.7	30.07	763.8	34.3	1.3	74.4	1	3	2	3	7	5	5	5	.....	.....	.....	6	0.92	23.3
Magdeburg	N. 52 09	E. 11 37	0.54 p.m.	177	54	29.85	758.2	30.05	763.2	34.7	1.5	70.8	2	2	4	4	2	4	9	4	.....	.....	.....	6	0.95	24.2
Memel	N. 55 43	E. 21 07	1.32 p.m.	39	12	30.00	763.6	30.11	764.7	25.7	— 3.5	88.3	3	5	1	3	6	8	1	4	.....	.....	.....	7	1.80	45.6
Munich	N. 48 09	E. 11 34	0.54 p.m.	1732	528	28.19	716.1	30.06	763.4	33.3	0.7	76.1	7	3	3	4	1	1	6	5	1	.....	.....	7	1.27	32.3
Neufahrwasser	N. 54 24	E. 18 40	1.25 p.m.	16	5	30.11	764.7	30.12	765.1	30.6	— 0.8	79.5	1	2	3	7	5	9	1	3	.....	.....	.....	7	0.46	11.6
Neustadt	N. 49 21	E. 8 08	0.41 p.m.	479	146	29.51	749.5	30.04	762.9	37.4	3.0	79.7	2	.....	4	3	1	.....	2	8	11	.....	.....	7	1.58	40.2
Stuttgart	N. 48 47	E. 9 11	0.45 p.m.	833	254	29.09	738 8	30.01	762 3	36.5	2.5	77.2	5	.....	6	2	.....	.....	7	11	.....	.....	.....	7	0.79	20.1
Wustrow	N. 54 21	E. 12 24	0.58 p.m.	23	7	30.04	763 0	30.06	763.0	32.0	0.0	89.9	4	.....	2	6	3	8	7	1	.....	.....	.....	8	0.83	21.0
GREEK.																										
Athens	N. 37 58	E. 23 44	1.43 p.m.	361	110	29.62	752.4	30.02	762.5	52.0	11.1	.....	9	2	1	6	2	3	.....	8	.....	.....	.....	7	3.69	93.7
INDIAN.																										
Kurachee	N. 24 47	E. 67 04	4.36 p.m.	49	15	30.00	761.9	30.05	763.2	74.0	23.3	46	.....	3	9	12	.....	1	4	2	.....	.....	.....	3	0.33	8.4
Deesa	N. 24 16	E. 72 14	4.57 p.m.	466	142	29.47	748.5	29.95	760.7	78.0	25.6	25	6	10	6	6	2	.....	.....	...	1	.....	.....	2	0.14	3.6
Bombay	N. 18 54	E. 72 49	5.00 p.m.	37	11	29.89	759.3	29.93	760.2	79.9	26.6	61	4	14	12	1	.....	.....	.....	.....	.....	.....	.....	2	0.12	3.0
Poona	N. 18 28	E. 74 10	5.05 p.m.	1849	564	28.05	712.4	29.90	759.5	80.6	27.0	25	.....	2	6	2	..	4	12	5	.....	.....	.....	3	0	0
Belgaum	N. 15 52	E. 74 42	5.07 p.m.	2550	777	27.37	695.1	29.91	759.6	76.9	24.9	35	.....	.....	.....	4	5	.....	10	11	1	.....	.....	4	0.05	1.3
Lahore	N. 31 34	E. 74 20	5.05 p.m.	732	223	29.25	742.8	30.02	762.6	60.6	15.9	58	.....	.....	.....	2	.....	1	4	1	23	.....	.....	4	2.39	60.7
Roorkee	N. 29 52	E. 77 56	5.20 p.m.	887	270	29.08	738.5	30.01	762.2	63.0	17.2	52	.....	.....	1	8	.....	1	2	1	.....	18	.....	4	5.37	136.4
Agra	N. 27 10	E. 78 05	5.20 p.m.	555	169	29.43	747.6	30.02	762.4	68.0	20.0	49	1	3	10	.....	1	1	7	3	5	.....	.....	3	1.97	50.0
Nagpur	N. 21 09	E. 79 11	5.24 p.m.	1025	312	28.91	734.2	29.96	761.0	76.8	24.9	40	.....	2	1	3	4	2	2	1	16	.....	.....	3	0.39	9.9
Jubulpore	N. 23 09	E. 79 59	5.28 p.m.	1341	409	28 61	726.8	30.00	761.9	71.3	21.8	50	5	2	.....	.....	2	2	.....	.....	3	17	.....	3	0.57	14.5
Lucknow	N. 26 50	E. 81 00	5.32 p.m.	369	113	29.64	752.8	30.03	762.7	65.7	18.7	58	1	1	2	1	.....	1	1	.....	24	.....	.....	2	4.72	119.9
Alahabad	N. 25 26	E. 81 52	5.35 p.m.	307	94	29.69	754.1	30.02	762.4	62.8	17.1	75	.....	2	1	.....	.....	.....	.....	.....	25	.....	.....	2	2.68	68.1
Patna	N. 25 37	E. 85 08	5.49 p.m.	183	56	29.84	757.8	30.03	762.7	65.2	18.4	63	1	4	15	.....	2	2	4	1	2	.....	.....	3	1.93	49.0
Hazaribagh	N. 24 00	E. 85 24	5.50 p.m.	2007	612	27.95	709.9	30.03	762.8	62.8	17.1	54	10	10	3	1	.....	1	1	4	.....	.....	.....	2	1.11	28.2
Cuttack	N. 20 29	E. 85 54	5.52 p.m.	80	24	29.91	759.8	30.00	761.9	74.8	23.8	60	1	4	2	.....	2	3	.....	4	15	.....	.....	2	0	0
Calcutta	N. 22 33	E. 88 21	6.01 p.m.	21	6	29.99	761.8	30.02	762.4	67.7	19.8	61	10	4	4	1	1	.....	2	1	8	.....	.....	1	0.07	1.8
Dhubri	N. 26 07	E. 89 50	6.08 p.m.	115	35	29.90	759.4	30.02	762.6	65.9	18.8	76	.....	2	.....	2	.....	1	3	7	16	.....	.....	1	0.32	8.1
Chittagong	N. 22 21	E. 91 50	6.15 p.m.	87	26	29.93	760.1	30.02	762.5	68.2	20.1	67	1	6	14	4	.....	.....	.....	.....	.....	.....	.....	1	0	0
Sibsagar	N. 26 59	E. 94 40	6.27 p.m.	333	102	29.70	754.4	30 05	763.4	60.6	15.9	85	.....	.....	.....	.....	6	.....	3	3	19	.....	.....	3	1.77	45.0
Zanzibar *d*	S. 6 10	E. 39 11	2.45 p.m.	23	7	29.79	756.8	29.82	757.3	85.2	29.6	66	5	.....	1	.....	2	1	5	13	.....	.....	.....	5	2.49	63.2
Jeypore	N. 26 55	E. 75 50	5.05 p.m.	1431	436	28.52	724.5	30.01	762.3	66.3	19.1	56	1	12	3	4	1	7	.....	3	.....	.....	.....	4	1.22	31.0
Bellary	N. 15 09	E. 76 57	5.16 p.m.	1455	444	28.44	722.4	.....	.....	80.7	27.1	39	.....	1	1	.....	.....	13	16	.....	.....	.....	.....	2	0	0
Trichinopoly	N. 10 50	E. 78 44	5.23 p.m.	275	84	29.68	753.9	.....	.....	81.8	27.7	56	.....	.....	.....	.....	.....	1	13	12	5	.....	.....	5	0	0

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea.		Result of Simultaneous Observations for January, 1883.																			Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity	Wind.														
						Actual.		Reduced.					Directions.									Total Movement					
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	N E	O	Miles	Kil.	0–10	Inch.	Mill.
ITALIAN.	o /	o /																									
Udine	N. 46 04	E. 13 13	1.01 p.m.	381	116	29.66	753.4	30.09	764.2	40.8	4 9	59	2	1	1	.....	1	S	3	6	9	.....	.....	6	2.84	72.2
Milan	N. 45 28	E. 9 11	0.45 p.m.	482	147	29.56	750 7	30.10	764.5	38.1	3.4	79	2	3	10	6	1	4	3	2	.....	.....	.....	7	3.83	97.2
Padua	N. 45 24	E. 11 53	0.56 p.m.	102	31	29.96	761.0	30.08	763.9	39.7	4.3	71	11	4	.....	2	.....	3	2	9	.....	.....	.....	6	3.09	78.5
Moncalieri	N. 45 00	E. 7 41	0.39 p.m.	846	258	29.15	740.5	30.10	764.6	37.2	2.9	82	1	12	.....	.....	.....	.....	6	12	.....	.....	.....	6	4.63	117.6
Genoa	N. 44 24	E. 8 55	0.44 p.m.	157	48	29.82	757.5	30.02	762.5	46.6	8.1	59	10	2	.....	1	1	5	.....	10	2	.....	.....	5	8.70	220.9
Mondovi	N. 44 23	E. 7 48	0.39 p.m.	1824	556	28.11	714.1	30.11	764.9	36.9	2.7	67	1	1	24	1	.....	2	2	.....	.....	.....	.....	5	3.86	98.1
Pesaro	N. 43 55	E. 12 53	1.00 p.m.	46	14	29.95	760.8	30.00	762.1	41.5	5.3	84	8	7	4	3	.....	2	2	5	.....	.....	.....	7	2.03	51.6
Florence	N. 43 46	E. 11 15	0.53 p.m.	240	73	29.75	755.7	30.02	762.4	45.5	7.5	68	2	2	4	3	.....	2	3	15	.....	.....	.....	6	2.61	66.2
Leghorn	N. 43 33	E. 10 18	0.49 p.m	79	24	29.87	758.7	29.96	760 9	48.7	9.3	68	3	1	2	2	1	....	9	13	.....	.....	.....	6	3.19	81.1
Rome	N. 41 54	E. 12 29	0.58 p.m.	164	50	29.79	756.0	29.97	761.2	51.4	10.8	59	17	2	1	3	5	1	.....	1	1	.....	.....	6	3.89	98.8
Lecce	N. 40 22	E. 18 12	1.21 p.m.	236	72	29.72	754.9	29.98	761.4	51.8	11.0	68	6	5	4	.....	4	6	.....	6	.....	.....	.....	6	3.41	87.5
Cosenza	N. 39 19	E. 16 17	1.13 p.m.	840	256	29.09	738.8	30.00	761.9	49.8	9.9	74	4	3	8	6	4	4	2	.....	.....	.....	.....	6	2.71	68.8
Cagliari	N. 39 30	E. 9 00	0.45 p.m.	180	55	29.76	755.8	29.96	760.9	54.9	12.7	69	1	23	1	.....	1	2	2	.....	1	.....	.....	5	0.25	6.3
Palermo	N. 38 07	E. 13 21	1.02 p.m.	236	72	29.71	754.7	29.97	761.1	56.3	13.5	60	3	3	5	6	.....	.....	.....	9	5	.....	.....	8	5.48	139.1
Syracuse	N. 37 03	E. 15 15	1.09 p.m.	72	22	29.90	759.4	29.94	760.5	55.9	13.3	70	3	2	1	7	5	1	2	10	.....	.....	.....	8	3.08	78.2
Sub-Series.																											
Naples	N. 40 52	E. 14 15	1.05 p.m.	489	149	29 45	748.0	29.98	761 5	51.4	10.8	65.9	3	3	3	4	3	2	1	12	.....	.....	.....	6	2.55	64.8
Stelvio	N. 46 32	E. 10 25	0.50 p.m.	8343	2543	22.01	559 1	.....	.....	19.0	—7.2	72.3	.....	1	2	4	.....	7	3	14	.....	.....	.....	5	3.04	77.0
Valdobbia	N. 45 47	E. 7 51	0.40 p.m.	8360	2548	22.09	559.8	.....	.....	22.6	—5.2	57.0	7	3	1	.....	.....	4	9	7	.....	.....	.....	5	14.49	368.0
JAPANESE.																											
Akita	N. 39 42	E.140 07	9.28 p.m.	32	10	29.98	761.5	30.01	762.2	28.8	—1.8	87.0	2	10	3	.....	.....	.....	.....	16	.....	.....	.....	9	5.66	143.8
Awomori	N. 40 51	E.140 45	9.31 p.m.	32	10	29.92	759 9	29.96	760.9	26.0	—3.3	81.6	1	5	8	8	6	2	.....	.....	1	8810	14338	8	2.52	63.9
Hakodate	N. 41 47	E.140 44	9.31 p.m.	10	3	29.91	759.7	29.92	760.0	26.2	—3.2	88.8	11	7	9	1	.....	.....	3	.....	.....	1160	1866	6	1.55	39.5
Hamamatsu	N. 34 43	E.137 43	9.19 p.m.	26	8	30.04	763.0	30.07	763.7	38.8	3.8	70.4	.....	5	9	.....	.....	1	.....	.....	16	.....	.....	3	3.98	101.2
Kagoshima	N. 31 35	E.130 33	8.50 p.m.	14	4	30.19	766.9	30.21	767.2	42.0	5.6	80.1	22	4	.....	.....	.....	.....	1	1	3	.....	.....	4	3.07	93.3
Kioto	N. 35 01	E.135 46	9.11 p.m.	162	49	29.95	762.8	30.13	765.4	34.9	1.6	83.5	4	10	12	1	1	1	.....	2	.....	24389	37799	6	2.69	67.9
Kochi	N. 33 33	E.133 34	9.02 p.m.	20	6	30.12	765.1	30.14	765.6	41.2	5.1	74.2	3	10	8	.....	.....	.....	5	5	.....	5491	8836	3	2.72	69.1
Misaoka	N. 31 56	E.131 26	8.54 p.m.	26	8	30.16	766.1	30.19	766.8	42.8	6.0	74.9	.....	.....	15	.....	.....	.....	.....	1	15	.....	.....	3	4.10	104.1
Nagasaki	N. 32 44	E.129 52	8.47 p.m.	189	58	30.00	762.0	30.21	767.4	41.4	5.2	77.3	0	4	.....	2	.....	2	.....	6	11	2990	4811	6	2.22	56.3
Niigata	N. 37 55	E.139 03	9.24 p.m.	32	10	30.02	762.5	30.06	763.4	34.1	1.1	80.6	5	.....	12	7	1	4	2	.....	.....	9244	14870	9	4.88	123.8
Nobiru	N. 38 23	E.141 12	9.32 p.m	15	5	29.91?	761.2?	29.99	761.6	30.2	—1.0	83.5	12	14	1	.....	1	.....	1	2	.....	9794	15761	6	3.32	84.2
Numazu	N. 35 06	E.138 51	9.23 p.m.	32	10	29.98	761.4	30.01	762.3	39.7	4.3	69.2	1	1	.....	.....	1	4	.....	12	2	10	.....	2	2.35	59.7
Osaka	N. 34 42	E.135 30	9.10 p.m	13	4	30.12	765 2	30.14	765.6	30.7	2.6	78.8	11	3	5	2	.....	.....	.....	2	8	.....	.....	6	2.32	58.8
Sakai	N. 35 01	E.133 31	9 01 p.m.	10	3	30.15	765.7	30.16	766.0	37.7	3.3	81.0	1	.....	18	2	1	.....	.....	3	3	6062	11043	6	7.51	190.8
Supporo	N. 43 04	E.141 23	9.33 p.m.	60	18	.....	.....	.....	.....	20.8	—6.2	84.2	1	8	3	2	1	8	.....	.....	8	5902	9498	8	1.77	44.9
Tokei	N. 35 41	E.139 46	9.27 p.m.	69	21	29.95	760.7	30.03	762.7	30.2	2.3	67	16	6	3	.....	2	2	1	.....	1	.....	.....	3	2.84	72.2
Wakayama	N. 34 14	E.135 09	9.09 p.m.	48	15	30.09	764.2	30.14	765.6	38.9	3.9	74.8	6	8	2	.....	.....	.....	1	11	3	4647	7478	6	3.24	82.3
MAURITIUS.																											
Mauritius	S. 20 06	E. 57 33	3.58 p.m.	181	55	29.70	754.4	29.89	759 2	81.3	27.4	68.8	3	.....	.....	.....	.....	.....	1	9	18	.....	.....	8	7.44	189.0
MEXICAN.																											
Altata *g*	N. 24 40	W.107 55	4 56 a.m.	?	?	.....	.....	.....	.....	52.9	11.6	91.4	5*h*	1*i*	.....	1	1	.....	3	2	.....	.....	.....	.....	.....	.....
Guanajuato	N. 21 01	W.100 48	5.24 a.m.	6759	2060	23.71	602.3	29.93	760.3	50.2	10.1	83	1	2	1	7	2	2	.....	3	13	.....	.....	4	0.16	4.2
Leon	N. 21 07	W.101 35	5.22 a.m.	5901	1799	24.38	619.2	30.22	767.6	46.6	8.1	86	7	12	2	4	.....	.....	.....	1	5	.....	.....	5	0.02	0.4
Mazatlan	N. 23 11	W.106 17	5.03 a.m.	249	76	29.79	756.5	30.05	763.2	63.1	17.3	78	3	20	.....	.....	.....	3	.....	5	.....	.....	.....	5	0.04	1.0
Mexico	N. 19 20	W. 99 00	5.32 a.m.	7490	2283	23.14	587.8	30.33	770.4	45.0	7.2	76	.....	3	.....	.....	.....	.....	.....	.....	28	.....	.....	4	0.15	3.7
Morelia	N. 19 42	W.101 06	5.22 a.m.	6247	1940	24.29	617.0	30.17	766.3	46.0	7.8	70	1	.....	.....	1	6	14	9	.....	.....	.....	.....	2	imp.	imp.
Pabellon	N. 22 04	W.102 04	5.20 a.m.	6312	1924	23.98	609.1	30.11	764.9	48.4	9.1	80	3	.....	2	4	.....	.....	.....	2	5	.....	.....	1	0.08	2.0
Puebla	N. 19 02	W. 98 03	5.30 a.m.	7113	2168	23.44	594.9	30.34	770.5	43.4	6.3	69	.....	1	.....	.....	.....	.....	.....	1	29	.....	.....	2	0	0
Zacatecas	N. 22 44	W.102 26	5.18 a.m.	8100	2469	22.57?	574.3?	30.27?	769.9?	44.1	6.7	71	2	.....	.....	.....	23	.....	1	1	4	.....	.....	6	0.45	11.3
NETHERLANDS.																											
Flushing	N. 51 24	E. 3 35	0.22 p.m.	0	0	30.00	761.9	30.00	761.9	40.6	4.8	.....	.....	.....	2	7	5	7	6	4	.....	.....	.....	.....	2.39	60.6
Groningen	N. 53 12	E. 6 34	0.34 p.m.	?	?	29.93	760.3	29.99	761.7	36.0	2.2	.....	.....	4	.....	7	7	4	5	4	.....	.....	.....	.....	2.10	53.2
Hellevoetsluis	N. 51 49	E. 4 08	0.25 p.m.	0	0	29.99	761.7	29.99	761.7	39.0	3.9	85.4	.....	.....	3	7	5	3	7	5	1	.....	.....	.....	1.79	45.4
Utrecht	N. 52 05	E. 5 07	0.29 p.m.	43	13	29.97	761.1	30.01	762.3	39.0	3.9	79.5	.....	.....	4	5	9	4	5	4	.....	.....	.....	5	1.51	38.3
Sub-Series.																											
Batavia	S. 6 11	E.106 48	7 15 p. m.	?	?	29.86	758.5	.....	.....	78.3	25.7	86.4	10	14	3	2	2	.....	.....	.....	.....	.....	.....	7	25.72	653.0
NORWEGIAN.																											
Bergen	N. 60 24	E. 5 20	0.29 p.m.	56	17	29.75	755.7	29.82	757.3	34.9	1.6	78.0	1	.....	2	2	13	10	1	....	2	.....	.....	6	5.98	151.8
Brono	N. 65 28	E. 12 14	0.57 p.m.	34	10	29.67	753.7	29.69	751.0	33.1	0.6	70.7	1	3	.....	5	7	4	.....	.....	11	.....	.....	7	2.86	72.7
Christiania	N. 59 55	E. 10 45	0.51 p.m.	134	41	29.80	757.0	29.96	760.9	24.4	—4.2	89.8	1	1	2	5	4	.....	9	8	1	.....	.....	8	0.91	23.0
Gjesvær	N. 71 07	E. 25 22	1.49 p.m.	23	7	29.53	750.1	29.56	750.7	29.3	—1.5	.....	1	3	7	8	4	4	1	1	2	.....	.....	.....	.....	.....
Lodingen	N. 68 24	E. 16 01	1.12 p.m.	43	13	29.63	752.7	29.68	753.9	30.2	—1.0	74.7	4	1	3	6	4	4	.....	2	7	.....	.....	7	4.54	115.2
PORTUGUESE.																											
Angra	N. 38 39	W. 27 14	10.19 a.m.	144	44	29.96	761.0	30.12	765.0	57.9	14.4	80.9	2	12	9	3	2	2	...	.....	1	.....	.....	5	5.31	134.9
Campo Major	N. 39 02	W. 6 59	11.40 a.m.	945	288	29.15	740.5	30.17	766.4	52.7	11.5	75.6	3	.....	7	5	4	.....	4	6	2	.....	.....	5	4.01	117.0
Funchal	N. 32 38	W. 16 55	11.00 a.m.	82	25	30.10	766.0	30.24	768.2	65.3	18.5	65.5	1	1	3	11	.....	10	5	.....	.....	.....	.....	5	1.26	31.9
Lisbon	N. 38 42	W. 9 08	11.31 a.m.	335	102	29.84	757.8	30.20	767.1	53.2	11.8	74.1	5	4	4	3	4	.....	3	8	.....	.....	.....	5	5.56	141.1
Ponta Delgada	N. 37 45	W. 25 41	10.25 a.m.	66	20	30.09	764.3	30.16	766.1	60.6	15.9	73.9	3	7	6	3	6	.....	.....	2	4	.....	.....	5	5.83	148.1
St. Paul de Loanda	S. 8 49	E. 13 07	1.00 p.m.	193	59	29.71	754.0	29.91	759.7	79.7	26.5	84.5	3	3	18	7	.....	.....	.....	.....	.....	.....	.....	6	0.39	10.0
Serra da Estrella	N. 40 25	W. 7 35	11.37 a.m.	4728	1441	25.30	642.5	30.14	765.5	38.3	3.5	74.7	.....	8	5	2	3	6	3	1	3	.....	.....	7	18.49	469.6
RUSSIAN																											
Akmolinski	N. 51 12	E. 71 23	4.54 p.m.	843?	306?	29.06	738.0	30.26	768.7	—3.1	—19.5	83.0	.....	.....	2	15	7	1	1	1	3	.....	.....	6	0.06	1.5
Archangel	N. 64 33	E. 40 32	2.50 p.m.	16	5	29.85	758.3	29.87	758.7	6.4	—14.2	85.7	4	4	3	7	6	3	4	.....	.....	.....	.....	9	0.86	21.9
Ashuruda	N. 36 54	E. 53 55	3.44 p.m.	79	24	30.27	768.8	30.17	766.4	44.1	6.7	81.7	3	4	4	1	.....	2	9	8	.....	.....	.....	6	0.10	2.5
Astrakhan	N. 46 21	E. 48 02	3.20 p.m.	68	21	30.34	770.6	30.20	768.5	17.8	—7.8	72.9	2	7	6	3	2	4	4	2	1	.....	.....	5	0.21	5.3
Baku	N. 40 21	E. 49 51	3.28 p.m.	39	12	30.24	768.0	30.19	766.8	36.9	2.7	79.9	7	3	.....	8	5	2	1	1	4	.....	.....	6	0.44	11.2
Barnaul	N. 53 20	E. 83 47	5.43 p.m.	459?	140?	29.82	757.3	30.38	771.6	1.9	—16.7	78.9	.....	1	1	17	.....	.....	1	1	10	.....	.....	6	1.41	35.8
Bielosersk	N. 60 02	E. 37 47	2.39 p.m.	430?	131?	29.52	749.8	30.04	763.0	5.2	—14.9	88.0	2	5	3	6	3	6	1	1	4	.....	.....	7	0.50	12.6
Dorpat	N. 58 23	E. 26 43	1.55 p.m.	223	68	29.83	757.6	30.09	764.3	16.0	—8.9	93.8	5	2	4	5	9	1	1	2	2	.....	.....	7	0.91	23.1
Ekaterinburg	N. 56 49	E. 60 38	4.10 p.m.	894?	272?	28.98	736.0	30.04	763.1	0.5	—17.5	70.1	.....	2	11	9	3	1	1	1	3	.....	.....	7	0.47	12.0
Elissawetgrad	N. 48 31	E. 32 17	2.17 p.m.	417?	127?	29.72	755.0	30.21	767.4	18.5	—7.5	81.5	1	6	2	2	2	4	5	3	6	.....	.....	6	0.37	9.4
Irkutsk	N. 52 16	E.104 16	7.05 p.m.	1536	468	28.72	729.4	30.58	776.7	—3.6	—19.8	86.1	1	1	2	.....	.....	1	5	.....	1	21	.....	4	0.39	9.9
Kasan	N. 55 47	E. 49 08	3.24 p.m.	249	76	29.76	755.9	30.06	763.5	1.6	—16.9	75.6	2	1	7	5	7	7	1	.....	1	.....	.....	7	0.07	17.0
Kem	N. 64 57	E. 34 39	3.26 p.m.	43	13	29.78	756.5	29.84	757.8	13.1	—10.5	88.7	1	2	8	7	5	.....	1	.....	7	.....	.....	8	0.42	10.8
Kertch	N. 45 21	E. 36 29	2.34 p.m.	18?	6?	30.14	765.5	30.16	766.0	24.4	—4.2	87.2	1	8	.....	.....	.....	1	2	3	16	.....	.....	2	0.22	5.6
Kieff	N. 50 27	E. 30 30	2.10 p.m.	600	183	29.46	748.3	30.15	765.8	16.9	—8.3	83.4	5	5	4	4	3	6	2	2	.....	.....	.....	7	1.22	31.1
Kostov	N. 52 53	E. 40 31	2.50 p.m.	466?	142?	29.52	749.8	30.11	764.7	4.5	—15.3	87.5	3	5	5	6	4	4	1	1	2	.....	.....	7	1.10	27.9
Libau	N. 56 31	E. 21 01	1.32 p.m.	20	6	30.04	763.1	30.07	763.7	26.8	—2.9	81.3	1	4	2	3	6	7	4	3	1	.....	.....	4	0.91	23.2
Lugan	N. 48 35	E. 39 20	2.45 p.m.	188?	57?	29.93	760.2	30.13	765.4	13.5	—10.3	71.5	1	4	6	7	3	3	4	3	.....	.....	.....	6	0.82	20.7
Moscow	N. 55 46	E. 37 40	2.39 p.m.	448	136	29.54	750.4	30.08	764.0	0.4	—14.2	80.7	3	8	6	1	4	2	.....	2	5	.....	.....	6	0.28	7.0
Nikolaiev	N. 46 58	E. 31 58	2.10 p.m.	62	19	30.13	765.4	30.21	767.3	21.4	—5.9	83.4	2	3	3	3	4	.....	4	6	6	.....	.....	5	0.76	19.2
Nikolatievsk	N. 53 08	E.140 45	9.31 p.m.	59	18	29.92	759.9	30.00	762.1	—12.6	—24.8	69.0	.....	.....	9	1	.....	.....	.....	.....	22	.....	.....	5	0.22	5.6
Pekin	N. 39 57	E.116 28	7.54 p.m.	123?	38?	30.20	768.6	30.40	772.2	23.7	—4.6	49.2	.....	7	.....	.....	1	.....	3	.....	20	.....	.....	2	0.12	3.1
Petrozavodsk	N. 61 47	E. 34 23	2.26 p.m.	180?	55?	29.73	755.1	29.94	760.6	10.0	—12.2	83.3	4	10	4	8	4	.....	1	.....	.....	.....	.....	7	1.13	28.7
Pinsk	N. 52 07	E. 26 06	1.52 p.m.	459?	140?	29.61	752.2	30.15	765.7	23.7	—4.6	77.5	3	8	3	3	3	8	2	1	.....	.....	.....	7	0.62	15.8
Poti	N. 42 09	E. 41 37	2.54 p.m.	466?	142?	30.08	764.0	30.10	764.5	41.0	5.0	72.6	.....	.....	.....	3	1	.....	2	23	.....	2	.....	6	0.08	2.0
St. Petersburg	N. 59 56	E. 30 16	2.09 p.m.	20	6	30.02	762.5	30.04	762.9	10.6	—11.9	85.2	2	6	3	6	5	4	2	2	1	.....	.....	7	0.75	19.0
Sevastopol	N. 44 37	E. 33 31	2.22 p.m.	423?	42?	29.90	759.4	30.06	763.6	34.3	1.3	68.5	4	1	3	5	1	2	1	11	3	.....	.....	7	1.30	33.1
Semipalatinsk	N. 50 24	E. 80 13	5.29 p.m.	607?	185?	29.73	755.1	30.46	773.6	3.2	—16.0	81.4	.....	3	7	.....	5	3	12	.....	1	.....	.....	6	0.08	2.0
Staroi Bykhov	N. 53 31	E. 30 10	2.09 p.m.	423?	129?	29.69	754.0	30.19	766.8	15.6	—9.1	76.8	3	3	.....	2	1	10	1	5	.....	.....	.....	7	0.94	23.8
Tiflis	N. 41 43	E. 44 47	3.07 p.m.	1343	409	28.74	730.0	30.23	767.8	34.3	1.3	56.0	3	8	.....	.....	1	6	5	.....	8	.....	.....	5	0 55	13.9
Tomsk	N. 56 30	E. 84 58	5.48 p.m.	256?	78?	29.92	760.1	30.24	768.0	—0.2	—17.9	79.3	1	1	1	1	15	5	1	.....	4	.....	.....	6	.....	.....
Viatka	N. 58 36	E. 49 41	3.27 p.m.	581?	177?	29.30	744.2	30.00	762.0	—1.1	—18.4	.....	3	4	5	1	6	2	3	2	5	.....	.....	7	0.47	11.9
Warsaw	N. 52 13	E. 21 02	1.32 p.m.	392	119	29.67	753.6	30.12	765 0	27.1	—2.7	78.0	5	3	2	6	9	3	2	1	.....	.....	.....	6	0.92	23.5
Wilna	N. 54 41	E. 25 18	1.49 p.m.	388	118	29.68	753.9	30.13	765.4	21.7	—5.7	84.5	2	3	3	4	7	6	.....	3	3	.....	.....	8	0.21	5.3
Yeniseisk	N. 58 27	E. 92 06	6.16 p.m.	262?	80?	30.04	762.9	30.30	771.2	—4.7	—20.4	84.2	.....	1	9	3	2	3	8	1	4	.....	.....	5	0.61	15.5

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea.		Result of Simultaneous Observations for January, 1883.																		Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.													
						Actual.		Reduced.					Directions.									Total Movement.				
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0–10	Inch.	Mill.
Scottish.	° ′	° ′																								
Monach Light H.	N. 57 31	W. 7 42	11.37 a.m.	150	46	.....	.....	29.58	751.3	44.5	6.9	92.0	.....	3	4	4	11	6	3	.....	.....	.....	.....	10	5.70	144.8
North'Uust	N. 60 51	W. 0 53	0.04 p.m.	230	70	.....	.....	29.66	753.4	.....	.....	.....	1	3	5	4	15	2	1	.....	.....	.....	.....	9	.....	.....
Spanish.																										
Barcelona	N. 41 23	E. 2 11	0.16 p.m.	98	30	29.92	759.9	30.02	762.6	53.4	11.9	69	1	4	6	10	3	2	2	3	.....	3227	5193	3	2.26	57.5
Bilbao	N. 43 15	W. 2 59	11.56 a.m.	52	16	30.04	763.1	30.10	764.6	54.9	12.7	67	1	8	1	1	4	15	.....	.....	1	2426	3905	5	2.02	51.2
Burgos	N. 42 20	W. 3 46	11.53 a.m.	2821	860	27.10	688.4	30.16	766.1	41.9	5.5	77	12	.....	5	9	5	.....	.....	.....	.....	4969	7998	5	2.49	63.2
Madrid	N. 40 25	W. 3 42	11.53 a.m.	2152	656	27.87	708.7	30.15	765.8	46.6	8.1	71.4	1	5	2	7	.....	2	2	6	6	4889	7868	4	2.37	60.2
Murcia	N. 37 59	W. 1 10	0.03 p.m.	141	43	29.94	760.4	30.09	764.2	51.6	10.9	68.0	.....	11	2	11	2	1	.....	2	2	1506	2422	4	1.32	33.5
Oviedo	N. 43 23	W. 5 49	11.45 a.m.	800	244	29.17	741.0	30.05	763.3	47.8	8.8	76	.....	1	1	3	10	7	9	.....	.....	3620	5826	7	1.87	47.6
Santiago	N. 42 53	W. 8 28	11.34 a.m.	863	263	29.12	739.6	30.02	762.6	51.4	10.8	84.1	.....	1	3	6	8	3	1	.....	9	6742	10850	7	10.58	268.6
Sub-Series.																										
Manilla	N. 14 35	E. 120 56	8.12 p.m.	54	16	29.91	759.8	29.97	761.2	76.6	24.8	76.3	13	1	.....	.....	.....	1	5	9	2	3287?	6087?	3	7.59	192.9
San Fernando	N. 36 28	W. 6 13	11.43 a.m.	95	29	30.10	764.4	30.20	767.0	58.3	14.6	70	5	6	5	1	3	2	4	1	4	.....	.....	5	7.78	197.8
San Juan de Porto Rico	N. 18 30	W. 66 10	7.44 a.m.	82	25	30.04	763.0	30.13	765.3	76.1	24.5	86	1	.....	.....	.....	1	3	9	2	15	.....	.....	4	6.06	153.8
Swedish.																										
Haparanda	N. 65 47	E. 24 03	1.44 p.m.	29	9	29.81	757.1	29.85	758.1	12.0	—11.1	96	6	2	.....	9	7	4	.....	.....	3	.....	.....	5	1.36	34.6
Umea	N. 63 50	E. 20 17	1.29 p.m.	39	12	29.83	757.7	29.88	759.0	20.1	—6.6	90	5	5	3	11	1	.....	1	1	4	.....	.....	7	2.23	56.6
Hernosand	N. 62 32	E. 17 57	1.20 p.m.	46	14	29.84	758.0	29.89	759.3	22.1	—5.5	86	2	.....	.....	6	2	2	.....	.....	19	.....	.....	5	0.59	15.0
Stockholm	N. 59 20	E. 18 04	1.20 p.m.	144	44	29.80	756.8	29.97	761.3	27.9	—2.3	84	4	3	5	8	7	3	1	.....	.....	.....	.....	8	0.42	10.7
Wisby	N. 57 39	E. 18 19	1.21 p.m.	52	16	29.93	760.3	29.99	761.8	31.6	—0.2	87	4	5	2	7	7	3	3	.....	.....	.....	.....	8	1.34	34.1
Sub-Series.																										
Upsala	N. 59 51	E. 17 37	1.19 p.m.	79	24	29.87	758.8	29.96	761.0	25.5	—3.6	93.0	1	7	1	9	7	6	.....	.....	.....	.....	.....	7	0.86	21.9
Swiss.																										
Geneva	N. 46 12	E. 6 08	0.33 p.m.	1338	408	28.63	727.1	30.10	764.6	38.5	3.6	77.9	8	2	.....	9	6	3	1	2	.....	.....	.....	8	2.28	58.0
Turkish.																										
Constantinople	N 41 00	E. 28 59	2.04 p.m.	230	70	.....	.....	30.06	763.6	41.7	5.4	72	11	3	.....	1	.....	2	1	13	.....	.....	.....	9	2.60	66.1
Valona	N. 40 27	E. 19 27	1.26 p.m.	105	32	.....	.....	30.00	762.0	52.2	11.2	.....	4	4	2	1	.....	6	3	11	.....	.....	.....	6	4.21	107.0
Sub-Series.																										
Beirut	N. 33 54	E. 35 28	2.30 p.m.	111	34	.....	.....	29.99	761.8	60.8	16.0	71.6	7	.....	2	15	3	...	1	1	2	.....	.....	8	12.73	323.3
Samakov *a*	N. 42 12	E. 23 45	1.42 p.m.	?	?	26.71	678.4	.....	.....	31.1	—0.5	73.6	1	7	4	.....	2	4	1	3	8	.....	.....	6	0.50	12.7
United States.																										
Albany	N. 42 39	W. 73 45	7.13 a.m.	75	23	30.12	765.0	30.21	767.3	20.7	—6.3	71.4	9	5	5	3	6	.....	2	1	.....	4798	7722	8	2.43	61.7
Alpena	N. 45 05	W. 83 30	6.34 a.m.	609	185	29.38	746.2	30.09	764.3	10.8	—11.8	76.0	3	3	15	2	3	2	3	.....	.....	8143	13105	7	2.19	55.6
Apache, Fort	N. 33 48	W. 109 57	4.48 a.m.	5050	1539	25.08	637.0	30.20	767.1	19.9	—6.7	71.1	.....	.....	.....	.....	1	.....	2	0	22	.....	.....	3	0.85	21.6
Assiniaboine, Ft.	N. 48 32	W. 109 42	4.49 a.m.	2710	826	27.17	690.1	30.21	767.3	3.0	—16.1	63.5	1	1	6	11	.....	.....	1	7	4	8216	13222	6	2.47	62.7
Atlanta	N. 33 45	W. 84 23	6.31 a.m.	1131	345	29.00	736.6	30.23	767.8	38.4	3.6	84.8	.....	11	5	2	1	4	4	3	1	6777	10906	6	15.82	401.8
Atlantic City	N. 39 22	W. 74 25	7.10 a.m.	13	4	30.18	766.6	30.19	766.8	28.0	—2.2	77.7	9	7	4	2	1	2	.....	4	2	7242	11655	7	5.43	137.9
Augusta	N. 33 28	W. 81 54	6.40 a.m.	183	56	30.04	763.0	30.24	768.1	44.4	6.9	81.7	3	7	3	.....	.....	1	2	2	13	2046	3293	7	7.00	177.8
Baltimore	N. 39 18	W. 76 37	7.02 a.m.	45	14	30.19	766.8	30.24	768.1	30.2	—1.0	75.5	7	2	7	.....	1	1	3	5	5	3471	5580	8	3.16	80.3
Barnegat	N. 39 46	W. 74 06	7.12 a.m.	20	6	30.17	766.3	30.19	766.8	28.8	—1.8	83.6	4	8	4	4	.....	1	5	5	.....	11705	18837	7	3.91	99.3
Behring Id	N. 55 12	E. 165 55	11.12 p.m.	20	6	29.38	746.2	29.40	746.7	25.0	—3.9	.....	10	2	.....	2	2	2	3	10	.....	11580	18630	8	0.61	15.5
Bennett, Fort	N. 44 43	W. 100 39	5.26 a.m.	1510	457	28.53	724.6	30.27	768.8	—1.6	—18.7	80.3	1	8	.....	1	.....	5	.....	4	12	5766	9279	6	0.37	9.4
Benton, Fort	N. 47 50	W. 110 40	4.45 a.m.	2700	823	27.21	691.1	30.19	766.8	8.4	—13.1	69.8	2	.....	.....	7	.....	1	...	7	14	5377	8653	6	0.75	19.0
Billings *a*	N. 45 49	W. 108 30	4.54 a.m.	3115?	949?	26.76	679.7	.....	.....	9.8	—12.3	71.6	1	2	10	5	2	.....	5	3	2	7712	12411	7	0.63	16.0
Bismarck	N. 46 47	W. 100 38	5.26 a.m.	1694	516	28.24	717.3	30.23	767.8	—6.2	—21.2	87.5	6	8	2	.....	1	4	4	1	5	7089	11408	5	0.25	6.3
Block Id	N. 41 10	W. 71 36	7.22 a.m.	27	8	30.16	766.1	30.19	766.8	28.1	—2.2	77.5	11	3	2	3	1	2	1	7	1	11815	19014	6	3.95	100.3
Boise City	N. 43 37	W. 116 08	4.24 a.m.	2750	838	27.36	694.9	30.29	769.4	12.6	—10.8	90.5	8	8	4	2	.....	6	.....	1	2	2270	3653	5	3.77	95.8
Boston	N. 42 21	W. 71 04	7.24 a.m.	142	43	30.03	762.7	30.20	767.1	22.8	—5.1	72.4	2	13	9	2	1	1	.....	2	1	7393	11898	6	3.59	91.2
Brownsville	N. 25 53	W. 97 26	5.38 a.m.	43	13	30.08	764.0	30.13	765.3	50.6	10.3	88.6	14	.....	.....	1	10	.....	.....	1	5	5913	9513	5	1.22	31.0
Buffalo	N. 42 53	W. 78 53	6.52 a.m.	696	212	29.35	745.5	30.15	765.8	18.9	—7.3	84.7	1	1	1	11	7	1	...	9	.....	10261	16513	9	1.69	42.9
Buford, Fort *a*	N. 48 00	W. 103 56	5.12 a.m.	1900	579	28.02	711.7	30.28	769.1	—7.6	—22.0	80.4	1	4	7	.....	3	.....	6	2	5	5160	8304	5	1.98	50.3
Burlington	N. 44 29	W. 73 13	7.15 a.m.	268	82	29.87	758.7	30.18	766.6	12.6	—10.8	79.7	7	1	2	1	11	.....	4	4	1	7229	11033	9	0.93	23.6
Cairo	N. 37 00	W. 89 10	6.11 a.m.	377	115	29.81	757.2	30.23	767.8	29.4	—1.4	84.0	9	2	2	4	3	3	3	4	1	7052	11349	7	2.74	69.6
Campc	N. 32 37	W. 116 25	4.22 a.m.	2500	762	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cape Henry	N. 36 56	W. 76 00	7.04 a.m.	16	5	30.19	766.8	30.21	767.3	35.2	1.8	86.6	11	5	3	4	3	1	1	2	1	8614	13863	6	5.34	135.6
Cape May	N. 38 56	W. 74 58	7.08 a.m.	27	8	30.17	766.3	30.20	767.1	31.7	—0.2	78.5	10	7	3	3	3	1	1	3	.....	10886	17519	6	5.00	127.0
Cape Mendocino *k*	N. 40 26	W. 124 24	3.50 a.m.	637	194	29.54	750.3	30.24	768.1	43.0	6.1	81.7	2	11	.....	.....	.....	.....	6	.....	1	10077	16217	3	2.91	73.9
Cedar Keys	N. 29 08	W. 83 02	6.36 a.m.	22	7	30.17	766.3	30.19	766.8	55.5	13.1	83.5	3	2	1	.....	8	3	4	10	.....	6693	10771	4	5.66	143.8
Champaign	N. 40 08	W. 88 14	6.15 a.m.	767	234	29.30	744.2	30.17	766.3	16.1	—8.8	65.5	3	7	4	5	6	3	.....	3	.....	9929	15979	8	1.08	27.4
Charleston	N. 32 47	W. 79 56	6.48 a.m.	52	16	30.14	765.5	30.20	767.1	48.1	8.9	87.4	4	3	2	6	.....	.....	2	7	6	4929	7932	4	4.06	103.1
Charlotte	N. 35 13	W. 80 51	6.44 a.m.	808	246	29.30	744.2	30.19	766.8	35.8	2.1	87.1	3	5	.....	6	1	1	3	12	.....	3546	5707	5	8.87	225.3
Chattanooga	N. 35 04	W. 85 15	6.27 a.m.	783	239	29.37	746.0	30.23	767.8	37.0	2.8	79.1	1	8	4	3	4	3	1	6	1	4654	7490	7	9.31	236.5
Cheyenne	N. 41 08	W. 104 48	5.09 a.m.	6089	1856	23.85	605.8	30.12	765.0	16.3	—8.7	48.0	2	16	9	2	1	.....	.....	.....	.....	11183	17997	3	0.88	22.4
Chicago *a*	N. 41 52	W. 87 38	6.18 a.m.	661	201	29.39	746.5	30.14	765.5	14.6	—9.7	74.0	.....	4	8	7	3	6	1	1	.....	7140	11490	6	1.74	44.2
Chincoteague	N. 37 55	W. 75 23	7.06 a.m.	18	5	30.17	766.3	30.19	766.8	31.7	—0.2	87.4	7	4	3	2	3	1	1	10	.....	8344	13428	6	4.14	105.2
Cincinnati	N. 39 06	W. 84 30	5.30 a.m.	620	189	29.51	749.5	30.20	767.1	28.4	—2.6	84.7	9	4	3	4	4	1	5	.....	1	4660	7499	9	2.82	71.6
Cleveland	N. 41 30	W. 81 42	6.41 a.m.	690	210	29.38	746.2	30.16	766.1	19.4	—7.0	86.2	3	2	5	5	7	6	3	.....	.....	7581	12200	8	1.55	39.4
Coleman City *b*	N. 31 53	W. 99 18	5.31 a.m.	1709	521	28.33	719.6	30.21	767.3	30.7	—0.7	79.7	11	3	1	6	5	1	.....	.....	2	6380	10267	4	0.09	2.3
Columbus	N. 39 58	W. 83 00	6.36 a.m.	805	245	29.28	743.7	30.18	766.6	23.5	—4.7	76.2	5	3	6	4	3	2	3	5	.....	6465	10404	9	3.20	81.3
Concho, Fort	N. 31 25	W. 100 24	5.26 a.m.	1900	579	28.19	716.0	30.21	767.3	30.0	—1.1	73.3	7	1	2	5	1	.....	.....	1	14	5016	9038	5	0.18	4.6
Davenport	N. 41 30	W. 90 38	6.06 a.m.	615	187	29.47	748.5	30.18	766.6	11.0	—11.7	60.2	3	11	8	1	1	1	3	3	.....	6990	11249	5	1.16	29.5
Davis, Fort	N. 30 38	W. 103 56	5.12 a.m.	4940	1506	25.19	639.8	30.17	766.3	30.1	—1.1	73.6	2	.....	.....	5	1	1	.....	.....	22	3556	5713	2	0.02	0.5
Dayton	N. 46 19	W. 117 56	4.16 a.m.	1660	506	28.39	721.1	30.20	767.1	22.8	—5.1	83.7	4	1	2	11	6	.....	.....	5	2	4217	6786	8	5.48	139.2
Deadwood	N. 44 23	W. 103 43	5.13 a.m.	4600	1402	25.21	640.3	30.15	765.8	10.9	—11.7	88.2	1	1	5	9	.....	1	3	9	2	2994	4818	5	0.74	18.8
Del. Breakwater	N. 38 48	W. 75 10	7.07 a.m.	20	6	30.18	766.6	30.20	767.1	29.9	—1.2	86.1	10	6	1	8	2	1	...	3	.....	11737	18888	7	3.25	82.5
Denison	N. 33 48	W. 96 32	5.42 a.m.	767	234	29.37	746.0	30.21	767.3	30.3	—0.9	84.3	11	3	.....	.....	5	4	1	3	4	5428	8735	5	1.19	30.2
Denver	N. 39 45	W. 105 00	5.08 a.m.	5294	1614	24.63	625.6	30.15	765.8	21.0	—5.8	65.0	1	3	4	3	11	3	.....	1	5	4941	7952	2	2.35	59.7
Des Moines	N. 41 35	W. 93 37	5.54 a.m.	849	259	29.26	743.2	30.23	767.8	3.9	—15.6	60.7	11	7	2	2	1	4	1	2	1	5277	8492	4	1.72	43.7
Detroit	N. 42 20	W. 83 03	6.36 a.m.	661	201	29.40	746.7	30.16	766.1	19.3	—7.1	85.2	4	4	3	11	2	1	4	2	.....	8750	14082	7	1.69	42.9
Dodge City *b*	N. 37 45	W. 100 00	5.28 a.m.	2512	766	27.46	697.5	30.21	767.3	14.2	—9.9	70.6	3	6	1	9	1	2	4	2	1	5791*h*	9320*h*	4	0.44	11.2
Dubuque	N. 42 30	W. 90 44	6.05 a.m.	665	203	29.41	747.0	30.18	766.6	5.4	—14.8	58.4	2	9	5	2	1	1	1	.....	10	3015	4852	5	1.59	40.4
Duluth	N. 46 48	W. 92 06	6.00 a.m.	644	184	29.33	745.0	30.14	765.5	—3.5	—19.7	84.6	.....	5	8	9	2	.....	1	2	4	6223	10015	5	1.12	28.4
Eagle Pass	N. 28 44	W. 100 29	5.26 a.m.	780	238	29.38	746.2	30.22	767.6	39.2	4.0	74.8	4	5	.....	3	.....	10	.....	1	8	3500	5633	5	0.01	0.3
Eagle Rock	N. 43 32	W. 111 55	4.40 a.m.	4650	1415	25.33	643.4	30.29	769.4	5.5	—14.7	80.2	14	.....	.....	.....	17	.....	.....	.....	.....	7725	12432	4	2.08	52.8
Eastport	N. 44 54	W. 66 59	7.40 a.m.	61	18	30.08	764.0	30.15	765.8	12.6	—10.8	76.7	5	11	8	1	2	2	.....	2	.....	9104	14651	6	3.20	81.3
Elliott, Fort	N. 35 30	W. 100 21	5.27 a.m.	2650	808	27.28	692.9	30.21	767.3	18.1	—7.7	57.1	4	8	1	2	6	4	.....	2	4	7181*e*	11550*e*	2	Inap.	Inap.
El Paso	N. 31 47	W. 106 30	5.02 a.m.	3760	1146	26.34	669.0	30.22	767.6	32.2	0.1	65.9	1	9	6	.....	2	3	.....	1	9	3967	6384	2	0.10	2.5
Erie	N. 42 07	W. 80 05	6.48 a.m.	681	208	29.38	746.2	30.15	765.8	21.9	—5.6	82.1	1	1	7	7	5	2	3	3	2	8225	13237	9	2.66	67.6
Escanaba	N. 45 48	W. 87 05	6.20 a.m.	612	186	29.38	746.2	30.10	764.5	4.3	—15.4	81.7	4	6	10	4	3	.....	1	1	2	5824	9373	5	1.29	32.8
Fredericksburg	N. 30 17	W. 98 52	5.32 a.m.	1700	518	28.37	720.6	30.19	766.8	38.0	3.3	83.0	8	2	3	7	3	.....	3	2	3	5274	8488	5	0.51	13.0
Galveston	N. 29 18	W. 94 47	5.49 a.m.	48	15	30.12	765.0	30.16	766.1	48.9	9.4	86.6	12	1	1	2	2	4	7	2	.....	10807	17487	4	6.46	164.1
Grand Haven	N. 43 05	W. 86 18	6.23 a.m.	620	189	29.40	746.7	30.10	764.5	18.6	—7.4	83.8	1	2	7	3	2	4	4	5	3	9206	14814	10	2.44	62.0
Grant, Fort	N. 32 39	W. 109 57	4.48 a.m.	4860	1481	25.28	642.1	30.18	766.6	31.5	—0.3	71.5	4	6	1	1	.....	2	7	3	3	4151	6680	3	1.21	30.7
Hatteras	N. 35 15	W. 75 40	7.05 a.m.	19	6	30.18	766.6	30.20	767.1	41.8	5.4	92.8	0	5	2	4	2	1	.....	10	1	10976	17664	6	13.90	353.0
Helena	N. 46 34	W. 112 04	4.40 a.m.	4100	1250	25.77	654.5	30.20	767.1	15.2	—9.3	89.6	.....	2	.....	17	.....	.....	.....	.....	12	4209	6870	6	0.57	14.5
Henrietta *p*	N. 33 46	W. 98 12	5.35 a.m.	980	300	29.14	740.1	30.21	767.3	27.7	—2.4	80.3	4	2	.....	.....	1	3	.....	1	4	2666	4290	5	0.07	1.8
Huron	N. 44 21	W. 98 09	5.35 a.m.	1305	398	28.71	729.2	30.25	768.3	—0.9	—18.3	57.1*b*	1	20	.....	.....	.....	10	.....	.....	.....	8017	12902	4	0.17	4.3
Indianapolis	N. 39 46	W. 86 10	6.23 a.m.	753	229	29.32	744.7	30.16	766.1	21.6	—5.8	78.0	3	4	5	3	6	2	1	7	.....	5094	8198	8	1.32	33.5
Indianola *a*	N. 28 32	W. 96 31	5.42 a.m.	26	8	30.11	764.8	30.14	765.5	46.7	8.2	87.6	13	1	2	.....	4	3	3	4	.....	11029	17749	6	0.97	24.6
Jacksboro	N. 33 12	W. 98 10	5.35 a.m.	1120	341	29.00	736.6	30.24	768.1	30.9	—0.6	63.1	11	4	1	1	4	7	1	1	1	5633	9066	5	0.08	2.0
Jacksonville	N. 30 20	W. 81 39	6.42 a.m.	43	13	30.16	766.1	30.21	767.3	53.5	11.9	87.3	1	2	3	2	5	.....	.....	5	13	1853	2981	3	4.77	121.2
Keogh, Fort	N. 46 22	W. 105 56	5.04 a.m.	2372	723	27.51	698.7	30.20	767.1	1.2	—17.1	73.3	3	2	5	3	2	2	.....	3	11	5116	8223	7	0.18	4.6
Keokuk *a*	N. 40 22	W. 91 26	6.02 a.m.	618	188	29.49	749.0	30.19	766.8	11.2	—11.6	75.3	2	10	6	3	.....	2	3	3	1	7012	11284	4	1.24	31.5
Key West	N. 24 34	W. 81 49	6.41 a.m.	20	6	30.11	764.8	30.13	765.3	70.0	21.1	88.9	2	2	.....	.....	3	7	4	9	4	7837	12612	6	2.82	71.6
Kittyhawk	N. 36 00	W. 75 42	7.05 a.m.	22	7	30.19	766.8	30.21	767.3	38.4	3.6	86.6	7	4	4	4	1	.....	1	10	.....	11063	17804	6	8.16	207.3

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea		Result of Simultaneous Observations for January, 1883.																			Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.														
						Actual.		Reduced.					Directions.									Total Movement.					
				Feet.	Metr's	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0–10	Inch.	Mill.
U. S.—Continued.	o ′	o ′																									
Knoxville	N. 35 56	W. 83 58	6.32 a.m.	980	299	29.14	740.1	30.22	767.6	32.6	0.4	90.6	4	3	4	4	1	1	2	11	1	4367	7028	7	7.94	201.7
La Crosse	N. 43 49	W. 91 15	6.03 a.m.	725	221	29.30	744.2	30.14	765.5	1.2	-17.1	78.2	8	2	5	4	8	2	.....	.....	2	5612	9036	4	1.54	39.1
Lenvenworth	N. 39 19	W. 94 57	5.48 a.m.	842	256	29.31	744.5	30.27	768.8	13.6	-10.2	76.6	4	11	.....	.....	3	1	1	3	8	5182	8340	5	0.75	19.0
Lewiston	N. 46 28	W. 117 05	4.20 a.m.	780	238	29.39	746.5	30.26	768.6	24.4	—4.2	80.3	.....	.....	5	3	3	8	6	4	2	2626	4226	6	3.56	90.4
Little Rock	N. 34 45	W. 92 06	6.00 a.m.	298	91	29.86	758.4	30.19	766.8	35.9	2.2	78.4	3	10	2	3	3	2	3	3	2	4152	6682	6	5.44	138.2
Los Angeles	N. 34 03	W. 118 15	4.15 a.m.	371	113	29.76	755.9	30.16	766.1	46.5	8.1	61.0	3	.....	1	.....	.....	1	7	19	.....	5525	8891	3	1.62	41.1
Louisville	N. 38 15	W. 85 45	6.25 a.m.	530	162	29.58	751.3	30.17	766.3	30.7	—0.7	75.3	5	.....	5	3	5	4	2	7	.....	6582	10592	8	3.52	89.4
Lynchburg	N. 37 25	W. 79 09	6.52 a.m.	652	199	29.48	748.8	30.20	767.1	31.4	—0.3	77.0	1	2	4	5	2	1	1	9	6	2402	3902	6	4.58	116.3
Mackinaw City	N. 45 47	W. 84 39	6.30 a.m.	605	184	29.38	746.2	30.08	764.0	13.5	-10.3	73.2	.....	6	7	1	5	3	5	3	1	9161	14742	7	5.17	131.3
Macon, Fort	N. 34 42	W. 76 40	7.01 a.m.	11	3	30.19	766.8	30.20	767.1	41.3	5.2	88.6	7	9	2	4	.....	2	.....	0	1	7540	12134	7	8.85	224.8
Madison	N. 43 05	W. 89 24	6.10 a.m.	949	289	29.05	737.9	30.14	765.5	4.3	-15.4	72.9	4	8	5	4	3	3	1	2	1	6666	10728	5	1.01	25.7
Maginnis Fort	N. 47 12	W. 109 10	4.51 a.m.	4340	1324	25.45	646.4	30.00	762.0	11.1	-11.6	55.2	3	9	18	.....	.....	.....	.....	1	.....	12083	19445	8	1.30	33.0
McKavett, Fort	N. 30 48	W. 100 07	5.28 a.m.	2240	683	27.87	707.9	30.26	768.6	30.7	—0.7	77.0	5	2	1	3	7	.....	.....	3	6	5086	8185	5	0.02	0.5
Marquette	N. 46 34	W. 87 24	6.18 a.m.	673	205	29.27	743.4	30.05	763.3	8.7	-12.9	09.5	.....	5	16	3	5	2	.....	.....	.....	8049	12953	6	2.36	59.9
Memphis	N. 35 09	W. 90 03	6.08 a.m.	321	98	29.54	757.9	30.20	767.1	35.4	1.9	85.5	3	5	1	3	3	3	1	2	7	3654	5880	7	4.83	122.7
Milwaukee	N. 43 02	W. 87 54	6.16 a.m.	697	212	29.33	745.0	30.13	765 3	9.6a	-12.4a	82.5a	3	7	8	4	4	2	1	.....	2	9071	14598	6	1.66	42.2
Missoula, Fort	N. 46 50	W. 114 07	4.32 a.m.	3140	957	26.75	679.4	30.21	767.3	4.6	-15.2	75.1	4	6	2	2	1	.....	.....	9	7	3037	4888	8	1.95	49.5
Mobile	N. 30 41	W. 88 02	6.16 a.m.	41	12	30.14	765.5	30.18	766.6	47.9	8.8	85.0	14	3	2	1	6	2	1	1	1	4351	7002	6	8.80	223.5
Montgomery	N. 32 23	W. 86 18	6.23 a.m.	219	66	29.94	760.5	30.18	766.6	44.2	6.8	83.5	1	6	.....	1	2	9	1	6	5	4017	6466	6	7.20	182.9
Moorhead	N. 46 52	W. 96 44	5.41 a.m.	923	281	29.12	739.6	30.23	767.8	-14.8	-26.0	97.9	11	4	5	2	4	4	.....	.....	1	10699	17218	4	1.19	30.2
Morgantown	N. 39 40	W. 79 50	6.49 a.m.	963	293	29.14	740.1	30.20	767.1	29.7	—1.3	80.1	1	.....	5	13	1	1	.....	4	6	5595	9004	8	4.93	125.2
Mt. Washington	N. 44 16	W. 71 18	7.23 a.m.	6279	1914	23.42	594.9	30.05	763.3	0.5	-17.5	83.3	1	22	4	3	.....	.....	.....	.....	.....	27561	33089	3	4.10	105.7
Nashville	N. 36 10	W. 86 47	6.21 a.m.	507	154	29.59	751.6	30.20	767.1	33.9	1.1	84.5	2	9	2	2	3	4	5	3	1	5201	8370	8	3.73	94.7
New Haven	N. 41 18	W. 72 56	7.16 a.m.	107	32	30.08	764.0	30.20	767.1	20.8	—6.2	79.7	10	1	4	3	.....	1	.....	9	3	6600	10622	7	3.60	91.4
New London	N. 41 21	W. 72 05	7.20 a.m.	47	14	30.16	766.1	30.22	767.6	23.4	—4.8	77.0	9	4	4	3	1	1	.....	6	3	5247	8444	7	4.38	111.2
New Orleans	N. 29 58	W. 90 04	6.08 a.m.	52	16	30.10	764.5	30.16	766.1	53.0	11.7	70.6	4	3	.....	2	5	6	5	6	.....	6437	10309	5	10.03	270.0
Newport	N. 41 29	W. 71 19	7.23 a.m.	44	13	30.14	765.5	30.19	766.8	25.1	—3.8	79.0	9	7	5	4	2	.....	2	2	.....	7980	12842	7	5.82	147.8
New York	N. 40 43	W. 74 00	7.12 a.m.	164	50	30.03	762.7	30.22	767.6	25.9	—3.4	83.3	4	1	7	2	2	2	1	7	5	5175	8328	7	3.22	81.8
Norfolk	N. 36 51	W. 76 17	7.03 a.m.	30	9	30.18	766.6	30.21	767.3	36.3	2.4	84.6	7	3	1	6	3	.....	1	9	1	4870	7837	5	0.91	175.5
North Platte	N. 41 08	W. 100 45	5.25 a.m.	2841	866	27.10	688.3	30.22	767.6	8.8	-12.9	74.9	2	2	8	2	1	2	.....	3	11	6762	10882	4	1.20	30.5
Olympia	N. 47 03	W. 122 53	3.57 a.m.	36	11	30.13	765.3	30.17	766.3	34.0	1.1	84.4	1	.....	.....	3	18	.....	.....	2	7	3198	5147	7	5.68	144.3
Omaha	N. 41 16	W. 95 56	5.44 a.m.	1113	339	28.99	736.3	30.26	768.6	6.8	-14.0	68.3	7	8	4	.....	5	2	.....	2	3	5858	9427	4	1.01	25.6
Ogdaamie	N. 71 17	W. 156 40	1.41 a.m.	17	5	29.95	760.7	29.97	761.2	-20.4	-29.1	99.3e	4	2	4	2	.....	2	7	5	.....	10155	16342	3	0.14	3.6
Oswego	N. 43 29	W. 76 35	7.02 a.m.	304	93	29.80	756.9	30.15	765.8	20.8	—6.2	68.5	1	2	4	4	7	7	3	3	.....	8725	14041	9	1.10	29.5
Palestine	N. 31 45	W. 95 40	5.45 a.m.	523	162	29.64	752.8	30.22	767.6	37.6	3.1	77.9	7	8	1	1	6	1	1	6e	.....	6777	10906	6	3.79	96.3
Pensacola	N. 30 25	W. 87 13	6.19 a.m.	30	9	30.16	766.1	30.19	766.8	50.5	10.3	82.3	8	2	.....	2	2	1	3	10	3	4553	7327	5	9.97	253.2
Philadelphia	N. 39 57	W. 75 09	7.07 a.m.	92	28	30.12	765.0	30.23	767.8	28.2	—2.1	78.1	4	10	2	4	.....	2	.....	7	2	6034	9711	6	4.13	104.9
Pike's Peak	N. 38 50	W. 105 02	5.08 a.m.	14134	4308	17.44	443.0	30.14	765.5	-3.8	-19.9	81.9	4	7	9	6	.....	.....	.....	5	.....	9538 o	15350 o	4	0.54	13.7
Ploche	N. 37 56	W. 114 26	4.30 a.m.	6110	1862	24.06	611.1	30.26	768.6	20.2	—6.6	69.4	4	14	4	5	3	.....	.....	1	.....	4028	7448	3	0.20	5.1
Pittsburg	N. 40 32	W. 80 02	6.48 a.m.	762	232	29.32	744.7	30.17	766.3	25.8	—3.4	83.6	3	5	3	6	4	.....	2	5	3	4270	6872	9	3.22	81.8
Poplar River c	N. 48 08	W. 105 10	5.07 a.m.	2030	619	27.86	707.6	30.21	767.3	.....	.....	.....	.....	25	2	.....	.....	.....	.....	1	.....	.....	.....	3	0.46	11.7
Port Eads	N. 29 09	W. 89 15	6.11 a.m.	7	2	30.16	766.1	30.17	766.3	55.6	13.1	88.7	7	3	.....	.....	6	3	7	5	.....	9412	15148	5	8.83	224.3
Port Huron	N. 43 00	W. 82 26	6.38 a.m.	633	193	29.42	747.3	30.15	765.8	13.6	-10.2	86.8	.....	5	5	8	4	2	3	3	1	7441	11975	8	1.65	41.9
Portland, Maine	N. 43 39	W. 70 15	7.27 a.m.	45	14	30.12	765.0	30.17	766.3	17.6	—8.0	67.6	12	10	5	2	1	.....	.....	1	.....	6788	10924	5	2.53	64.3
Portland, Oregon	N. 45 32	W. 122 43	3.57 a.m.	67	20	30.15	765.8	30.22	767.6	35.4	1.9	86.3	5	3	.....	.....	.....	11	1	2	2	4016	6464	8	13.71	348.2
Portsmouth b	N. 35 02	W. 76 04	7.04 a.m.	40	12	.....	.....	.....	.....	42.7	5.9	92.1	3	3	.....	2	5	.....	.....	15	1	.....	.....	8	11.43	290.3
Prescott	N. 34 33	W. 112 28	4.38 a.m.	5340	1628	24.79	629.7	30.17	766.3	24.0	—4.4	77.9	1	2	6	11	6	1	1	.....	3	4017	6465	3	0.31	7.8
Provincetown	N. 42 03	W. 70 11	7.27 a.m.	26	8	30.14	765.5	30.17	766.3	27.2	—2.7	78.0	4	7	5	2	2	4	1	5	1	8997	14489	7	4.76	120.9
Punta Rassa a	N. 26 29	W. 82 01	6.40 a.m.	13	4	30.15	765.8	30.16	766.1	63.1	17.3	89.8	2	1	.....	.....	4	7	5	12	.....	7590	12215	6	1.29	32.8
Red Bluff	N. 40 10	W. 122 15	3.59 a.m.	350	106	29.91	759.7	30.28	769.1	35.4	1.9	84.9	19	6	1	.....	3	.....	.....	.....	2	4015	6461	3	0.87	22.1
Rochester	N. 43 08	W. 77 42	6.57 a.m.	621	189	29.45	748.0	30.16	766.1	18.8	—7.3	87.5	1	2	7	9	3	4	4	1	.....	10301	16577	9	0.94	23.9
Roseburg	N. 43 13	W. 123 20	3.55 a.m.	511	156	29.71	754.6	30.28	769.1	33.6	0.9	85.1	.....	2	3	5	7	3	3	1	7	2119	3410	6	2.98	75.7
Sacramento	N. 38 35	W. 121 30	4.02 a.m.	65	20	30.19	766.8	30.27	768.8	37.8	3.2	88.5	9	6	1	.....	4	5	2	.....	4	3770	4458	4	2.23	56.6
Saint Louis	N. 38 38	W. 90 12	6.07 a.m.	568	173	29.58	751.3	30.22	767.6	20.5	—6.4	85.6	3	12	5	3	1	3	2	2	.....	8783	14132	7	0.94	23.9
Saint Michael, Ft	N. 63 48	W. 162 00	1.20 a.m.	30	9	29.60	751.8	29.64	752.8	15.8	—9.0	99.1	2	.....	1	1	4	5	3	13	2	7176h	11549h	9	2.83	66.8
Saint Paul	N. 44 58	W. 93 03	5.56 a.m.	811	247	29.21	741.9	30.15	765.8	-2.5	-19.2	83.6	3	3	5	8	.....	5	1	6	1	4751	7646	4	0.64	16.3
Saint Vincent	N. 48 56	W. 97 14	5.39 a.m.	804	245	29.24	742.7	30.22	767.6	-17.5	-27.5	95.0	4	11	.....	7	3	3	.....	1	2	6894	11094	4	0.33	8.4
Salt Lake City	N. 40 46	W. 111 54	4.40 a.m.	4348	1325	25.73	653.5	30.30	769.6	21.2	—0.0	59.5	1	.....	.....	2	.....	6	1	.....	21	2333	3755	5	1.47	37.3
San Antonio	N. 29 25	W. 98 25	5.34 a.m.	673	205	29.45	748.0	30.18	766.6	41.0	5.0	81.9	10	4	1	2	1	1	.....	7	5	3961	6375	5	0.37	9.4
San Diego	N. 32 43	W. 117 10	4.19 a.m.	67	20	30.06	763.5	30.13	765.3	47.9	8.8	64.2	7	1	1	.....	.....	1	8	11	1	4157	6690	3	1.09	27.7
Sandusky	N. 41 25	W. 82 40	6.37 a.m.	639	195	29.44	747.8	30.16	766.1	20.2	—6.6	79.5	3	4	9	6	4	3	1	1	.....	10037	16153	8	1.01	25.7
Sandy Hook	N. 40 28	W. 74 00	7.12 a.m.	28	8	30.18	766.6	30.21	767.3	26.9	—2.8	82.2	4	7	5	5	.....	2	.....	8	.....	11727	18872	6	3.35	85.1
San Francisco b	N. 37 48	W. 122 26	3.58 a.m.	60	18	30.18	766.6	30.24	768.1	44.2	6.8	84.8	4	11	2	2	2	3	3	2	.....	5307	8540	4	1.92	48.8
Santa Fé	N. 35 41	W. 105 57	5.04 a.m.	7106	2166	23.16	588.3	30.21	767.3	21.5	—5.8	60.9	9	2	.....	.....	3	3	5	.....	7	7159	11521	3	0.42	10.7
Savannah	N. 32 05	W. 81 05	6.44 a.m.	87	26	30.12	765.0	30.22	767.6	50.1	10.1	75.0	8	7	3	3	4	1	2	3	.....	4756	7654	6	7.34	186.4
Shaw, Fort	N. 47 31	W. 111 48	4.41 a.m.	3550	1082	26.34	666.0	30.20	767.1	10.6	-11.9	74.7	2	2	9	8	.....	.....	3	5	2	8431	13508	5	0.54	13.7
Shreveport	N. 32 30	W. 93 40	5.53 a.m.	227	69	29.94	760.5	30.18	766.6	38.7	3.7	82.0	4	10	1	1	4	3	2	6	.....	4534	7297	6	3.54	89.9
Sill, Fort	N. 34 40	W. 98 23	5.34 a.m.	1200	366	28.91	734.3	30.24	768.1	25.4	—3.7	71.4	16	4	.....	1	5	2	.....	3	.....	8790	14146	4	0.20	5.1
Silver City	N. 32 46	W. 108 14	4.55 a.m.	5890	1795	24.29	617.0	30.15	765.8	26.8	—2.9	78.6	7	12	3	1	.....	.....	.....	.....	8	2132	3431	2	1.68	42.7
Sitka	N. 57 03	W. 135 19	3.07 a.m.	63	19	29.84	757.9	29.91	759.7	36.5	2.5	76.1	1	1	.....	.....	.....	3	19	6	1	6105	9825	7	4.69	119.1
Smith, Fort a	N. 35 22	W. 94 24	5.50 a.m.	449	137	29.71	754.6	30.21	767.3	28.8	—1.8	81.7	3	2	6	1	.....	.....	6	.....	12	4231	6809	6	2.71	68.8
Smithville	N. 33 55	W. 78 01	6.56 a.m.	34	10	30.17	766.3	30.21	767.3	42.6	5.9	88.6	12	4	4	3	1	.....	.....	7	.....	5775	9294	6	5.03	143.0
Spokane Falls	N. 47 40	W. 117 25	4.18 a.m.	1910?	582?	28.09	713.5	30.23	767.8	20.1	—6.6	82.6	.....	4	4	3	5	.....	1	5	10	3311	5329	7	2.13	54.1
Springfield, Ill	N. 39 48	W. 89 39	6.10 a.m.	644	196	29.47	748.5	30.20	767.1	19.5	—6.9	77.7	7	7	4	4	2	4	.....	3	.....	7707	12403	7	1.96	49.8
Springfield, Mo	N. 37 12	W. 93 18	5.55 a.m.	1351	412	28.69	728.7	30.21	767.3	22.9	—5.1	80.5	2	11	4	3	4	4	.....	1	2	7202	11590	5	1.05	26.7
Starkville	N. 33 35	W. 88 49	6.13 a.m.	455	123	29.70	754.4	30.20	767 1	39.4	4.1	85.6	5	7	2	1	8	2	2	2	2	6526	10502	6	9.85	250.2
Stevenson, Fort b	N. 47 35	W. 101 28	5.22 a.m.	1750	534	28.21	716.5	30.27	768.8	-8.3	-22.4	81.3	.....	14	4	1	.....	2	4	2	2	8149	13115	5	0.41	10.4
Stockton, Fort	N. 30 53	W. 102 53	5.16 a.m.	3010	917	27.07	687.6	30.21	767.3	30.0	—1.1	68.0	3	4	1	16	3	4	1	1	1	5743	9242	2	0	0
Thatcher's Island	N. 42 38	W. 70 34	7.26 a.m.	48	15	30.13	765.3	30.19	766.8	25.8	—3.4	79.9	4	9	7	3	4	.....	2	2	.....	13096	21076	7	5.12	130.0
Thomas, Camp	N. 33 04	W. 110 02	4.48 a.m.	2710	826	27.35	694.7	30.18	766.6	32.2	0.1	81.5	.....	2	.....	4	3	5	.....	.....	20	.....	.....	2	1.23	31.2
Toledo	N. 41 40	W. 83 34	6.34 a.m.	651	198	29.42	747.3	30.16	766.1	19.3	—7.1	76.0	2	2	3	9	4	2	1	5	3	7140	11490	7	1.77	45.0
Tucson	N. 32 14	W. 110 53	4.45 a.m.	2369	722	27.66	702.6	30.16	766.1	36.6	2.6	76.1	.....	1	.....	.....	14	12	1	2	2	2640	4249	3	1.27	32.3
Umatilla	N. 45 55	W. 119 20	4.11 a.m.	340	103	29.90	759.4	30.29	769.4	25.9	—3.4	85.5	1	2	1	3	5	10	4	2	3	4099	6597	6	2.56	65.0
Verde, Fort	N. 34 33	W. 111 52	4.40 a.m.	?	?	.....	.....	.....	.....	30.5	—0.8	63.5	9	10	8	3	1	.....	.....	.....	.....	.....	.....	4	0.44	11.2
Vicksburg	N. 32 22	W. 90 53	6.04 a.m.	244	74	29.93	760.2	30.20	767.1	42.8	6.0	78.5	5	5	.....	3	1	7	1	4	5	4698	7561	6	7.65	194.3
Visalia	N. 36 20	W. 119 17	4.11 a.m.	348	106	29.86	758.4	30.25	768.3	34.1	1.2	85.8	2	1	2	1	5	7	5	4	4	1862	2996	3	0.06	1.5
Washakie, Fort	N. 42 59	W. 108 43	4.53 a.m.	5580	1702	24.34	618.2	30.13	765.3	7.8	-13.4	75.9d	1	3	15	3	3	1	1	.....	4	5906	9502	4	0.83	21.1
Washington, D. C.	N. 38 54	W. 77 02	7.00 a.m.	106	32	30.12	765.0	30.24	768.1	27.3	—2.6	87.3	4	3	.....	3	4	2	1	8	6	2677	4308	7	3.15	80.0
W. Las Animas	N. 38 04	W. 103 07	5.16 a.m.	3905	1190	26.03	661.2	30.16	766.1	8.4	-13.1	79.9	4	10	6	5	.....	1	2	1	2	6547	10536	4	0.14	3.6
Williamsport	N. 41 15	W. 77 03	7.00 a.m.	561	171	29.57	751.1	30.20	767.1	22.6	—5.2	81.8	1	4	7	.....	.....	1	10	1	7	3332	5362	8	2.78	70.6
Wilmington	N. 34 14	W. 77 57	6.56 a.m.	52	16	30.15	765.8	30.21	767.3	43.8	6.6	87.3	3	6	2	4	3	1	3	8	1	4449	7160	8	6.33	160.8
Winnemucca	N. 40 59	W. 117 43	4.17 a.m.	4327	1319	25.74	653.8	30.28	769.1	16.8	—8.4	70.5	1	.....	2	12	.....	.....	1	14	1	6699	10781	4	0.65	16.5
Yankton	N. 42 54	W. 97 28	5.38 a.m.	1228	374	28.81	731.8	30.23	767.8	2.6	-16.3	64.5	6	9	3	3	2	1	3	2	2	5345	8602	4	1.06	26.9
Yuma	N. 32 45	W. 114 36	4.30 a.m.	141	43	29.97	761.2	30.12	765.0	44.5	6.9	60.9	10	3	1	2	.....	.....	.....	3	7	3435	5528	2	0.96	24.4
Sub-Series.																											
Bogota	N. 4 36	W. 74 14	7.11 a.m.	8655	2638	22.03	559.6	.....	.....	51.6	10.9	73	4	1	1	4	4	.....	2	2	13	1835	2953	6	4.12	104.6
Havana	N. 23 09	W. 82 22	6.39 a.m.	50	15	30.04	763.0	30.10	764.5	67.5	19.7	89.3	2	2	.....	.....	2	4	10	1	10	3945	6349	3	4.74	120.4
Kingston	N. 18 58	W. 76 48	7.01 a.m.	10	3	30.08	764.0	30.09	764.3	71.3	21.8	84.4	16	.....	.....	.....	.....	1	1	13	3149	5069	4	3.73	94.7
Paramaribo	N. 5 50	W. 55 13	8.27 a.m.	6	2	30.05	763.3	30.05	763.3	77.1	25.1	86	.....	.....	.....	.....	.....	10	20	1	.....	.....	.....	6	3.59	91.2
Puerto Berrio	N. 6 22	W. 74 28	7.10 a.m.	542	165	29.39	746.5	29.95	760.7	77.6	25.3	89	.....	.....	.....	.....	3	.....	.....	28	.....	.....	.....	7	0.47	11.9
Rivas	N. 11 26	W. 85 47	6.25 a.m.	150	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
St. Paul, Alaska d	N. 57 47	W. 152 21	1.59 a.m.	54	16	29.58	751.3	29.64	752.8	32.7	0.4	81.6	1	2	.....	3	5	2	3	2	9	.....	.....	6	11.90	302.3
St. Thomas	N. 18 20	W. 64 56	7.48 a.m.	131	40	30.04	763.0	30.17	766.3	75.8	24.3	76.5	.....	.....	.....	.....	.....	2	23	6	.....	3752	6038	5	3.63	92.2
York Factory	N. 57 02	W. 92 26	5.58 a.m.	55	17	30.00	762.0	30.07	763.8	-28.9	-33.8	70.6	.....	13	8	5	4	1	.....	.....	.....	9720	15642	2	0.71	18.0

OCEAN SQUARE DATA FOR JANUARY, 1883.

Location of Centre of each Square.	Barometer.		Temperature.		Wind Frequency.										Wind force 0–10.
	Inch.	Mill.	Fah.	Cent.	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Blank.	
N. 12.5 W. 22.5	30.05	763.3	75.1	23.9	.....	.....	.....	.....	1	1	1	18	.....	10	2.6
12.5 27.5	30.04	763.0	75.7	24.3	.....	.....	.....	1	.....	2	2	19	.....	7	2.9
12.5 32.5	30.03	762.7	75.9	24.4	.....	.....	1	1	.....	1	4	16	.....	8	3.0
12.5 37.5	30.03	762.7	76.2	24.6	.....	2	1	.....	.....	.....	6	9	.....	13	2.9
17.5 22.5	30.11	764.8	72.8	22.7	.....	.....	.....	.....	.....	2	5	17	.....	7	2.6
17.5 27.5	30.10	764.5	73.1	22.8	1	.....	.....	.....	2	2	3	18	.....	5	8.1
17.5 32.5	30.09	764.3	69.6	20.9	1	.....	.....	2	.....	2	6	13	.....	7	3.1
17.5 37.5	30.10	764.5	74.0	23.3	.....	2	.....	.....	.....	2	10	9	.....	8	3.0
17.5 52.5	30.12	765.0	74.9	23.8	.....	.....	.....	.....	.....	2	5	12	.....	12	2.4
17.5 57.5	30.11	764.8	75.3	24.1	.....	.....	.....	.....	.....	.....	11	18	1	1	2.2
22.5 22.5	30.18	766.6	70.5	21.4	2	.....	.....	.....	.....	5	8	9	.....	7	2.8
22.5 27.5	30.16	766.1	71.1	21.7	1	1	.....	.....	2	6	7	9	.....	5	2.6
22.5 32.5	30.16	766.1	72.3	22.4	1	1	.....	.....	1	5	7	8	.....	8	2.8
22.5 37.5	30.17	766.3	72.5	22.5	.....	.....	.....	.....	4	8	9	3	.....	6	2.4
22.5 42.5	30.18	766.6	72.9	22.7	.....	.....	.....	.....	.....	2	13	9	.....	7	2.8
22.5 47.5	30.19	766.8	72.9	22.7	.....	.....	.....	.....	.....	3	9	13	.....	6	2.8
22.5 52.5	30.18	766.6	73.1	22.8	.....	.....	.....	.....	2	.....	10	14	.....	5	2.7
22.5 57.5	30.18	766.6	73.0	22.8	1	.....	.....	.....	2	1	9	18	.....	.....	2.7
22.5 62.5	30.18	766.6	73.2	22.9	.....	.....	.....	.....	3	4	9	15	.....	.....	3.1
22.5 67.5	30.18	766.6	73.2	22.9	.....	.....	.....	1	2	4	13	11	.....	.....	2.5
22.5 72.5	30.15	765.8	73.4	23.0	2	1	.....	.....	.....	7	13	8	.....	.....	2.5
27.5 22.5	30.21	767.3	67.4	19.7	2	2	1	2	2	9	4	7	.....	2	2.8
27.5 27.5	30.19	766.8	68.2	20.1	2	4	1	2	4	7	4	5	.....	2	2.7
27.5 32.5	30.19	766.8	69.3	20.7	7	2	.....	1	1	4	8	3	.....	5	2.8
27.5 37.5	30.21	767.3	71.9	22.2	5	2	.....	.....	2	3	7	7	.....	5	2.8
27.5 42.5	30.23	767.8	70.4	21.3	5	3	.....	1	1	2	7	9	.....	3	2.3
27.5 47.5	30.25	768.3	70.5	21.4	4	3	.....	1	2	2	7	7	.....	5	2.4
27.5 52.5	30.24	768.1	70.8	21.6	3	1	.....	2	3	2	7	11	.....	2	2.2
27.5 57.5	30.24	768.1	70.6	21.4	1	1	.....	2	4	4	5	13	.....	1	2.5
27.5 62.5	30.23	767.8	70.7	21.5	1	1	.....	2	6	4	7	9	1	.....	2.5
27.5 67.5	30.23	767.8	70.8	21.6	2	1	1	3	2	6	6	10	.....	.....	2.4
27.5 72.5	30.21	767.3	70.4	21.3	2	1	1	.....	2	10	9	6	.....	.....	2.5
27.5 77.5	30.20	767.1	68.0	20.0	1	2	.....	1	6	8	8	5	.....	.....	2.5
32.5 12.5	30.21	767.3	63.0	17.2	4	4	4	2	1	9	5	2	.....	.....	2.0
32.5 17.5	30.23	767.8	63.9	17.7	3	4	4	2	3	14	.....	1	.....	.....	1.6
32.5 22.5	30.19	766.8	64.3	17.9	2	7	3	2	6	7	2	2	.....	.....	3.1
32.5 27.5	30.17	766.3	64.7	18.2	1	8	3	3	5	8	1	2	.....	.....	2.7
32.5 32.5	30.17	766.3	65.3	18.5	1	13	1	3	3	5	1	3	.....	1	2.8
32.5 37.5	30.19	766.8	65.3	18.5	3	11	4	2	3	4	1	2	.....	1	2.9
32.5 42.5	30.21	767.3	64.6	18.1	3	8	5	2	3	2	1	5	.....	2	2.9
32.5 47.5	30.23	767.8	64.7	18.2	5	8	7	4	1	.....	.....	3	.....	2	3.0
32.5 52.5	30.24	768.1	65.0	18.3	.....	10	4	4	.....	3	3	5	.....	2	2.7
32.5 57.5	30.22	767.6	65.5	18.6	3	6	7	4	4	3	.....	4	.....	.....	3.0
32.5 62.5	30.21	767.3	63.7	17.6	3	5	1	9	5	5	1	2	.....	.....	2.3
32.5 67.5	30.21	767.3	64.1	17.8	5	6	1	10	3	3	.....	2	1	.....	3.0
32.5 72.5	30.20	767.1	61.5	16.4	9	2	.....	5	5	3	2	5	.....	.....	2.7
32.5 77.5	30.20	767.1	53.2	11.8	8	3	1	5	3	3	1	7	.....	.....	2.5
37.5 12.5	30.14	765.5	58.3	14.6	3	6	1	7	10	2	1	1	.....	.....	2.7
37.5 17.5	30.10	764.5	60.1	15.6	.....	9	6	7	8	1	.....	.....	.....	.....	3.1
37.5 22.5	30.13	765.3	60.5	15.8	.....	11	5	7	6	1	.....	1	.....	.....	2.9
37.5 27.5	30.13	765.3	60.3	15.7	.....	10	7	7	6	.....	.....	1	.....	.....	2.7
37.5 32.5	30.09	764.3	59.8	15.4	1	10	6	10	2	.....	.....	1	.....	1	3.0
37.5 37.5	30.08	764.0	58.7	14.8	1	13	6	7	2	.....	.....	1	.....	1	3.2
37.5 42.5	30.08	764.0	57.1	13.9	2	15	4	7	1	.....	.....	1	.....	1	3.4
37.5 47.5	30.12	765.0	55.4	13.0	4	14	5	5	2	.....	.....	.....	.....	1	3.5
37.5 52.5	30.14	765.5	54.7	12.6	3	14	1	10	1	.....	.....	2	.....	.....	3.5
37.5 57.5	30.17	766.3	54.7	12.6	6	7	2	10	1	2	.....	3	.....	.....	3.5
37.5 62.5	30.14	765.5	54.3	12.4	5	8	3	7	2	1	.....	5	.....	.....	3.6
37.5 67.5	30.18	766.6	51.1	10.6	8	8	1	4	1	2	1	6	.....	.....	3.5
37.5 72.5	30.18	766.6	43.5	6.4	9	5	.....	3	4	1	1	8	.....	.....	3.3
42.5 12.5	29.97	761.2	55.2	12.9	.....	5	4	11	10	.....	.....	1	.....	.....	3.5
42.5 17.5	29.89	759.2	56.2	13.4	.....	8	6	10	6	.....	.....	1	.....	.....	4.1
42.5 22.5	29.91	759.7	55.6	13.1	.....	7	10	10	3	1	.....	.....	.....	.....	3.9
42.5 27.5	29.88	758.9	54.6	12.6	.....	10	5	14	2	.....	.....	.....	.....	.....	4.4
42.5 32.5	29.85	758.2	53.5	11.9	2	10	6	13	.....	.....	.....	.....	.....	.....	4.2
42.5 37.5	29.86	758.4	50.9	10.5	2	14	6	9	.....	.....	.....	.....	.....	.....	4.5
42.5 42.5	29.91	759.7	46.6	8.1	3	16	3	7	1	.....	.....	1	.....	.....	4.2
42.5 47.5	29.98	761.5	41.6	5.3	.....	18	5	6	2	.....	.....	.....	.....	.....	4.3
42.5 52.5	30.01	762.2	39.6	4.2	1	14	2	8	2	1	.....	3	.....	.....	4.0
42.5 57.5	30.05	763.3	37.7	3.2	3	14	3	5	.....	3	1	2	.....	.....	4.1
42.5 62.5	30 09	764.3	34.7	1.5	8	10	3	3	1	1	1	4	.....	.....	3.6
42.5 67.5	30.15	765.8	26.9	—2.8	10	7	2	1	2	2	1	5	1	.....	3.2
47.5 12.5	29.80	756.9	52.3	11.3	1	3	6	13	6	2	.....	.....	.....	.....	4.9
47.5 17.5	29.65	753.1	51.7	10.9	1	6	6	9	7	2	.....	.....	.....	.....	4.9
47.5 22.5	29.63	752.6	50.5	10.3	.....	7	12	9	3	.....	.....	.....	.....	.....	4.6
47.5 27.5	29.60	751.8	49.0	9.4	1	10	9	7	2	2	.....	.....	.....	.....	5.1
47.5 32.5	29.58	751.3	46.3	7.9	1	11	8	9	.....	2	.....	.....	.....	.....	4.8
47.5 37.5	29.60	751.8	42.1	5.6	1	15	9	4	1	.....	.....	1	.....	.....	4.7
47.5 42.5	29.70	754.4	37.2	2.9	2	15	8	4	1	.....	.....	1	.....	.....	4.9
47.5 47.5	29.73	755.1	29.5	—1.4	1	18	7	5	.....	.....	.....	.....	.....	.....	4.5
52.5 12.5	29.60	751.8	47.9	8.8	.....	3	4	8	7	7	2	.....	.....	.....	4.6
52.5 17.5	29.48	748.8	46.9	8.3	1	4	5	8	5	7	.....	1	.....	.....	4.8
52.5 22.5	29.41	747.0	45.5	7.5	.....	6	7	5	4	7	1	1	.....	.....	4.7
52.5 27.5	29.36	745.7	42.5	5.8	2	9	4	6	5	3	1	1	.....	.....	4.9
52.5 32.5	29.43	747.5	38.9	3.8	1	9	7	4	4	5	.....	1	.....	.....	4.5
52.5 37.5	29.44	747.8	34.3	1.3	2	15	7	4	1	.....	1	1	.....	.....	4.5
52.5 42.5	29.46	748.3	28.8*a*	—1.8*a*	2	18	4	5	.....	.....	.....	2	.....	.....	4.3
52.5 47.5	29.55 *a*	750.6*a*	23.2*g*	—4.9*g*	5	17	4	2	.....	.....	.....	.....	.....	3	4.1
57.5 12.5	29.45	748.0	42.6	5.9	1	3	1	8	5	13	.....	.....	.....	.....	4.5
57.5 17.5	29.35	745.5	40.7	4.8	1	5	1	7	3	12	1	1	.....	.....	4.5
57.5 22.5	29.28	743.7	38.7	3.7	2	5	4	3	4	10	1	1	.....	1	4.2
57.5 27.5	29.23	742.4	34.9	1.6	1	6	3	3	4	10	1	2	.....	1	4.2
57.5 32.5	29.25	742.9	32.9	0.5	2	7	2	3	4	8	.....	4	.....	1	4.5
57.5 37.5	29.22	742.2	29.6*g*	—1.3*g*	4	9	2	3	4	4	1	4	.....	.....	4.2
57.5 42.5	29.29	744.0	24.6*m*	—4.1*m*	3	14	3	4	1	.....	.....	4	.....	2	4.2
57.5 47.5	29.31 *a*	744.5*a*	.....	.....	9	17	1	1	.....	.....	.....	1	.....	2	4.0

NOTE.—See General Remarks.

NIKOLAIEVSK-ON-THE-AMOOR, SIBERIA.

DATE.	Barometer. Corrected for instrumental error and temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative Humidity	Wind. Direction.	Wind. Velocity.		Force	Clouds. Amount.		Clouds. Direction.		Rainfall or melted snow in past 24 hours.		Weather.
												Upper.	Lower.	Up'er	Lo'er			
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles per hour	Metrs pr sec.	0–10	0–10	0–10	From	From	Inch.	Mill.	
1882.																		
July 1	29.75	755.6	29.84	757.8	53.4	11.9	76	n.	2	1			2			0	0	
2	29.81	757.1	29.89	759.3	52.0	11.1	90	n.	2	1			10			0	0	
3	29.91	759.8	30.00	762.0	55.2	12.9	91	calm	0	0			10			0	0	
4	29.85	758.2	29.94	760.4	54.9	12.7	93	calm	0	0			8			0	0	
5	29.93	760.1	30.01	762.3	47.7	8.7	89	calm	0	0			1			0	0	
6	29.99	761.7	30.08	763.9	58.8	14.9	66	calm	0	0			1			0	0	
7	30.02	762.4	30.10	764.6	60.6	15.9	79	calm	0	0			8			0	0	
8	29.98	761.5	30.07	763.7	62.8	17.1	86	e.	4	2			10			0	0	
9	29.94	760.4	30.02	762.6	63.9	17.7	65	e.	7	3			5			0	0	
10	29.84	757.9	29.93	760.1	61.7	16.5	75	e.	11	5			4			0	0	
11	29.76	756.0	29.85	758.2	61.3	16.3	89	e.	4	2			10			0	0	
12	29.71	754.6	29.80	756.8	62.1	16.7	89	se.	13	6			10			0.047	1.2	
13	29.72	755.0	29.81	757.2	61.0	16.1	86	se.	7	3			7			0	0	
14	29.86	758.4	29.95	760.6	58.8	14.9	81	se.	13	6			10			0	0	
15	29.97	761.3	30.06	763.5	57.6	14.2	82	e.	11	5			10			0	0	
16	29.94	760.5	30.03	762.7	66.0	18.9	81	e.	4	2			10			0	0	
17	29.76	755.8	29.84	758.0	66.4	19.1	83	calm	0	0			4			0	0	
18	29.83	757.6	29.91	759.8	55.2	12.9	87	calm	0	0			1			0	0	
19	29.69	754.0	29.77	756.2	55.2	12.9	77	n.	2	1			1			0	0	
20	29.34	745.2	29.43	747.4	68.2	20.1	89	e.	2	1			10			0	0	
21	29.35	745.6	29.44	747.8	68.0	20.0	92	e.	4	2			10			0.173	4.4	
22	29.45	748.1	29.54	750.3	63.7	17.6	95	calm	0	0			10			0.340	8.8	
23	29.49	749.0	29.58	751.2	66.7	19.3	91	e.	11	5			10			0.835	21.2	
24																		
25	29.04	737.6	29.13	739.8	75.7	24.3	68	calm	0	0			10			0	0	
26	29.25	743.0	29.34	745.2	64.6	18.1	71	calm	0	0			1			0	0	
27	29.63	752.5	29.71	754.7	58.5	14.7	78	calm	0	0			0			0	0	
28	29.56	750.7	29.64	752.9	66.4	19.1	79	e.	20	9			10			0	0	
29	29.70	754.3	29.78	756.5	57.4	14.1	90	calm	0	0			10			0	0	
30	29.61	752.1	29.70	754.3	55.2	12.9	89	calm	0	0			10			0	0	
31	29.18	741.2	29.27	743.4	63.5	17.5	94	se.	7	3			10			0.462	10.2	
Mean	29.69	754.2	29.78	756.4	60.8	16.0	83.2						7			1.803	45.8	
August 1	29.36	745.8	29.45	748.0	57.7	14.3	94	calm	0	0			10			0.303	7.7	
2	29.61	752.0	29.69	754.2	58.5	14.7	91	calm	0	0			10			0.106	2.7	
3	29.77	756.1	29.85	758.3	63.5	17.5	94	calm	0	0			0			0	0	
4	29.80	756.9	29.89	759.1	69.6	20.9	92	se.	9	4			10			0	0	
5	29.52	749.9	29.61	752.1	74.7	23.7	85	e.	13	6			10			0	0	
6	29.57	751.1	29.66	753.3	67.6	19.8	84	ne.	4	2			5			0	0	
7	29.37	746.1	29.46	748.3	73.2	22.9	55	w.	20	9			0			0	0	
8	29.61	752.1	29.70	754.3	64.2	17.9	86	w.	9	4			9			0.630	16.0	
9	29.82	757.5	29.91	759.7	56.7	13.7	74	calm	0	0			5			0	0	
10	29.93	760.2	30.02	762.4	55.9	13.3	75	calm	0	0			10			0	0	
11	29.87	758 6	29.95	760.8	59.4	15.2	67	calm	0	0			2			0	0	
12	29.76	756.0	29.85	758.2	62.4	16.9	68	calm	0	0			2			0	0	
13	29.69	754.2	29.78	756.4	64.2	17.9	93	calm	0	0			2			0	0	
14	29.70	754.3	29.78	756.5	66.0	18.9	83	calm	0	0			4			0	0	
15	29.69	754.2	29.78	756.4	65.7	18.7	81	calm	0	0			2			0	0	
16	29.71	754.6	29.80	756.8	65.7	18.7	80	calm	0	0			0			0	0	
17	29.65	753.2	29.74	755.4	69.1	20.6	78	calm	0	0			0			0	0	
18	29.65	753.2	29.74	755.4	70.7	21.5	49	calm	0	0			10			0	0	
19	29.63	752.5	29.71	754.7	68.2	20.1	91	e.	4	2			10			0	0	
20	29.51	749.5	29.60	751.7	64.9	18.3	94	calm	0	0			10			0.882	22.4	
21	29.54	750 3	29.63	752.5	60.8	16.0	90	e.	7	3			10			0.551	14.0	
22																		
23	29.71	754.6	29.80	756.8	64.2	17.9	71	calm	0	0			8			0	0	
24	29.93	760.2	30.02	762.4	62.6	17.0	84	calm	0	0			10			0	0	
25	29.81	757.3	29.90	759.5	57.4	14.1	87	calm	0	0			10			1.071	27.2	
26	29.49	749.0	29.58	751.2	57.0	13.9	94	nw.	2	1			10			0.244	6.2	
27	29.59	751.5	29.67	753.7	55.9	13.3	85	calm	0	0			10			0	0	
28	29.69	754.1	29.78	756.3	54.0	12.2	90	calm	0	0			0			0	0	
29	29.72	755.0	29.81	757.2	58.6	14.8	89	calm	0	0			0			0	0	
30	29.73	755.1	29.82	757.3	61.7	16.5	81	e.	2	1			0			0	0	
31	29.87	758.8	29.96	761.0	53.8	12.1	74	calm	0	0			0			0	0	
Mean	29.68	753.8	29.76	756.0	62.8	17.1	83.3						6			3.787	96.2	
September 1	29.74	755.4	29.83	757.6	57.4	14.1	67	calm	0	0			10			0	0	
2	29.90	759.4	29.98	761.6	50.5	10.3	55	calm	0	0			1			0	0	
3	29.78	756.4	29.87	758.6	55.2	12.9	77	calm	0	0			9			0	0	
4	29.53	750.1	29.62	752.3	67.6	19.8	62	calm	0	0			9			0	0	
5	29.76	755.9	29.85	758.1	51.3	10.7	56	calm	0	0			5			0	0	
6	29.72	755.0	29.81	757.2	58.3	14.6	89	calm	0	0			10			0.181	4.6	
7	29.78	756.5	29.87	758.7	53.8	12.1	89	calm	0	0			10			0.071	1.8	
8	29.98	761.4	30.06	763.6	49.1	9.5	87	calm	0	0			0			0	0	
9	29.98	761.4	30.06	763.6	55.8	13.2	89	calm	0	0			1			0	0	
10	30.03	762.8	30.12	765.0	53.8	12.1	91	calm	0	0			0			0.008	0.2	
11	29.98	761.4	30.06	763.6	55.0	12.8	90	calm	0	0			0			0	0	
12	29.86	758.4	29.95	760.6	55.0	12.8	82	calm	0	0			0			0	0	
13	29.94	760.5	30.03	762.7	55.9	13.3	87	calm	0	0			6			0	0	
14	30.07	763.7	30.15	765 9	45.1	7.3	74	calm	0	0			0			0	0	
15	30.08	764.0	30.17	766.2	44.4	6.9	88	calm	0	0			0			0	0	
16	30.04	763.0	30.13	765.2	45.5	7.5	83	calm	0	0			0			0	0	
17	29.89	759.1	29.97	761.3	53.4	11.9	79	calm	0	0			0			0	0	
18	29.84	757.9	29.93	760.1	57.0	13.9	90	calm	0	0			0			0	0	
19	29.87	758.8	29.96	761.0	59.2	15.1	89	calm	0	0			0			0	0	
20	29.86	758.5	29.95	760.7	59.4	15.2	73	se.	4	2			0			0	0	
21	29.81	757.2	29.90	759.4	58.8	14.9	89	e.	7	3			10			0	0	
22	29.78	756.4	29.87	758.6	59.5	15.3	90	se.	2	1			10			0	0	
23	29.69	754.1	29.78	756.3	55.6	13.1	95	calm	0	0			10			0.283	7.2	
24	29.66	753.3	29.74	755.5	48.0	8.9	78	nw.	7	3			10			0.079	2.0	
25	29.71	754.6	29.80	756.8	51.3	10.7	74	calm	0	0			0			0	0	
26	29.83	757.6	29.91	759.8	49.5	9.7	92	calm	0	0			5			0.016	0.4	
27	30.15	765 7	30.23	767.9	39.0	3.9	84	calm	0	0			10			0.012	0.3	
28	30.05	763.3	30.14	765.5	34.9	1.6	73	calm	0	0			10			0	0	
29	29.97	761.2	30.06	763.4	40.1	4.5	68	calm	0	0			10			0	0	
30	30.00	761.9	30.08	764.1	40.1	4.5	84	calm	0	0			0			0	0	
Mean	29.88	758 8	29.96	761.0	52.0	11.1	80.8						5			0.650	16.5	
October 1	29.91	759.6	29.99	761.8	41.9	5.5	85	calm	0	0			0			0	0	
2	29.86	758.5	29.95	760.7	46.9	8.3	81	calm	0	0			10			0	0	
3	29.83	757.6	29.91	759.8	44.8	7.1	74	calm	0	0			10			0	0	
4	29.85	758.1	29.93	760.3	40.5	4.7	90	calm	0	0			10			0.016	0.4	
5	29.87	758.6	29.95	760.8	33.4	0.8	83	calm	0	0			0			0	0	

NIKOLAIEVSK-ON-THE-AMOOR, SIBERIA—CONTINUED.

DATE.	Barometer. Corrected for instrumental error and temperature.		Barometer. Reduced to sea-level		Temperature of the air.		Relative Humidity	Wind. Direction.	Wind. Velocity.		Wind. Force	Clouds. Amount.		Clouds. Direction.		Rainfall or melted snow in past 24 hours.		WEATHER.
												Upper.	Lower.	Up'er	Lo'er			
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles perhour	Metrs prsec.	0–10	0–10	0–10	From	From	Inch.	Mill.	
1882.																		
October 6	29.80	756.9	29.89	759.1	41.2	5.1	69	calm	0	0			10			0	0	
7	29.92	760.0	30.01	762.2	41.2	5.1	90	calm	0	0			10			0.394	10.0	
8	29.93	760.3	30.02	762.5	42.3	5.7	91	n.	2	1			0			0.126	3.2	
9	29.56	750.9	29.65	753.1	43.0	6.1	90	calm	0	0			10			0.205	5.2	
10	29.68	753.8	29.76	756.0	43.0	6.1	76	nw.	7	3			10			1.087	27.6	
11	29.83	757.6	29.91	759.8	38.3	3.5	77	calm	0	0			1			0	0	
12	29.79	756.6	29.87	758.8	36.1	2.3	82	calm	0	0			0			0	0	
13	29.73	755.2	29.82	757.4	42.3	5.7	64	nw.	7	3			10			0	0	
14	29.89	759.1	29.97	761.3	34.7	1.5	64	calm	0	0			10			0	0	
15	29.52	749.9	29.61	752.1	39.4	4.1	80	w.	9	4			10			0	0	
16	29.39	746.6	29.48	748.8	29.8	— 1.2	98	w.	22	10			10			0.031	0.8	
17	29.97	761.1	30.05	763.3	26.6	— 3.0	74	w.	2	1			10			0	0	
18	29.99	761.8	30.08	764.0	22.6	— 5.2	76	calm	0	0			0			0	0	
19	30.02	762.6	30.11	764.8	31.6	— 0.2	70	w.	7	3			10			0	0	
20	29.95	760.8	30.04	763.0	31.3	— 0.4	79	calm	0	0			10			0.205	5.2	
21	29.91	759.8	30.00	762.0	30.6	— 0.8	49	w.	9	4			0			0	0	
22	30.16	766.0	30.24	768.2	28.4	— 2.0	44	w.	4	2			0			0	0	
23	30.17	766.4	30.26	768.6	31.6	— 0.2	79	calm	0	0			10			0	0	
24	30.10	764.6	30.19	766.8	20.8	— 6.2	74	calm	0	0			0			0	0	
25	30.02	762.6	30.11	764.8	23.7	— 4.6	86	calm	0	0			0			0	0	
26	30.01	762.3	30.10	764.5	25.2	— 3.8	82	calm	0	0			10			0	0	
27	29.90	759.5	29.99	761.7	31.6	— 0.2	70	calm	0	0			5			0	0	
28	29.85	758.2	29.94	760.4	30.2	— 1.0	92	calm	0	0			10			0.205	5.2	
29	30.13	765.3	30.22	767.5	23.0	— 5.0	86	calm	0	0			10			0.016	0.4	
30	30.36	771.1	30.45	773.3	7.5	—13.6	83	calm	0	0			0			0	0	
31	30.09	764.2	30.17	766.4	24.4	— 4.2	91	e.	18	8			10			0.008	0.2	
Mean	29.90	759.5	29.99	761.7	33.1	0.6	78.4						6			2.291	58.2	
November 1	29.27	743.5	29.36	745.7	32.4	0.2	96	calm	0	0			10			0.606	15.4	
2	29.91	759.7	30.00	761.9	24.1	— 4.4	59	w.	11	5			10			inap.	inap.	
3	30.01	762.3	30.10	764.5	12.9	—10.6	86	calm	0	0			5			0.012	0.3	
4	29.25	743.0	29.34	745.2	35.8	2.1	85	e.	9	4			10			0.551	14.0	
5	29.54	750.2	29.62	752.4	23.7	— 4.6	81	w.	20	9			10			0.307	7.8	
6	29.35	745.6	29.44	747.8	19.0	— 7.2	78	calm	0	0			10			0.150	3.8	
7	29.41	747.1	29.50	719.3	8.6	—13.0	57	w.	22	10			2			0	0	
8	29.54	750.3	29.63	752.5	3.2	—16.0	62	w.	9	4			0			inap.	inap.	
9	29.72	755.0	29.81	757.2	3.2	—16.0	57	w.	7	3			10			0	0	
10	29.91	759.7	30.00	761.9	3.2	—16.0	47	w.	9	4			0			0	0	
11	30.01	762.3	30.10	764.5	— 4.4	—20.2	68	calm	0	0			0			0	0	
12	30.28	769.2	30.37	771.4	— 3.6	—19.8	62	w.	13	6			0			0	0	
13	30.30	769.7	30.39	771.9	— 3.3	—19.6	56	w.	7	3			0			0	0	
14	30.15	765.9	30.24	768.1	— 3.3	—19.6	62	w.	4	2			0			0	0	
15	29.90	759.5	29.99	761.7	— 6.9	—21.6	56	w.	4	2			0			0	0	
16	29.90	759.4	29.98	761.6	2.8	—16.2	56	w.	7	3			0			0	0	
17	29.82	757.3	29.90	759.5	— 2.6	—19.2	57	calm	0	0			2			0	0	
18	29.82	757.3	29.90	759.5	— 3.3	—19.6	59	calm	0	0			0			0	0	
19	29.66	753.3	29.74	755.5	— 1.5	—18.6	65	calm	0	0			0			0	0	
20	29.60	751.8	29.69	754.0	2.8	—16.2	61	calm	0	0			4			0	0	
21	29.54	750.3	29.63	752.5	7.2	—13.8	92	calm	0	0			10			0	0	
22	29.72	754.8	29.80	757.0	17.6	— 8.0	77	calm	0	0			8			0	0	
23													10			0.031	0.8	
24	29.86	758.5	29.95	760.7	— 2.2	—19.0	76	w.	13	6			10			0	0	
25	29.58	751.3	29.67	753.5	—18.0	—27.8	79	calm	0	0			0			0	0	
26	29.53	750.0	29.61	752.2	—19.5	—28.6	80	calm	0	0			0			0	0	
27	29.63	752.7	29.72	754.9	—10.1	—23.4	58	w.	7	3			0			0	0	
28	29.56	750.8	29.05	753.0	1.4	—17.0	79	calm	0	0			1			0	0	
29	29.02	737.1	29.11	739.3	17.6	— 8.0	83	calm	0	0			10			0.094	2.4	
30	29.11	739.5	29.20	741.7	5.0	—15.0	51	w.	9	4			5			0	0	
Mean	29.69	754.0	29.77	756.2	4.8	—15.1	68.1						4			1.752	44.5	
December 1	29.35	745.6	29.44	747.8	— 1.8	—18.8	76	calm	0	0			0			0	0	
2	29.35	745.4	29.43	747.6	5.0	—15.0	82	calm	0	0			10			0.118	3.0	
3	29.40	746.8	29.49	749.0	— 4.7	—20.4	73	w.	20	9			10			0	0	
4	28.99	736.3	29.08	738.5	— 3.3	—19.6	79	w.	25	11			10			0	0	
5	29.39	746.4	29.47	748.6	— 1.1	—18.4	66	w.	20	9			0			0	0	
6	29.66	753.4	29.75	755.6	— 9.4	—23.0	51	calm	0	0			0			0	0	
7	29.73	756.4	29.87	758.6	—14.1	—25.6	77	calm	0	0			10			0	0	
8	29.87	758.6	29.95	760.8	—17.7	—27.6	70	calm	0	0			0			0	0	
9	29.98	761.6	30.07	763.8	—13.0	—25.0	71	w.	11	5			10			0.0 8	0.2	
10																0.012	0.3	
11	29.50	749.4	29.59	751.6	— 3.3	—19.6	75	w.	18	8			10			0.016	0.4	
12	29.82	757.5	29.91	759.7	— 9.8	—23.2	67	w.	7	3			10			inap.	inap.	
13	29.85	758.2	29.94	760.4	— 6.9	—21.6	71	nw.	13	6			10			0	0	
14	29.77	756.1	29.85	758.3	2.8	—16.2	90	w.	18	8			10			0.126	3.2	
15	30.10	764.5	30.19	766.7	3.2	—16.0	85	calm	0	0			10			0.094	2.4	
16	29.86	758.5	29.95	760.7	— 0.4	—18.0	89	calm	0	0			10			0 094	2.4	
17	29.61	752.1	29.70	754.3	28.4	— 2.0	84	w.	11	5			10			0.189	4.8	
18	29.90	759.5	29.99	761.7	— 1.5	—18.6	77	w.	9	4			10			0.087	2.2	
19	30.11	764.8	30.20	767.0	1.4	—17.0	74	w.	7	3			10			0.039	1.0	
20	30.06	763.6	30.15	765.8	— 6.2	—21.2	72	nw.	4	2			2			0	0	
21	29.92	760.0	30.01	762.2	— 9.0	—22.8	68	calm	0	0			5			0	0	
22	29.66	753.3	29.74	755.5	—13.4	—25.2	70	calm	0	0			10			0	0	
23	29.91	759.8	30.00	762.0	—13.0	—25.0	54	calm	0	0			2			0	0	
24	29.98	761.4	30.06	763.6	—15.2	—26.2	70	calm	0	0			10			0	0	
25	30.00	762.1	30.09	764.3	—28.1	—33.4	73	calm	0	0			3			0	0	
26	29.90	759 5	29.99	761.7	—20.2	—29.0	72	calm	0	0			10			0.047	1.2	
27	30.01	762.2	30.10	764.4	—16.6	—27.0	65	calm	0	0			2			0.039	1.0	
28	29.91	759.6	29.99	761.8	—24.5	—31.4	68	nw.	4	2			0			0	0	
29	29.81	757.2	29.90	759.4	— 4.4	—20.2	61	w.	11	5			0			0	0	
30	29.39	746.6	29.48	748.8	— 3.3	—19.6	75	nw.	11	5			10			0.028	0.7	
31	29.48	748.7	29.56	750.9	—13.0	—25.0	65	w.	11	5			10			0	0	
Mean	29.74	755 5	29.83	757.7	— 7.1	—21.7	72.5						7			0.898	22.8	
1883.																		
January 1	29.39	745.5	29.48	748.7	—12.3	—24.6	73	w.	20	9			10			0	0	
2	29.63	752.5	29.71	754.6	0.3	—17.6	73	w.	18	8			10			0	0	
3	29.87	758.8	29.96	761.0	—10.8	—23.8	66	calm	0	0			0			0	0	
4	29.67	753.6	29.76	755.8	— 2.6	—19.2	51	w.	11	5			4			0	0	
5	29.60	751.7	29.68	753.9	— 4.7	—20.4	60	calm	0	0			0			0	0	
6	29.79	756.6	29.87	758.8	— 4.4	—20.2	74	calm	0	0			0			0	0	
7	29.83	757.6	29.91	759.8	—14.8	—26.6	77	calm	0	0			0			0	0	

NOTE.—The above observations, taken at 7 a. m., Washington time, were received too late for publication in the DAILY BULLETIN, and are given here in full from date of last published report (June 30, 1882). For continuation of this station, see Russian series, DAILY BULLETIN.

REVIEW.

INTERNATIONAL METEOROLOGY.

[*Pressure expressed in inches and millimetres: temperature in degrees, Fahrenheit and Centigrade.*]

The following description refers to chart ii. for the month of January, 1883, issued herewith.

This chart continues the series of international charts begun in January, 1877, and exhibits the mean pressure, mean temperature, and prevailing wind-direction over the northern hemisphere during the above month, as determined from one observation taken simultaneously each day at 7 a. m. Washington, or 0 h. 8 m. p. m. Greenwich, mean time.

For January, 1883, the distribution of mean atmospheric pressure is as follows: the area of barometric minima, which is indicated by the isobar for 29.2 (741.7), occupies southern Greenland and the ocean eastward to western Iceland. The area of barometric maxima, 30.5 (774.7), covers the southern half of the government of Irkootsk, Siberia, and extends southward to the desert of Gobi. The lowest mean pressure reported was 29.13 (739.9), at Ivigtut, Greenland, and the highest was 30.56 (776.2), at Irkootsk, Siberia, being a range of 1.43 inches, or 36.3 millimetres, in the mean pressure for the month. To the southward and eastward of the region of least pressure the barometric gradient rapidly increases, until the isobar for 30.0 (762.0) is reached. That isobar extends from the Gulf of Saint Lawrence southeastward to abont W. 50°, thence eastward along the fortieth parallel to about W. 10°, where it curves to the northeastward and runs along the western coast of Europe to northern Russia. In the United States the pressure is least in the upper lake region, where the means range from 30.05 (763.3) to 30.1 (764.5). In all other parts of the country the means range from 30.15 (765.8) to 30.29 (769.4), the pressure being greatest in California, Nevada, Idaho, and Oregon. In Canada the mean pressure is least in the northern part of the maritime provinces, where it ranges from 30.07 (763.8) to 30.12 (765.0). In central Europe the mean atmospheric pressure ranges from 30.0 (762.0) to 30.1 (764.5). In the southern part of the Italian peninsula it is below 30.0 (762.0). In northern Russia, the Scandinavian peninsula, and the British Isles it ranges from 29.6 (751.8) to 29.95 (760.7). The isobar for 30.3 (769.6) encloses northeastern China. To the eastward the pressure gradually decreases to 30.0 (762.0) in eastern Japan. Over the Atlantic ocean, between N. 40° and 50°, the mean pressure ranges from 29.6 (751.8) to 30.0 (762.0). South of N. 40° it ranges from 30.1 (764.5) to 30.25 (768.3).

Compared with the chart for the preceding month (December, 1882) there has been a decided increase of pressure on the Pacific coast, in the maritime provinces of Canada, and in New England. The pressure has also increased in all other sections of the United States excepting the Rocky mountain districts, where it is slightly below that of the preceding month. Over the Atlantic ocean, north of the forty-fifth parallel, the pressure has decreased about .3 inch. South of the above-mentioned parallel there has been an increase of pressure.

In Europe the increase of pressure has averaged .15 inch throughout the continent, except in the Scandinavian peninsula, where a decrease of about .02 inch is shown. In eastern Asia and in Hindostan the pressure has remained unchanged; in other parts of Asia it has decreased.

Compared with the corresponding month of previous years, the atmospheric pressure for January, 1883, was above the normal over the United States and Canada. The districts of greatest excess were the north Pacific coast region, New England, and the Canadian maritime provinces. In Europe the atmospheric pressure was below the normal of the last six years, as shown in the table below.

The following table shows the mean pressure and mean temperature, with corresponding departures, for January, 1883, in the several countries of the eastern hemisphere, compared with the means as determined from observations taken during the last six years:

Countries.	Mean pressure.			Mean temperature.		
	Jan. mean of 6 (1877-'82) years.	Jan., 1883.	Departure.	Jan. mean of 6 (1877-'82) years.	Jan., 1883.	Departure.
				°	°	°
Algeria	30.18	30.15	— 0.03	56.8	57.5	+ 0.7
Austria	30.19	30.12	— 0.07	33.1	32.2	— 0.9
British Isles	30.04	29.83	— 0.21	40.3	43.4	+ 3.1
Denmark	30.05	29.97	— 0.08	32.0	32.9	+ 0.9
France	30.16	30.03	— 0.13	41.7	44.0	+ 2.3
Germany	30.13	30.06	— 0.07	32.1	34.0	+ 1.9
India[a]	29.95	30.00	+ 0.05	72.8	70.5	— 2.3
Italy	30.11	30.02	— 0.09	49.0	45.4	— 3.6
Norway	29.84	29.79	— 0.05	30.0	30.6	+ 0.6
Portugal	30.19	30.18	— 0.01	51.7	52.9	+ 1.2
Russia	30.12	30.10	— 0.02	22.4	15.6	— 6.8
Spain	30.18	30.10	— 0.08	52.3	52.0	— 0.3
Sweden	29.91	29.92	+ 0.01	25.4	23.2	— 2.2

[a] Mean for five years only.

The accompanying table shows the deviations in pressure and temperature at isolated stations during the month of January, 1883, as compared with the means for six years:

Stations.	Mean pressure.			Mean temperature.		
	Jan. mean of 6 (1877-'82) years.	Jan., 1883.	Departure.	Jan. mean of 6 (1877-'82) years.	Jan., 1883.	Departure.
				°	°	°
Gibraltar	30.17	30.17	normal	59.7	59.3	— 0.4
Malta, Mediterranean Sea	30.07	29.97	— 0.10	59.3	58.8	— 0.5
Sandwick Manse, Orkney Islands	29.93	29.65	— 0.28	39.0	40.1	+ 1.1
Bridgetown, Barbadoes	30.01	30.04	+ 0.03	80.0	79.5	— 0.5
Cape Town, Cape Good Hope	29.97	.....	.....	79.2	.....	.....
Fort Napier, Natal, South Africa	29.80	29.80	normal	78.3	77.0	— 1.3
Freetown, Sierra Leone	29.89	.....	.....	86.0	.....	.....
Mauritius, Indian Ocean	29.95	29.89	— 0.06	81.5	81.3	— 0.2
Melbourne, New South Wales	29.96	30.01	+ 0.05	62.7	63.9	+ 1.2
Nassau, Bahamas[a]	30.16	30.20	+ 0.04	71.2	71.7	+ 0.5
Godthaab, Greenland	29.50	29.21	— 0.29	15.6	13.8	— 1.8
Stykkisholm, Iceland	29.59	29.18	— 0.41	28.2	31.1	+ 2.9
Thorshavn, Färöe Islands	29.76	29.56	— 0.20	38.3	41.0	+ 2.7
Zi-Ka-Wei, China	30.39	30.35	— 0.04	34.9	33.8	— 1.1
Athens, Greece	30.11	30.02	— 0.09	52.3	52.0	— 0.3
Cagliari, Sardinia, Italy*	30.11	29.96	— 0.15	54.8	54.9	+ 0.1
Tokei, Japan	30.07	30.03	— 0.04	35.3	36.2	+ 0.9
Angra, Azores†	30.04	30.12	+ 0.08	57.6	57.9	+ 0.3
Funchal, Madeira Islands	30.19	30.24	+ 0.05	64.7	65.3	+ 0.6
Ponta Delgado, Azores	30.10	30.16	+ 0.06	60.5	60.6	+ 0.1
Archangel, Russia	29.80	29.87	+ 0.07	9.0	6.4	— 2.6
Tiflis, Russia	30.20	30.23	+ 0.03	39.3	34.3	— 5.0
Astrakhan, Russia	30.21	30.26	+ 0.05	25.2	17.8	— 7.4
Ekaterinburg, Russia	30.12	30.04	— 0.08	5.8	0.5	— 5.3
Tashkend, Toorkistan, Asia	.....	.....	.....	.....	.....	.....
Barnaul, Siberia, Asia	30.42	30.38	— 0.04	1.6	1.9	+ 0.3
Yeniseisk, Siberia, Asia	30.40	30.36	— 0.04	— 7.7	— 4.7	+ 3.0
Pekin, China	30.40	30.40	normal	22.4	23.7	+ 1.3
Nikolaevsk on the Amoor, Asia	.....	30.00	.....	— 7.3	—12.6	— 5.3
San Juan de Puerto Rico, W. I.[a]	30.07	30.13	+ 0.06	75.1	76.1	+ 1.0
Beirut, Turkey in Asia	30.12	29.99	— 0.13	59.7	60.8	+ 1.1
Mexico, Mexico	.....	30.33	.....	.....	45.0	.....
Havana, Cuba, W. I.[a]	30.11	30.10	— 0.01	71.5	67.5	— 4.0
Paramaribo, D. Guiana, S. A	30.00	30.05	+ 0.05	78.6	77.1	— 1.5
York Factory, B. A	30.00	30.07	+ 0.07	—25.3	—28.9	— 3.6

* Mean for five years only. † Mean for four years only.

The mean temperature of the air was below the normal in all districts of the United States except in Florida and in southern California, where it was slightly above. The greatest departures occurred in Minnesota, Dakota, and Wisconsin, where the temperature was about 11° (6° Cent.) below the normal. In Canada the temperature was below the normal. In Europe the mean temperature was above the normal in the central and western, and slightly below in the southern, districts. In Hindostan the temperature was 2°.3 below the five years' mean. The highest temperature reported was 81°.8 Fahr. (27°.7 Cent.), at Trichinopoly, and the lowest was 60°.6 Fahr. (15°.9 Cent.), at Sibsagar and Lahore.

The following are some of the extreme mean temperatures reported at isolated stations:

Highest.	Fahr.	Cent.	Lowest.	Fahr.	Cent.
	°	°		°	°
Zanzibar, East Africa	85.2	29.6	York Factory, B. A	—28.9	—33.8
Mauritius, Indian Ocean	81.3	27.4	Ooglaamie, Alaska	—20.4	—29.1
Saint Paul de Loando, W. Africa	79.7	26.5	Nikolaevsk on the Amoor	—12.6	—24.8
Bridgetown, Barbadoes	79.5	26.4	Yeniseisk, Siberia	— 4.7	—20.4
Batavia, Island of Java	78.3	25.7	Upernavik, Greenland	— 4.4	—20.2
Puerto Berrio, D. Guiana	77.6	25.3			

In the United States the prevailing winds were mostly from north, by west to southwest, except on the Pacific coast, where they were generally southerly. In Canada the winds were northerly and westerly. Over the north Atlantic ocean the winds were as follows: north of the thirtieth parallel and from W. 70° eastward to W. 35°, mostly northwesterly. Between N. 40° and 60° and W. 35° and 10° they were northwesterly, southeasterly, and southwesterly, the latter direction predominating. South of N. 30° northeasterly winds prevailed. In Europe the winds were from east to southeast and southwest in the central and northern districts, and were variable in the southern section. In Japan the winds were mostly westerly and northwesterly.

The rainfall during January 1883, was considerably above the average in the eastern part of the United States. In the upper Mississippi and Ohio valleys, and over all the country west of the hundredth meridian, the precipitation was less than the average. In Canada it was generally below the average. In Europe the rainfall was normal or slightly below the normal.

GENERAL REMARKS.

All data which appear in the DAILY BULLETIN OF SIMULTANEOUS METEOROLOGICAL OBSERVATIONS are copied from the regular exchanges of this office. The barometer readings for land stations, in the first and second columns, are reduced to freezing and their respective standards; those in the third and fourth columns to sea-level. When necessary, corrections for instrumental error, temperature, and reduction to sea-level are always applied, while those for instrumental error, only when such corrections can be ascertained with close approximation, as by comparison when vessels are at or near land stations. Relative humidity generally requires computation from the hygrometrical observations. When rain has fallen, but neither the amount nor duration is recorded, the word "blank" is published in the rainfall column. The weather is generally published as given. The following symbols and abbreviations are common to all series, viz: †, aneroid; *, instrumental error not known; c, cirrus; k, cumulus; s, stratus; n, nimbus; d, scud; f, fracto; p, pallio; hz, haze; fg, fog; sk, smoke; inap, inappreciable; d. clouds, detached clouds. The movement of the air is published as given on the originals, when indicated by velocity in miles per hour, in meters per second, or by force, all variations of the latter being reduced to the common scale of 0 to 10. Those stations reporting the movement in pounds pressure per square foot are reduced to force on the common scale, and those in kilometers per hour, to meters per second and miles per hour. The distinction between upper and lower clouds is carefully made in the United States and a portion of the Canadian series, and the various formations are indicated by the letters above given and their combinations. In the MONTHLY SUMMARY OF INTERNATIONAL SIMULTANEOUS METEOROLOGICAL OBSERVATIONS the position of stations (latitude and longitude) are obtained from Keith Johnson's "Index Geographicus," except where more exact information is furnished. The elevation of stations are obtained either from the annual, semi-annual, and monthly publications of the various meteorological bureaus here represented, or from the original forms, upon which are entered the daily observations. In the United States series the elevations are computed from the latest surveys, and are carefully revised each month, in order to note any change in the elevation of the barometer-cistern at any station. It is believed for the most part that, throughout the European and other series, the elevations as given represent the height of the barometer-cistern above sea-level; at least, this should be the case. The local time, where omitted or not given correctly in the original, is carefully computed at this office. A letter placed opposite the name of a station or some portion of the data credited thereto, indicates that a certain number of observations are missing, corresponding to the relative position in the alphabet of the letter so used.

INTERNATIONAL CHARTS ACCOMPANYING DAILY BULLETIN AND MONTHLY SUMMARY.

International chart i. shows isobars and isotherms charted from data as appearing in the INTERNATIONAL BULLETIN of same date, as reported by the several observers. Isobars, in continuous lines, exhibit atmospheric pressure at sea-level in English inches; isotherms, in dotted lines, exhibit temperature of the air in degrees, Fahrenheit, similarly charted.

International chart ii. (monthly mean chart), showing mean pressure at sea-level in English inches, mean temperature in degrees, Fahrenheit, mean force and prevailing direction of wind at 7 a. m., Washington mean time.

International chart iii. shows tracks of centres of low barometer. The Arabic numerals show location of the centres of low barometer at 7 a. m., Washington mean time, of that date.

In the above charts, broken lines indicate that the lines so drawn are doubtful.

Arrows show direction of, and fly with, the wind. Force is shown as follows:

Symbols.	Force.	Velocity. Miles per hour.	Velocity. Metres per second.
○	0	0	0
→	1, 2	0 to 9	0 to 4
→	3, 4	9.1 to 22.5	4.1 to 10.1
→	5, 6	22.6 to 40.5	10.1 to 18.1
→	7, 8	40.6 to 67.5	18.1 to 30.2
→	9, 10	67.6 up.	30.2 and over.

The following remarks relate to the individual peculiarities in the *methods* of recording and the *times* of taking the international simultaneous meteorological observations, under the auspices of the various meteorological bureaus:

ALGERIAN SERIES (furnished by co-operation of General Maritz, Commandant Supérieur du Génie in Algeria).—The originals give the barometer in millimetres reduced to sea-level; temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 10. The rainfall is measured at 7 a. m., local time, and the amount indicated in millimetres.

AUSTRALIAN SERIES (furnished by co-operation of R. L. J. Ellery, Director of the Observatory at Melbourne, N. S. W.).—At Melbourne the conversions are published as given in the originals. The movement of the air is indicated by velocity in miles per hour.

AUSTRO-HUNGARIAN SERIES (furnished by co-operation of Prof. Dr. Julius Hann, Director of the Imperial and Royal Central Meteorological Institute at Vienna).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. At the following stations rainfall is measured at local time: Lemburg, 7 p. m.; Vienna, 2 p. m.; Trieste, 7 a. m. The weather is given by the Vienna symbols or in general terms.

BRITISH SERIES (furnished by co-operation of the Meteorological Council, London, Robert H. Scott, Esq., F. R. S., Secretary, and respective observers).—In general the originals do not give rainfall or distinction between upper and lower clouds. Relative humidity, except for Bradford and Silloth Rectory, is not given on the originals, but is computed from hygrometrical observations. At Cardington, Oxford, and Sandwick Manse the barometers are given as read off. At Greenwich the movement of the air is indicated by pounds pressure per square foot. At the following stations rainfall is measured at local time: Bradford, 9 a. m., and Aberdeen, 10 a. m. The wind direction is given to 32 points and weather by the Beaufort notation.

CANADIAN SERIES (furnished by co-operation of Charles Carpmael, A. M., F. R. A. S., Director of the Magnetic Observatory at Toronto and Superintendent of the Meteorological Office of the Dominion of Canada, and respective observers).—The originals give the barometer reduced to sea-level in English inches and the temperature in Fahrenheit. Meteorological reports from stations marked with a * are telegraphed daily to the office of the Chief Signal Officer of the Army.

CAPE COLONY SERIES (furnished by co-operation of the Meteorological Commission of Cape Colony, Cape Town, and respective observers).—At Cape Town the barometer is given on the original as corrected for temperature only. Upper and lower clouds are given on a scale of 0 to 10, and the kind occasionally indicated by abbreviating Poëy's classification.

CHINESE SERIES (furnished by co-operation of Marc Dechevrens, S. J., Director of the Meteorological Observatory at Zi-Ka-Wei).—At Zi-Ka-Wei the originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is given in metres per second and the direction to 16 points. The kind of clouds is occasionally given, and the degree of cloudiness on the scale of 0 to 10; distinction between upper and lower clouds is sometimes made. The weather is given in general (French) terms. The rainfall is given in millimetres and measured at the moment of simultaneous observation. Tchang-kia-tchouang, the original gives barometer in millimetres reduced to sea-level, temperature in Centigrade, velocity in kilometres for past 3 hours 53 minutes, clouds on scale of 0–10, no distinction between upper and lower.

DANISH SERIES (furnished by co-operation of Captain N. Hoffmeyer, Director of the Royal Danish Meteorological Institute at Copenhagen).—The originals give the barometer in millimeters reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 6. The weather is occasionally given by the Vienna symbols, but it is not certain that they always refer to the moment of simultaneous observations, except at Copenhagen. No distinction is made between upper and lower clouds, and the direction of movement, together with the rainfall, is entirely omitted. At Jacobshavn and Upernavik, the observations are taken at 8 a. m., instead of 8.44 and 8.24 a. m., respectively.

FRENCH SERIES (furnished by co-operation of the Central Meteorological Office of France, Professor E. Mascart, Director, and respective observers).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 6, except in metres per second for Mont Louis and Perpignan. In general the rainfall is measured at 9 a. m., local time. The direction of upper and lower clouds is given, but no distinction is made as to kind. The degree of cloudiness is given on a scale of 0 to 4 at Clermont-Ferrand and Puy de Dome, while at other stations the scale of 0 to 10 is employed, or general weather terms, from which the amount of cloudiness is inferred. The weather is given in general terms, except occasionally by the Vienna symbols at Mont Louis and Perpignan. At Besançon the observations are taken at at midday instead instead of 0.32 p. m.

GERMAN SERIES (furnished by co-operation of Prof. Dr. G. Neumeyer, Director of the German Marine Observatory at Hamburg).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 10. The kind of clouds is occasionally given, but no distinction is made between upper and lower; the amount is given on a scale of 0 to 10, but the kind is rarely given. The weather is given in Vienna symbols or in general terms.

GREEK SERIES (furnished by co-operation of Prof. Dr. J. F. Julius Schmidt, Director of the Royal Observatory at Athens).—The originals give the barometer corrected for temperature only and the thermometer in Centigrade. Hygrometrical observations are not given. The kind of clouds is occasionally given, and the amount is inferred from the general weather terms. The movement of the air is indicated by force on a scale of 0 to 10.

INDIAN SERIES (furnished by co-operation of H. F. Blanford, Meteorological Reporter to the Government of India at Calcutta).—The barometric observations refer to the Calcutta standard, which requires a correction of —0.011 inch, or 0.28 mm., as compared with the Kew standard. The wind-velocity given is the average rate of wind since the observation of the preceding day. All conversions are published as given in the originals, where the data are recorded to an additional decimal. The weather is given by the Beaufort notation, Vienna symbols, or special symbols.

ITALIAN SERIES (by authority of the Minister of Agriculture, Industry, and Commerce—furnished by co-operation of Professor P. Tacchini, Director of the Central Meteorological Office at Rome, and respective observers).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by velocity in kilometres per hour, or by force on a scale of 0 to 4, as at Mondovi, Florence, and Cagliari. No distinction is made between upper and lower clouds, and the amount is given on a scale of 0 to 10.

JAPANESE SERIES (furnished by co-operation of I. Arai, Director of the Imperial Meteorological Observatory at Tokei).—The rainfall is measured at 9.30 a. m., local time, and the conversions are all published as given in the originals. Distinction is generally made between upper and lower clouds, and the amount is given on a scale of 0 to 10. The weather is given in general terms.

MAURITIUS SERIES (furnished by co-operation of C. Meldrum, Secretary of the Meteorological Society of Mauritius).—All conversions are published as given in the originals. The direction of the wind is given to 64 points, and the rainfall is measured at 9.30 a. m., local time.

MEXICAN SERIES (by authority of the Secretary of Public Works—furnished by co-operation of Señor Mariano Barcena, Director of the Central Meteorological Observatory in the City of Mexico, and respective observers).—All conversions are published as given in the originals, but when an evident mistake has been made the data is queried at this office. The kind of clouds is given, and also the direction and amount of both upper and lower. The degree of cloudiness is indicated on a scale of 0 to 10. Rainfall is generally measured at 6 a. m., local time.

NETHERLANDS SERIES (furnished by co-operation of Professor Buys Ballot, Director of the Royal Meteorological Institute of the Netherlands at Utrecht).—The originals give the barometer in millimetres reduced to sea-level and the temperatures in Centigrade. The movement of the air is indicated by pressure in kilograms per square metre, except at Hellevoetsluis, which gives force on a scale of 0 to 12. The humidity is not given on the originals, but for two stations it is computed from the hygrometrical observations. The weather is only given for Utrecht, from which the amount of cloudiness at that station is inferred.

NORWEGIAN SERIES (furnished by co-operation of Professor H. Mohn, Director of the Royal Norwegian Meteorological Institute at Christiania).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade The movement of the air is indicated by velocity in metres per second or by force on a scale of 0 to 6. The weather is occasionally given by Vienna symbols. At Bergen observations upon the weather and degree of cloudiness are made at 2 p. m., local time. At Brono the observations are taken at 2 p. m., instead of 12.57 p. m.

PORTUGUESE SERIES (furnished by co-operation of J. C. de Brito Capello, Director of the Meteorological Observatory of the Infante Dom Luiz at Lisbon).—In the originals the barometer is given in millimetres and the temperature in Centigrade. The movement of the air is indicated by velocity in kilometres per hour. The weather is occasionally given by the Vienna symbols. The rainfall is measured at noon each day.

RUSSIAN SERIES (furnished by co-operation of Professor H. Wild, Director of the Imperial Central Physical Observatory of Russia at St. Petersburg).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by velocity in meters per second. No distinction is made between upper and lower clouds; the amount is given on a scale of 0 to 10, and the kind occasionally. The weather is occasionally given by the Vienna symbols. At Astrakhan, Ashurada and Baku, the barometer-cistern is below sea-level.

SCOTTISH SERIES (furnished by co-operation of Alexander Buchan, M. A., F. R. S. E., Secretary of the Scottish Meteorological Society at Edinburg, and respective observers).—The originals give the barometer as read off and the movement of the air is indicated by force on a scale of 0 to 6. Distinction is made between upper and lower clouds as to degree, and the amount of cloudiness is given on a scale of 0 to 10. The direction of upper clouds is given separately. The rainfall, temperature, and humidity are not given at North Unst. The wind direction is given to 32 points.

SPANISH SERIES (furnished by co-operation of the Royal Observatory at Madrid, and respective observers).—The movement of the air, except for sub-series, is given in kilometres per hour. The kind of clouds is occasionally given, and the degree of cloudiness on a scale of 0 to 10. The rainfall at San Juan is measured at 4 p. m., local time, and at San Fernando at midnight. The weather is given in general (Spanish) terms.

SWEDISH SERIES (furnished by co-operation of Professor R. Rubenson, Director of the Royal Swedish Meteorological Institute, and of Professor H. H. Hildebrandsson, Director of the Meteorological Observatory of the Upsala University).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 6, except in metres per second for Upsala. The kind of clouds is not given, but the degree of cloudiness is indicated on a scale of 0 to 10. The rainfall is measured at 8 a. m., local time, and the weather is occasionally given by the Vienna symbols.

SWISS SERIES (furnished by co-operation of Professor E. Plantamour, Director of the Observatory at Geneva).—The originals give the barometer in millimetres, corrected for temperature only, and the thermometer in Centigrade. The movement of the air is indicated by force on a scale of 0 to 10.

TURKISH SERIES (furnished by co-operation of A. Coumbary, Effendi, Director of the Central Observatory at Constantinople, and of Professor C. V. A. van Dyck, Superintendent of the Lee Observatory at Beirut).—The originals give the barometer in millimetres reduced to sea-level. The temperature is given in Centigrade. The movement of the air is indicated by force on a scale of 0 to 7 for Valona, and on a scale of 0 to 12 for Beirut. At Constantinople the velocity is given in meters per second. The kind of clouds is not given, but the amount is indicated on a scale of 0 to 10, except at Valona, at which station it is inferred from the general weather terms.

UNITED STATES SERIES (by authority of the Secretary of War—furnished by co-operation of W. B. Hazen, Brigadier and Brevet Major General, Chief Signal Officer, U. S. Army).

UNITED STATES SUB-SERIES (furnished by co-operation of the respective observers).—The originals generally give the barometer reduced to sea-level and the temperature in Fahrenheit. At Bogota and Navassa the barometer is corrected for temperature only; at Puerto Berrio, is given as read off, and at Rivas is omitted. The movement of the air is generally indicated by velocity in miles per hour, except on a scale of 0 to 10 for Bogota, Paramaribo, and Rivas, and 0 to 12 for Puerto Berrio. The wind direction is generally given to 16 points, except 8 points for Bogota and 32 points for Rivas. At Rivas the humidity is obtained by readings from Saussure's hygrometer.

BRITISH NAVAL SERIES (furnished by co-operation of the Meteorological Council, London, Robert H. Scott, Esq., F. R. S., Secretary).—The originals give the barometer as read off. The wind direction is given to 32 points. The movement of the air is indicated by force on a scale of 0 to 12. The distinction between upper and lower clouds is made as to direction, but not as to amount. The height of the sea-disturbance is given on a scale of 0 to 9, and the weather by the Beaufort notation. The direction of movement of wind, clouds, and sea is compass direction, corrected only for deviation caused by the iron in the ship, while the correction for magnetic variation is applied at this office. The humidity is not given, but is computed from the hygrometrical observations.

PORTUGUESE NAVAL SERIES (furnished by co-operation of J. C. de Brito Capello, Director of the Meteorological Observatory of the Infante Dom Luiz at Lisbon).—The originals give the barometer in millimetres, corrected for temperature only, and the thermometer in Centigrade. The movement of the air is indicated by force on a scale of 0 to 10. The humidity is not given, but is computed from the hygrometrical observations. The kind of clouds is not given, but the amount is indicated on a scale of 0 to 10; the direction of movement is given without distinction between the upper and lower. The height of sea disturbance is given on a scale of 0 to 9 and the weather by the Beaufort notation. The rainfall is not measured, but the duration is generally given in hours and minutes.

SWEDISH NAVAL SERIES (furnished by co-operation of E. Malmburg, Director of the Nautical Meteorological Bureau at Stockholm).—The originals give the barometer as read off. The movement of the air is indicated by force on a scale of 0 to 12, and the direction is corrected for magnetic variation at this office. The humidity is not given, but is computed from the hygrometrical observations. The rainfall is omitted. The height of the sea-swell is given on a scale of 0 to 9 and the weather by the Beaufort notation.

UNITED STATES NAVAL SERIES (by authority of the Secretary of the Navy—furnished by co-operation of the Navy Department, through Commodore John G. Walker, U. S. N., Chief of Bureau of Navigation).—The originals

give the barometer as read off. The humidity is not given, but is computed from the hygrometrical observations. The sea-swell and weather are given in general terms. The direction of the wind is compass direction, corrected for variation.

MERCHANT-MARINE SERIES (furnished by co-operation of the owners, agents, &c., of the respective lines and vessels).—Same as U. S. Naval.

OCEAN SQUARES.—The table of ocean square data shows (1) the location of the centres of squares whose sides extend 5° each in latitude and longitude, (2) the monthly mean pressure and temperature of the air, and the mean force and total frequency of the wind at 7 a. m., Washington time, computed for the centre of each square from daily readings as obtained by interpolation between the isobars and isotherms of the daily international simultaneous weather maps.

ERRATA.

DAILY BULLETIN, October 1st, 1881, page 3, Danish series, Godthaab, reduced barometer, 30.16 inches, should read 29.16.

January 1st, 1883, page 8, sch. "Wm. Wiler," Saint Johh's river, should read Saint John's river.

7th, page 5, Smith, Fort, Arkansas, humidity, 74, should read 94.

13th, page 3, Italian, Pesaro, humidity, 53, should read 93.

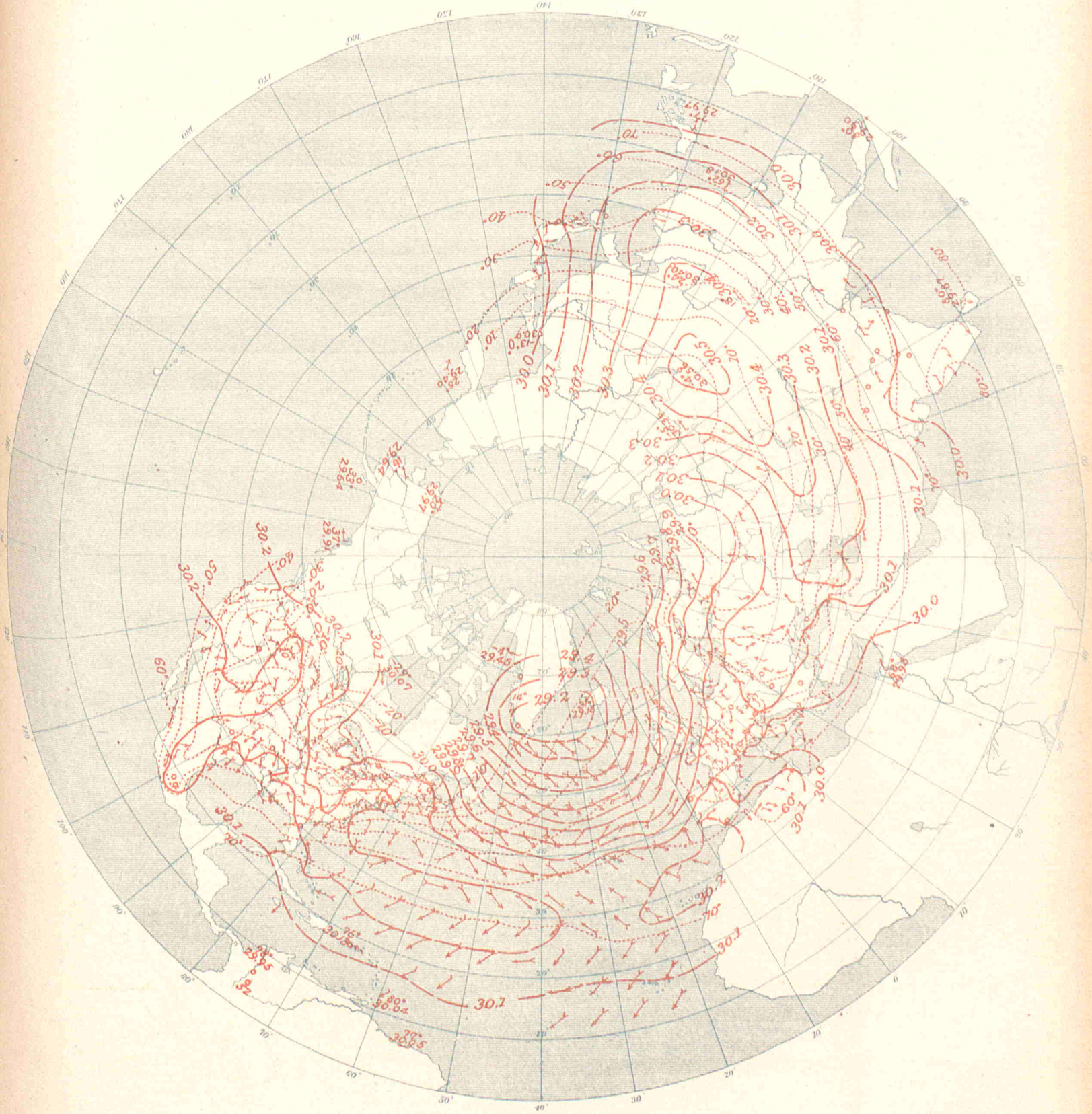
22d, page 2, French, Rouen, actual barometer, 30.21 inches, should read 30.41.

25th, page 3, Mauritius, temperature, 57°.9 Fahr., 14°.4 Cent., should read 81°.8 Fahr., 27°.7 Cent.; Italian, Florence, humidity, 86, should read 66.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

W. B. HAZEN,
Brig. & Bvt. Maj Gen'l,
Chief Signal Officer, U. S. A.

International Chart II. January, 1883. Isobars, Isotherms, and Winds.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B. Hazen, Chief Signal Officer.

WAR DEPARTMENT,
OFFICE OF THE CHIEF SIGNAL OFFICER OF THE ARMY OF THE UNITED STATES.

BULLETIN

OF

INTERNATIONAL METEOROLOGY

FOR THE MONTH OF FEBRUARY, 1883.

PRINTED FOR EXCHANGE WITH CO-OPERATING OBSERVERS.

WASHINGTON, D. C.:
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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FERBUARY 1, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.18	766.5	61.2	16.2	83	e.	.....	.....	4	.....	2	.....	.....	0	0	fair	Malaterre.
Algiers	.....	.....	30.03	762.7	56.5	13.6	54	wnw.	.....	.....	7	.....	4	.....	.....	0.340	8.8	cloudy	Thève.
La Calle	.....	.....	29.83	757.7	54.7	12.6	80	nw.	.....	.....	4	.....	4	.....	.....	0.270	7.0	cloudy	Fonfréde.
Tunis	.....	.....	29.86	758.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.13	765.2	50.4	10.2	79	nw.	.....	.....	2	.....	2	.....	.....	0.185	4.7	fair	Pérès.
Tebessa	.....	.....	30.01	762.3	50.4	10.2	70	nnw.	.....	.....	5	.....	1	.....	.....	0	0	very fair	Dognon.
Geriville	.....	.....	.....	.....	49.3	9.6	44	nne.	.....	.....	4	.....	2	.....	.....	0.118	3.0	fair	Forfert.
Laghouat	.....	.....	30.15	765.7	55.4	13.0	25	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.06	763.5	61.2	16.2	33	nw.	.....	.....	7	.....	4	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.85	758.2	29.94	760.5	62.0	16.7	70	ssw.	12	5.4	.....	.....	10	.....	.....	0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.11	739.4	29.67	753 5	45.9	7.7	46	se.	.....	.....	2	.....	8	.....	.....	inap.	Inap.	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	28.98	736.2	29.76	755.9	42.8	6.0	78	nne.	3.1	1.4	.....	.....	2	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	28.95	735.4	29.85	758.3	40.3	4.6	74	calm	.....	.....	0	cs	8 s	...	...	0	0	.....	Julius Mikolik.
Gratz	28.45	722.5	29.72	755.0	38.5	3.0	77	n.	.....	.....	1	.....	10	.....	.....	0.122	3.1	.....	Andreas Rospini.
Hermannstadt	28.39	721.2	29.85	758.1	41.7	5.4	69	se.	.....	.....	2	.....	5	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.16	715.2	29.51	749.5	41.5	5.3	89	ese.	.....	.....	2	.....	10	.....	.....	0	0	gloomy	The Staff.
Lemberg	28.87	733.4	29.89	759.2	38.3	3.5	58	s.	.....	.....	1	.....	1	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.39	670.2	29.84	757.8	34.5	1.4	78	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	29.46	748.3	29.58	751.2	53.2	11.8	78	ese.	.....	.....	3	.....	10	.....	.....	0.209	5.3	.....	I. R. Hydrographic Office.
Szathmar	29.36	745.8	29.82	757.4	41.0	5.0	75	e.	.....	.....	1	.....	9	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.47	748 6	29.76	755.8	48.9	9.4	44	s.	.....	.....	4	.....	4	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.50	749.4	29.60	751.9	45.9	7.7	74	se.	.....	.....	1	.....	10	.....	.....	0.087	2.2	.....	Royal Academy.
Vienna	29.00	736.5	29.73	755.1	39.2	4.0	77	se.	.....	.....	2	.....	2	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.36	745.7	29.46	748.3	38.7	3.7	69	s.	14	6.3	.....	.....	3	.....	.....	0.325	8.3	blue sky	W. Boswell
Armagh, Observatory	29.17	740.9	29.41	747.0	34.6	1.4	75	s.	8	3.6	.....	.....	7	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.49	749.0	33.5	0.8	85	se.	19	8.5	.....	.....	7	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	28.96	735.6	29.50	749.3	32.6	0.3	91	sse.	6	2.7	.....	.....	10	.....	.....	.....	.....	foggy	Thomas Mackereth.
Bradford, Yorkshire	29.10	739.1	29.50	749.3	33.7	0.9	85	se.	.....	.....	1	.....	10	.....	.....	0.22	5.6	overcast	McLandsborough&Preston
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	76.0	24.4	90	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C.
Oardington	.....	.....	.....	.....	37.4	3.0	95	w.	.....	.....	0.4	.....	9	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.41	747.0	29.54	750.3	41.1	5.1	79	calm	.....	.....	0	.....	3	.....	.....	.....	.....	misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.24	742.7	29.47	748.5	44.0	6.7	71	sse.	.....	.....	3	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.57	700.3	29.80	756.9	84.0	28.9	56	calm	.....	.....	0	.....	3	.....	.....	.....	.....	blue sky	Corpl. F. Milner, A. H. C.
Freetown	29.57	751.1	29.80	756.9	87.0	30.6	91	nw.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	29.27	743.4	29.31	744.5	30	2.2	80	s.	.....	.....	3	.....	8	.....	.....	0.20	5.1	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.10	764.5	30.16	766.1	57.5	14.2	96	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	gloomy	Sgt. F. Norris, A. H. C.
Glasgow, Observatory	29.12	739 6	29.32	744.7	37.0	2.8	80	sse.	.....	.....	3	.....	6	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst
Greenwich, Royal Obs'y	29.38	746.2	29.56	750.8	33.2	0.7	96	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	foggy	The Staff.
Guernsey	29.29	744.0	29.59	751.6	40	7.8	69	sw.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S
Kew, Observatory	29.54	750.3	29.58	751.3	33.8	1.0	97	nnw.	5	2.2	.....	.....	fg	.....	.....	.....	.....	foggy	The Staff.
Leicester, Museum	29.28	743.7	29.55	750.6	33.5	0.8	95	nw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.68	753.9	29.76	755.9	59.8	15.4	83	w.	.....	.....	2	.....	7	.....	.....	0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.14	765.5	30.18	766.6	74.0	23.3	85	ne.	.....	.....	1	.....	7	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.98	736.1	29.52	749.8	31.9	— 0.1	99	sse.	.....	.....	3	.....	10	.....	.....	.....	.....	misty	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.33	745.0	29.56	750.8	32.6	0.3	100	calm	.....	.....	0	.....	10	.....	.....	.....	.....	foggy	The Staff.
Plymouth	29.42	747.3	29.49	749.0	43.0	6.1	83	se.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.26	743.2	29.36	745.7	35.8	2.1	90	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.93	760.2	29.99	761.7	51.8	11.0	50	sse.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	W. H. Lyne.
Sheffield	29.24	742.7	29.52	749.8	37.5	3.1	85	s.	.....	.....	1	.....	1	.....	.....	0.34	8.6	blue sky	W. F. Cooper.
Siloth Rectory	29.42	747.3	29.44	747.8	30.4	2.4	86	se.	.....	.....	2	.....	8	.....	.....	0.130	3.3	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.50	749.3	33.5	0.8	84	s.	5	2.2	.....	.....	10	.....	.....	.....	.....	misty	Rev. S. J. Perry.
Stratfield Turgiss	29.38	746.2	29.60	751.8	33.8	1.0	98	w.	.....	.....	0.1	.....	10	.....	.....	.....	.....	foggy	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	29.25	742.9	29.28	743.7	45	7.2	84	se.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.18	741.2	29.20	741.7	40.7	4.8	73	e.	27	12.1	.....	.....	10	.....	.....	.....	.....	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.44	747.8	29.83	757.7	54.0	12.2	71	w.	24.8	11.1	.....	o	5 n	.....	w.	0.354	9.0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	9	—12.8	.....	calm	o	o	.....	o	o	.....	.....	o	o	blue sky	Hon. J. Fergusen.
Charlottetown, P. E. Island	29.70	754.4	29.74	755.4	34	1.1	83	w.	30	13.4	.....	.....	10 n	.....	calm	0.174	4.4	cloudy	H. J. Caudall, C. E.
Chatham, N. B*	29.71	754.6	29.78	756.4	23	— 5.0	48	sw.	8	3.6	.....	o	o	.....	.....	0.41	10.4	clear	G. A. Blair.
Cornwall	29.72	754.9	29.93	760.2	18.4	— 7.6	90	w.	.....	.....	3	o	3 s	.....	.....	0.10	2.5	blue sky	Jas. Smith, M. A.
Dalhousie	29.68	753.9	29.73	755.1	22.0	— 5.6	.....	w.	.....	.....	1	.....	10 s	.....	.....	0.15	3.8	overcast	H. A. Johnson.
Father Point, Quebec*	29.65	753.1	29.07	753.6	20	— 6.7	91	sw.	25	11.2	.....	o	5 k	.....	w.	0.10	2.5	fair	J. McWilliams
Fort Garry, Manitoba*	29.61	752.1	30.05	778.5	—35	—37.2	100	n.	13	5.8	.....	o	o	.....	.....	o	o	clear	James Stewart
Fredericton	29.82	757.4	29.89	759.2	25.0	— 3.9	62	w.	9	4.0	.....	1 cs	d.	.....	.....	0.660	16.8	fair	Prof. Harrison, L. L. D.
Granton	29.01	730.8	30.24	768.1	4.7	—15.2	95	w.	9	4.0	.....	.....	10 n	.....	s.	o	o	overcast	Jas. Grant.
Halifax, N. S*	29.71	754.6	29.84	757.9	36	2.2	89	w.	5	2.2	.....	5 k	o	w.	.....	0.310	7.9	fair	A. Allison.
Hamilton	29.78	756.4	30.21	767.3	9.7	—12.4	95	sw.	.....	.....	3	10 cs	o	sw.	.....	o	o	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.68	753.9	30.04	763.0	17	— 8.3	80	w.	12	5.4	.....	.....	10 ks	.....	w.	0.15	3.8	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.70	754.4	29.92	760.0	20	— 6.7	84	s.	16	7.2	.....	8 k	2 s	w.	.....	0.38	9.7	cloudy	C. H. McLeod, C. E.
Ottawa	29.70	754.4	29.97	761.2	16.1	— 8.8	90	w.	.....	.....	1	o	5 ks	.....	.....	o	o	fair	A. McGill, M. A.
Parry Sound, Ontario*	29.33	745.0	30.11	764.8	2	—16.7	72	w.	10	4.5	.....	5 k	5 ks	sw.	sw.	0.13	3.3	cloudy	Rev. R. Mosley.
Peterboro	29.30	744.2	30.12	765.0	9.8	—12.3	78	n.	.....	.....	2	6 k	o	.....	.....	o	o	fine	J. Dixon, B. A.
Port Dover, Ontario	29.50	749.3	30.27	768.8	8	—13.3	100	w.	14	6.3	.....	8 c	o	w.	.....	0.03	0.8	fair	H. Morgan.
Port Stanley, Ontario	29.50	750.8	30.28	769.1	7	—13.9	83	w.	20	8.9	.....	o	2 ks	.....	w.	inap.	inap.	clear	M. Payne.
Quebec, Quebec*	29.53	750.0	29.88	758.9	17	— 8.3	83	nw.	.....	.....	5	2 ck	2 k	.....	nw.	0.35	8.9	fair	Capt. Ashe, R. N
Rockliffe, Ontario*	29.48	748.8	29.98	761.5	7	—13.9	83	nw.	10	4.5	.....	o	5 cs	.....	nw.	o	o	fair	W. H. McIntyre.
Saugeen, Ontario*	29.33	745.0	30.10	764.5	14	—10.0	100	w.	25	11.2	.....	.....	10 ks	.....	.....	0.04	1.0	cloudy	.....
St. Andrews, N. B	29.82	757.4	29.88	758.9	27	— 2.8	94	w.	5	2.2	.....	o	o	.....	.....	0.19	4.8	clear	.....
St. John, N. B	29.72	754.9	29.90	759.4	27.0	— 2.8	82	nw.	11	4.9	.....	o	8 ks	.....	.....	0.01	0.3	d. clouds	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.96	761.0	35.0	2.0	.....	s.	.....	.....	7	.....	.....	.....	.....	o	o	.....	The Commandant
Stratford	28.81	731.8	30.23	767.8	5.2	—14.9	95	w.	15	6.7	.....	.....	10 s	.....	.....	0.05	1.3	light snow	C. J. Macgregor, M. A.
Sydney, C. B*	29.62	752.3	29.98	753.9	36	2.2	96	sw.	14	6.3	.....	.....	10 n	.....	.....	0.14	3.6	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.75	755.6	30.17	766.3	11	—11.7	87	w.	8	3.6	.....	o	2 ks	.....	w.	o	o	clear	Magnetic Observatory.
Windsor	29.74	755.4	29.84	757.9	33.0	0.6	70	w.	16	7.2	.....	1 c	8 ks	.....	.....	o	o	overcast	Prof. W. H. Butler, M. A.
Woodstock	29.09	738.9	30.27	768.8	6.5	—14.2	72	sw.	24	10.7	.....	.....	10 s	.....	.....	0.10	2.5	overcast	Prof. Wolverton, M. A.
Yarmouth, N. S*	29.86	758.4	29.93	760.2	31	— 0.6	92	n.	2	0.9	.....	8 cs	2 k	s.	n.	0.39	9.9	cloudy	Lt. F. E. Winnot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
Cape Colony.																			
Cape St. Francis Lt. House	29.88	758.9	29.91	759.7	70.5	21.4	86	e.	9.9	4.4	.....	3 c	0	.....	.....	0	0	dense haze..	**John Duthie.**
Springbok Fontein	27.86	707.6	.....	.....	80	26.7	58	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**J. T. Eustace.**
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.77	629.2	.....	.....	6.4	—14.2	.....	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	clear.	
Tchang-kia-tchouang	30.35	770 8	30.46	773.6	9.5	—12.5	85	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	**R. P. Desurmont, S. J.**
Zi-Ka-Wei, near Shanghai	30.39	772.0	30.42	772.6	31.8	— 0.1	78	wnw.	11.2	5.0	.....	.....	10	.....	.....	0.126	3.2	covered	**M. Marc Dechevrens, S.J.**
Danish.																			
Copenhagen	29.76	755.9	29.81	757.1	36.1	2.3	82	e.	20	9	.....	.....	3	.....	.....	.....	.....	.....	**Oversergent Fischer.**
Fanoe	29.67	753.7	29.69	754.2	34.0	1.1	90	ene.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	29.74	755.3	29.78	756.4	11.1	—11.6	68	s.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	**S. Kleinschmidt.**
Ivigtut, Greenland	29.86	758.4	29.88	758.9	11.8	—11.2	.....	calm	.....	.....	0	.....	6	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.78	756.5	29.83	757 7	—13.4	—25 2	.....	calm	.....	.....	0	.....	3	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.43	747.4	29.47	748.5	12.6	—10.8	90	ne.	.....	.....	8	.....	10	.....	.....	.....	.....	.....	
Thorshavn	29.26	743.1	29.29	744 0	34.7	1.5	89	calm	0	0	.....	.....	7	.....	.....	.....	.....	.....	**A. O. Thorlacius.**
Vestervig	29.67	753.5	29.76	755.8	33.3	0.7	89	e.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Upernavik, Greenland	29.88	758 9	29.93	760.1	—13.4	—25.2	.....	e.	.....	.....	4	.....	6	.....	.....	.....	.....	.....	**Loerer Oesterbol**
French.																			
Agen, Normal School	29.26	743 2	29.92	760.0	46.8	8.2	97	wnw.	.....	.....	1	.....	n	.....	w.	0.134	3.4	.....	**M. Labroue, Director.**
Alençon, Normal School	29.12	739.7	29.67	753.7	41.7	5.4	84	sw.	.....	.....	2	.....	kn	ne.	ne.	0.16	4.	.....	**M. Nicot, Director.**
Arras, Engineer School	29.35	745.6	29.62	752.3	39.2	4.0	87	ne.	.....	.....	2	.....	10	.....	.....	0	0	covered.....	**M. Fénéon, Command't.**
Avignon, Normal School	29.61	752.0	29.69	754.0	49.6	9.8	64	nnw.	.....	.....	1	.....	10	.....	.....	0	0	covered.....	**M. Giraud, Director.**
Bar-sur-Seine	29.11	739.3	29.67	753.7	40.3	4.6	93	wsw.	.....	.....	2	.....	10	.....	w.	0.079	2.0	covered.....	**M. Saillard, Director.**
Beauvais, Normal School	29.36	745.8	29.63	752.7	44.2	6.8	76	wsw.	.....	.....	1	.....	8	.....	nw.	0.020	0.5	very cloudy	**M. Frère Eugène Marié.**
Besançon, Normal School	28.71	729.2	29.61	752.1	44.6	7	85	s.	.....	.....	1	.....	10 n	.....	w.	0.059	1.5	raining	**M. Gobin, Director.**
Bordeaux, Observatory	29.56	750.8	29.82	757.4	48.2	9.0	66	w.	.....	.....	1	.....	8	.....	w.	0.453	11.5	raining.....	**M. Rayet, Director.**
Bourges, Normal School	29.08	738.6	29.64	752.9	40.1	4.5	83	w.	.....	.....	2	.....	n	.....	w.	0.16	4.	.....	**M. Malet, Director.**
Brest, Naval Observatory	29.35	745.4	29.59	751.6	43.5	6.4	88	sse.	.....	.....	3	.....	10	.....	sse.	0.071	1.8	raining.....	**M. de Kermaréc, Dir.**
Caen, Normal School	29.39	746.6	29.47	748.5	44.6	7	86	ne.	.....	.....	1	.....	5	.....	e.	0.138	3.5	cloudy.....	**M. Berson, Director.**
Châlons-sur-Marne, N. Sch'	29.29	743.9	29.62	752.4	42.6	5.9	81	s.	.....	.....	1	.....	10	.....	.....	0.012	0.3	covered.....	**M. Jadot, Director.**
Charleville, Normal School	29.06	738.1	29.58	751.3	39.6	4.2	90	s.	.....	.....	1	.....	10	.....	.....	0	0	covered.....	**M. Grimard, Director.**
Clermont-Ferrand Obs'y	28.39	721.1	29.77	756.2	41.7	5.4	69	e.	.....	.....	2	.....	10	.....	w.	0.134	3.4	covered.....	**M. Allnard, Director.**
Cluny, Normal School	28.89	733.8	29.71	754.6	40.3	4.6	89	w.	.....	.....	3	.....	9	.....	w.	0.16	4.	.....	**M. de Villemontée, Dir.**
Commercy, Normal School	28.75	730.3	29.62	752.4	42.8	6	56	w.	.....	.....	1	2 cs	.....	w.	w.	0.031	0.8	slightly cl'dy	**Dr. Coulet, Director.**
Gap, Normal School	27.15	689.6	29.72	755.0	39.6	4.2	90	calm	.....	.....	0	0	3 n	.....	.....	0	0	.....	**M. Jeangirard, Director.**
Gréasque, du Rhone	28.52	724.5	29.66	753.3	45.5	7.5	80	nw.	.....	.....	3	.....	7	.....	nw.	1.476	37.5	.....	**M. Kina, Director.**
Grenoble, Normal School	28.89	733.9	29.68	753.8	41.4	5.2	78	wnw.	.....	.....	1	.....	n	.....	n.	0	0	.....	**M. Ablard, Director.**
Guéret	28.04	712.2	29.72	754.8	34.7	1.5	88	w.	.....	.....	1	.....	10 n	.....	ne.	0.126	3.2	covered.....	**M. Delorme, Dir.**
Lamballe, Normal School	29.41	747.0	29.68	753.8	44.6	7	74	w.	.....	.....	4	.....	5	.....	w.	0.193	4.9	cloudy.....	**M. Ollitrault, Director.**
Lescar, Normal School	29.37	745.9	29.93	760.2	53.6	12.0	52	wsw.	.....	.....	1	.....	2	.....	.....	0.961	24.4	slightly cl'dy	**M. Chauvin, Director.**
Lorient, Naval Observatory	29.56	750 7	29.66	753.3	46.8	8.2	97	s.	.....	.....	1	.....	10	.....	s.	0.319	8.1	covered.....	**Lt. T. Carré, Director.**
Lyon, St. Genis-Laval	28.65	727 8	29.73	755 2	41.4	5.2	79	nw.	.....	.....	2	.....	10 n	.....	wnw.	0.051	1.3	light rain....	**M. André, Director.**
Mans, Normal School	29.40	746.7	29.71	754.7	40.8	4.9	88	sw.	.....	.....	4	.....	5	.....	sw.	0.224	5.7	cloudy	**M. Piboën, Director.**
Marseille, Observatory	29.38	746.2	29.65	753.0	50.9	10.5	69	nw.	.....	.....	3.4	.....	6	.....	nw.	0.165	4.2	.....	**M. Stephan, Director.**
Montlouis	24.58	624.4	29.43	747.4	36.0	2.2	43	sw.	15.0	6.7	.....	.....	6	w.	.....	0	0	.....	**M. Caré for Dr. Fines.**
Montpellier, Normal School	29.56	750.6	29.68	753 9	51.1	10.6	71	nnw.	.....	.....	6	.....	0	.....	.....	0	0	clear.....	**M. Galzin, Director.**
Nancy, Normal School	28.80	731 4	29.59	751.5	40.6	4.8	87	ne.	.....	.....	1	c	0	.....	.....	0	0	foggy.....	**M. Hasse, Director.**
Nantes, Observatory	29.56	750 9	29.72	755.0	50.2	10.1	65	ssw	.....	.....	0.1	4 c;k	0	wsw.	.....	0.150	3.8	.....	**M. Lacroeque, Director.**
Perpignan, Observatory	29.66	753.4	29.78	756.3	52.0	11.1	43	nw.	46.5	20.8	.....	.....	4	.....	n.	0	0	.....	**Dr. Fines, Director.**
Pic-du-Midi, Summit	20.87	530.1	.....	.....	8.6	—13.0	.....	nw.	.....	.....	3-4	.....	.....	.....	w.	1.260	32.0	.....	**M. Vaussenat, Director.**
Privas, Normal School	28.66	726.4	29.68	753.8	44.2	6.8	69	nw.	.....	.....	1	.....	5	nw.	nw.	0.126	3.2	cloudy	**M. Taillen.**
Puy de Dôme Obs'y, Summit	24.70	629.0	.....	.....	36.0	2.2	100	w.	.....	.....	6	.....	10	.....	.....	0.677	17.2	snow & fog..	**M. Allnard, Director.**
Rochefort, Naval Obs'y	29.74	755.3	29.77	756.1	47.5	8.6	81	calm	.....	.....	0	.....	0	.....	.....	0.16	4.	clear.....	**Lt. E. Decante, Director.**
Roche-sur-Yon, N. School	29.51	749.5	29.72	755.0	47.1	8.4	72	w.	.....	.....	1	.....	2	.....	sw.	0.35	9.	slightly cl'dy	**M. Brotier, Director.**
Rodez, Normal School	27.63	701.9	29.84	757.8	37.2	2.9	86	e.	.....	.....	3	.....	k	.....	.....	0.846	21.5	.....	**M. Seger, Director.**
Rouen, Normal School	29.51	749.5	29.56	750.7	43.9	6.6	73	w.	.....	.....	1	.....	5	w.	.....	0	0	cloudy.....	**M. Moullot.**
Saint Lô	.....	.....	.....	.....	43.9	6.6	73	w.	.....	.....	1	.....	5	.....	sw.	0.189	4.8	cloudy.....	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.49	749.0	29.65	753.2	43.2	6.2	79	w.	.....	.....	1	.....	10	.....	nw.	0	0	.....	**M. Renou, Director.**
Toulouse, Observatory	29.17	741.0	29.89	759.3	48.6	9.2	61	w.	.....	.....	4	.....	5	nw.	.....	0.453	11.5	cloudy.....	**M. Baillaud, Director.**
Tours	29.54	750.4	29.72	754.8	47.1	8.4	70	sw.	.....	.....	1	.....	5	wsw.	wsw.	0.378	9.6	cloudy.....	**M. de Tastes.**
Versailles, Observatory	29.16	740.7	29.65	753.2	41.7	5.4	73	w.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.74	755.5	29.89	759.3	50.7	10.4	66	sw.	11.9	5.3	.....	0	3 k	.....	.....	0.654	16.6	.....	**M. Cartier, Director.**
German.																			
Ansbach	28.14	714.7	29.62	752.3	36.9	2.7	84	w.	.....	.....	2	.....	5	w.	.....	0	0	.....	**Prof. Jnedt.**
Bamberg	28.78	730.9	29.61	752.0	39.9	4.4	73	se.	.....	.....	1	0	3 ks	.....	se.	0	0	.....	**Prof. Dr. Hoh.**
Berlin	29.49	749.1	29.64	752.9	34.9	1.0	96	e.	.....	.....	3	.....	10	.....	.....	0	0	foggy.....	**Meteorological Institute.**
Breslau	29.15	740.5	29.68	753.8	44.8	7.1	70	se.	.....	.....	3	.....	0	.....	.....	0.012	0.3	hazy	Royal University Obs'y
Carlsruhe	29.19	741.3	29.65	753.0	40.6	4.8	75	sw.	.....	.....	2	.....	8	sw.	.....	0	0	.....	**Albert Senz.**
Cassel	28.84	732.4	29.55	750.5	36.3	2.4	84	s.	.....	.....	1	.....	10	s.	.....	0	0	.....	**Dr. H. Möhl.**
Frankfort-on-the-Main	29.24	742.6	29.61	752.0	40.6	4.8	74	nw.	.....	.....	1	.....	6	.....	.....	0	0	.....	**Physical Society.**
Friedrichshafen	28.20	716.3	29.66	753 3	39.9	4.4	77	w.	.....	.....	3	.....	10	w.	.....	0	0	.....	**Wilhelm, Chief Tel.**
Hamburg	29.55	750.5	29.64	752.8	34.5	1.4	93	e.	.....	.....	3	.....	10	.....	.....	0	0	foggy	**E. Preller.**
Kiel	29.67	753.5	29.68	753.9	34.7	1.5	83	e.	.....	.....	3	.....	10	.....	.....	0	0	.....	**Prof. Dr. G. Karsten.**
Leipsic, Astrom'l Obs'y	29.17	740.8	29.60	751.7	36.1	2.3	87	e.	.....	.....	2	.....	7	.....	.....	0	0	.....	**H. Leppig, Asst.**
Magdeburg	29.41	746.9	29.60	751.9	34.9	1.6	94	e.	.....	.....	2	.....	10	.....	.....	0	0	foggy.....	**Dr. Assmann.**
Memel	29.97	761.3	30.02	762.5	31.5	— 0.3	100	e.	.....	.....	3	.....	9 ks	.....	.....	.....	.....	.....	Issermann.
Munich	27.75	704.8	29.58	751.4	34.7	1.5	91	nw.	.....	.....	1	.....	9	w.	.....	0	0	.....	**Central Station.**
Neufahrwasser	29.90	759.5	29.92	759.9	33.8	1.0	89	e.	.....	.....	2	.....	10	.....	.....	0.024	0.6	.....	**A. Lothes.**
Neustadt, Palatinate	29.06	738.0	29.58	751.2	41.7	5.4	82	calm	.....	.....	0	.....	4	.....	.....	0	0	.....	Dicknether.
Stuttgart	28.66	728.0	29.57	751.0	40.1	4.5	70	ne.	.....	.....	1	.....	4	sw.	.....	0	0	.....	**Prof. Dr. Schoder.**
Wustrow	29.74	755.3	29.76	756.0	33.3	0.7	87	ese.	.....	.....	3	.....	10 8	.....	.....	0	0	.....	Profs. Brandes & **Reimer.**
Greek.																			
Athens	29.62	752.4	30.01	762.3	55.8	13.2	.....	se.	.....	.....	3.0	.....	10	.....	.....	0.252	6.4	covered.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.95	760.8	30.00	762.1	71.7	22.1	34	ene.	9.0	4.0	.....	.....	0	.....	.....	0	0	blue sky.....	
Deesa	29.46	748.2	29.94	760.5	71.1	21.7	8	nnw	10.0	4.5	.....	.....	0	.....	.....	0	0	blue sky.....	
Bombay	29.84	757.0	29.84	758.0	74.4	23.6	45	nnw.	22.0	9.8	.....	.....	0	.....	.....	0	0	blue sky.....	
Poona, Yarrowda	27.94	709.6	29.78	756 4	81.1	27.3	12	wnw.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky.....	
Belgaum	27.26	692.4	29.77	756.2	80.9	27.2	27	sse.	3.0	1.3	.....	.....	0	.....	.....	0	0	blue sky.....	
Lahore	29.28	743.6	30.07	763.7	53.7	12.1	55	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky.....	
Roorkee	29.05	737 9	30.00	762.1	54.8	12.7	52	w.	2.0	0.9	.....	.....	0	.....	.....	0	0	.....	
Agra	29.46	748.3	30.06	763.4	58.3	14.6	33	w.	2.0	0.9	.....	.....	2	.....	w.	0	0	d. clouds....	
Nagpur	28.81	731.7	29.87	758.6	73.2	22.9	32	calm	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky.....	
Jubbulpore	28.57	725.6	29.97	761.2	64.1	17.8	36	n.	6.0	2.7	.....	.....	0	.....	.....	0	0	blue sky.....	
Lucknow	29.64	752.9	30.04	763.0	57.3	14.1	40	wnw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky.....	
Allahabad	29.69	754.1	30.02	762.5	57.7	14.3	61	n.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky.....	
Patna	29.78	756 5	29.98	761.4	59.6	15.3	64	nw.	2.5	1.1	.....	.....	8	nw.	nw.	0.10	2.5	d. clouds....	
Hazaribagh	27.87	707.8	29.96	761.0	58.5	14.7	59	n.	6.0	2.7	.....	.....	10	.....	.....	0	0	overcast.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.82	757.5	29.91	759.6	66.7	19.3	69	ne.	9.0	4.0			9		ese.	0.01	0.3		
Calcutta, Alipore	29.93	760.3	29.96	760.9	67.1	19.2	77	ene.	5.0	2.2			10		w.	0	0	overcast	
Dhubri	29.84	758.0	29.97	761.1	61.5	16.4	74	n.	6.6	3.0			0			0	0	blue sky	
Chittagong	29.95	760.8	30.04	763.1	65.6	18.7	64	n.	3.2	1.4			8			0	0	d. clouds	
Sibsagar	29.66	753.4	30.02	762.5	56.9	13.8	87	ne.	2.0	0.9			8		sw.	sw.	0	0	d. clouds	
Zanzibar																			
Jeypore	28.54	724.8	30.05	763.2	58.7	14.8	37	ne.	5.0	2.2			0				0	0	blue sky	
Bellary	28.28	718.3			88.0	31.1	30	se.	4.	1.8			0				0	0	blue sky	
Trichinopoly	29.57	751.1			86.6	30.3	40	e.	1.	0.4			0				0	0	blue sky	
ITALIAN.																			
Udine	29.23	742.5	29.65	753.2	44.6	7.0	94	ne.	2.5	1.1			10				2.839	72.1		Prof. Giovanni Clodig.
Milan	29.13	740.0	29.67	753.6	41.0	5.0	94	nw.	3.8	1.7			10				0.524	13.3		Prof. Schiapparelli.
Padua	29.48	748.8	29.60	751.7	47.7	8.7	92	ene.	9.8	4.4			10				0.083	2.1		Prof. Dott. Lorenzoni.
Moncalieri	28.78	731.0	29.72	755.0	37.9	3.3	85	n.	0.7	0.3			10				0.244	6.2		Prof. F. F. Denza.
Genoa	29.37	740.1	29.57	751.1	41.4	5.2	72	n.	12.5	5.6			10		ne.		0.030	10.0		Prof. G. M. Garibaldi.
Mondovi	27.71	703.9	29.70	754.4	38.1	3.4	71	w.			2		9				0.209	5.3		Prof. D. C. Bruno.
Pesaro	29.58	751.2	29.63	752.5	40.6	4.8	93	ne.	19.9	8.9			10				0	0		Prof. Luigi Guidi.
Florence	29.27	743.4	29.53	750.0	50.0	10.0	73	ese.			2		10				0.232	5.9		Prof. Costantino Pittei.
Leghorn	29.39	746.6	29.48	748.8	50.9	10.5	88	ene.	6.9	3.1			10				0.138	3.5		Prof. P. Monte.
Rome	29.35	745.4	29.52	749.9	50.4	10.2	83	e.	3.8	1.7			8				1.091	27.7		Prof. P. Tachini.
Lecce	29.43	747.5	29.69	754.1	54.7	12.6	90	ssw.	21.7	9.7			10		sw.		0.118	3.0		Prof. C. de Giorgi.
Cosenza	28.82	731.9	29.72	754.9	51.8	11.0	75	sw.	3.1	1.4			10		w.		0.490	12.6		Prof. D. Conti.
Cagliari	29.43	747.4	29.62	752.4	55.6	13.1	57	nw.			0		7		nw.		0.236	6.0		Prof. A. Pacinotti.
Palermo	29.42	747.2	29.67	753.0	57.6	14.2	55	wsw.	13.6	6.1			4		wsw.		0.039	1.0		Prof. G. Cacciatore.
Syracuse	29.67	753.7	29.72	754.8	53.8	12.1	74	sw.	4.9	2.2			10		wsw.		0.083	2.1		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.01	737.9	29.58	751.3	51.1	10.6	82	sw.	1.3	0.6			10		sw.		0.768	19.5		Prof. F. Brioschi.
Stelvio	21.74	552.2			24.4	— 4.2	95	w.			4		10				0	0	misty	Prof. P. F. Denza.
Valdobbia	21.72	551.6			25.2	— 3.8	67	e.			0		10				0.984	25.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.10	764.5	30.13	765.3	23.8	— 4.6	88	nw.			4		10 n		nw.		0.083	2.1	snowing	H. Hattori.
Awomori	30.02	762.5	30.06	763.5	20.1	— 6.6	83	wsw.	23.6	10.5		0	2 ks				0.181	4.6	fair	K. Ogawa.
Hakodate	30.01	762.2	30.02	762.5	19.0	— 7.2	83	nw.	7.2	3.2		0	8				0.030	0.9	cloudy	
Hamamatsu	30.01	762.2	30.04	762.9	37.3	2.9	68	nw.			2		10 s				0.004	0.1	overcast	
Kagoshima	30.06	763.6	30.07	763.9	45.9	7.7	73	n.			2		10 s				0	0	overcast	G. Miyanohaza.
Kioto	29.95	760.7	30.13	765.4	31.4	— 0.3	74	nnw.	2.8	1.2		0	4 s				0	0	fair	M. Tojima.
Kochi	30.02	762.5	30.04	763.0	47.1	8.4	69	sse.	4.3	2.0			10				0	0	overcast	K. Kusunose.
Minsaka	30.03	762.9	30.00	763.0	47.2	8.4	92	calm			0		10 s		ne.		0	0	covered	K. Masusaki.
Nagasaki, I. M. Obs'y	29.88	759.1	30.09	764.4	44.0	6.7	71	calm	0	0		0	7 s				0	0		S. Takehayashi.
Niigata	30.14	765.5	30.18	766.0	28.4	— 2.0	93	sw.	3.3	1.4			10 n				0.050	1.3	light snow	M. Morita.
Nobira	30.11	764.8	30.13	765.2	27.3	— 2.6	94	nw.	10.7	4.7		0	1 s				0	0	fair	H. Midzushina.
Numazu	30.03	762.9	30.07	763.8	40.1	4.5	67	ene.			2		10 ks				0.130	3.3	cloudy	R. Kaneda.
Osaka	30.12	765.0	30.13	765.4	35.2	1.8	74	ne.	4.7	2.1			10 s				0	0	cloudy	H. Omura.
Sakai	30.08	764.1	30.09	764.4	38.1	3.4	74	e.			4		9 ks		nnw.		0	0	cloudy	K. Yamawchi.
Sapporo					15.0	— 9.4	90	calm	0	0			10				0.180	4.6	snowing	
Tokei Obs'y, Yeddo	30.02	762.4	30.10	764.5	30.4	2.4	64	n.	5.4	2.4			10 s				0.800	20.3	covered	The Staff.
Wakayama	30.04	763.1	30.10	764.5	37.5	3.1	62	ne.	9.5	4.2			10s;ck				0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.05	753.1	29.84	757.9	81.5	27.5	70	e.	25.0	11.2		0	6 k;n		ese.		0.24	6.1	fair	Oliver & Figon.
MEXICAN.																			
Altata					57.8	14.3	96	s.											dense fog	H. Diaz Pena.
Guanajuato	23.65	600.7	29.87	758.7	53.1	11.7	84	calm	0	0		0	0				inap.	inap.	foggy	Prof. Vicente Fernandez.
Leon	24.29	617.0	30.04	763.0	50.0	10.0	83	nnw.			1	0	1 k				0	0	clear	Prof. M. Leal.
Mazatlan	29.72	754.8	29.98	761.4	66.0	15.6	100	ne.	0.9	0.4			fg				0	0	dense fog	F. Quijano, U. E.
Mexico, Central Obs'y	23.07	586.0	30.20	767.0	49.97	1.57	84	calm	0	0		3 c	0				0.099	2.5	fine	The Staff.
Morelia	24.35	618.5	30.29	769.4	50.0	10.0	63	se.			2	1 c	1 ck	e.	s.		inap.	inap.	clear	M. Tena, M. D.
Pabellon	23.91	607.4	30.00	762.0	47.8	8.8	59	calm	0	0		0	0				0	0	fine	
Puebla, Catholic Institute	23.40	594.5	30.24	768.1	48.6	9.2	82	calm	0	0		0	7		e.		0	0	cloudy	Prof. P. Spina.
Zacatecas	22.51	571.8	30.23	767.8	46.6	8.1	58	wsw.	0.5	2.9		0	0				0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.54	750.2	29.54	750.2	39.2	4.0		wsw.			3						0.110	2.8		
Groningen	29.51	749.5	29.56	750.9	30.1	2.3		e.			1						0	0		
Helder																	0	0		
Hellevoetsluis	29.52	749.9	29.52	749.9	38.3	3.5	90	sse.			1						0.016	0.4		
Utrecht	29.47	748.6	29.52	749.8	39.7	4.3	75	sse.			2		8				0.012	0.3	very cloudy	H. van der Brink
Sub-series.																				
Batavia, Java	29.79	756.6			77.2	25.1	89	n.	1.0	0.4			9				1.54	39.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.60	751.9	29.67	753.5	35.6	2.0	64	se.	2	1			9				0	0		
Brono	29.70	754.3	29.74	755.3	32.7	0.4	49	calm			0		3				0	0		
Christiania	29.77	756.1	29.93	760.1	20.3	— 6.5	90	ne.	9	4			10						snowing	
Gjesvær	29.46	748.3	29.48	748.9	30.6	— 0.8		calm			0		10							
Lodingen	29.51	749.5	29.56	750.7	32.7	0.4	96	s.			4		10				0.472	12.0	snowing	
PORTUGUESE.																			
Angra, Azores	30.08	763.9	30.23	767.9	57.6	14.2	57	nnw.	17.4	7.8			6				0	0		Dr. J. A. Sampaio.
Campo Major	29.10	739.0	30.12	765.0	50.2	10.1	84	ssw.	4.3	1.9			9				0.039	1.0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.21	767.4	30.30	769.7	63.1	17.3	58	sw.	1.8	0.8			10				0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.76	755.9	30.13	765.2	54.7	12.6	79	ssw.	19.2	8.6			9				0.012	0.3		The Staff.
Ponta Delgada, Azores	30.18	766.5	30.25	768.3	59.0	15.0	52	nnw.	13.0	5.8			3		e.		0.055	1.4		
Saint Paul de Loando	29.69	754.2	29.89	759.3	82.4	28.0	83	wsw.	1.8	0.8			2		sse.		0	0		
Serra da Estrella	25.20	640.0	30.09	764.2	32.4	0.2	100	nw.			2		10				0	0	foggy	
RUSSIAN.																			
Akmollinski	29.39	746.4	30.03	778.0	— 7.1	—21.7	78	sse.	2	1		0	0				0	0		Major K. Lasarew.
Archangel	29.71	754.7	29.73	755.2	29.8	— 1.2	84	wsw.	18	8			10				0	0		Capt. Sselliwerstow.
Ashurada	30.33	770.4	30.24	768.0	42.8	6.0	70	wsw.	16	7			9 kn				0	0		
Astrakhan	30.56	776.1	30.47	774.0	22.5	— 5.3	57	se.	2	1			0				0	0		Capt. Wisganow.
Baku	30.35	771.0	30.31	769.8	34.9	1.6	75	nne.	22	10		0	7 ks				0	0		
Barnaul	29.98	761.6	30.55	775.9	3.0	—16.1	77	sw.	4	2			10				0	0		Meteorological Obs'y.
Bielosersk	29.56	750.8	30.05	763.2	31.1	— 0.5	82	calm	0	0			9 ks				0	0		
Dorpat	29.82	757.4	30.08	763.9	32.0	0.0	100	w.	2	1			10 n				0	0		Observatory.
Ekaterinburg	29.35	745.4	30.39	771.9	18.0	— 7.8	38	wsw.	22	10		9 c	0				0	0	light clouds	Meteorological Obs'y.
Elisawetgrad	29.70	756.0	30.24	768.0	32.0	0.0	94	se.	9	4			10 n				0	0		
Irkutsk	28.52	724.3	30.33	770.4	4.5	—15.3	90	calm			0		2				0.020	0.5		
Kasalinsk	29.94	760.4	30.11	764.9	— 1.8	—18.8	66	calm	0	0		0	0							
Kasan	30.14	765.5	30.44	773.2	4.8	—15.1	82	sse.	7	3			10				0.051	1.3		Observatory.
Kem	29.67	753.7	29.72	755.0	24.1	— 4.4	81	sw.	31	14		0	2 ks				0	0	light clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From	Lower. From.	Inch.	Mill.		
Russian.—Continued.																			
Kertch	30.28	769.0	30.30	769.5	29.7	— 1.3	96	calm	0	0	.....	.....	9 n	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.43	747.6	30.10	764.5	33.1	0.6	90	sse.	16	7	.....	.....	10 ks; n	.....	.....	0	0	.....	Observatory.
Koslov	29.81	757.1	30.38	771.7	19.9	— 6.7	96	ssw.	11	5	.....	.....	10 s	.....	.....	0	0	.....	
Libau	29.98	761.6	30.01	762.2	30.7	— 0.7	94	e.	9	4	.....	.....	10	.....	.....	0	0	.....	E. Quaas.
Lugan	30.13	765.2	30.33	770.3	21.2	— 6.0	72	e.	18	8	.....	.....	9	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.63	752.6	30.14	765.5	26.8	— 2.9	92	s.	3.4	1.5	.....	.....	10 n	.....	.....	0.055	1.4	snowing	Meteorological Obs'y
Nikolaievsk	30.14	765.6	30.22	767.5	34.5	1.4	87	sse.	13	6	.....	.....	10 n	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.35	745.4	29.43	747.6	—19.8	—28.8	57	w.	11	5	.....	.....	0	.....	.....	0	0	.....	Iwanow.
Pekin, China	30.34	770.5	30.48	774.3	18.3	— 7.7	31	nw.	16	7	.....	0	1 k	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.99	761.7	30.37	771.4	19.4	— 7.0	62	ne.	2	1	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	29.72	754.9	29.93	760 1	29.8	— 1.2	76	w.	7	3	.....	cs	8 k	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.46	748.2	29.97	761.2	38.1	3.4	68	se.	7	3	.....	0	8 s	.....	.....	0	0	light clouds	
Poti	30.15	765.8	30.17	766.3	45.7	7.6	89	calm	0	0	.....	.....	10 n	.....	.....	0.087	2.2	raining	
St. Petersburg	30.02	762.5	30.04	762.9	32.4	0.2	89	sw.	4	2	.....	.....	10 n	.....	.....	inap.	inap.	light clouds	Central Physical Obs'y.
Samarkand	27.56	699.9	30.18	766.5	23.9	— 4.5	48	se.	7.8	3.5	.....	0	0	.....	.....				
Semipalatinsk	29.98	761.4	30.71	780.1	— 0.8	—18.2	83	e.	9	4	.....	.....	0	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.97	761.3	30.21	767.2	43.7	6.5	65	s.	20	9	.....	0	1 s	.....	.....	0	0	.....	
Staroi Bykhov	29.59	751.6	30.07	763.8	30.6	— 0.8	94	se.	9	4	.....	.....	10	.....	.....	0.327	8.3	.....	
Tashkend	28.52	724.5	30.34	770.6	19.8	— 6.8	37	calm	0	0	.....	0	0	.....	.....	0	0	.....	Terch, A. M.
Tiflis	28.82	731 9	30.29	769.4	38.1	3.4	75	calm	0	0	.....	.....	10	.....	.....	inap.	inap.	.....	Physical Observatory.
Vernoe	27.67	702.8	30.48	774.2	— 0.2	—17.9	74	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	
Viatka	29.55	750.5	30.22	767.7	18.7	— 7.4	.....	sw.	7	3	.....	.....	10	.....	.....	0	0	.....	
Vladivostock	30.17	766 2	30.23	767.9	— 8.3	—22.4	25	calm	0	0	.....	.....	0	.....	.....	0	0	.....	
Warsaw	29.40	746.8	29.84	757.9	35.2	1.8	91	ssw.	9	4	.....	.....	10	.....	.....	0	0	heavy cl'ds.	Astronomical Obs'y.
Wilna	29.56	750.8	30.00	761.9	33.8	1.0	92	ene.	4	2	.....	.....	10	.....	.....	0	0	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.86	758.4	30.18	766.5	5.5	—14.7	86	w.	2	1	.....	.....	10	.....	.....	0.299	7.6	snowing	M. O. Marks.
Scottish.																			
Monach Lt	.....	.....	29.32	744.7	38	3.3	90	s.	.....	.....	4	.....	10	.....	.....	0.3	8.	cloudy	J. Youngclause.
North Unst	.....	.....	29.42	747.3	.....	.....	.....	s.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.68	753.8	29.79	756.6	54.9	12.7	51	nw.	4.9	2.2	.....	0	0	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.84	758.0	29.90	759.5	53.4	11.9	59	se.	11.4	5.1	.....	2	3	n.	.....	0.906	23.0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26 97	685.0	30.06	763.5	36.0	2.2	87	sw.	17.7	7.9	.....	.....	9	.....	.....	0	0	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.77	705.4	30.06	763.4	44.8	7.1	63	sw.	18.1	8.1	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	29.88	759.0	30.04	763.1	60.4	15.8	63	wsw.	3.6	1.6	.....	0	0	.....	.....	0	0	clear	Olayo Diaz, Director.
Oviedo	28.98	736.2	29.86	758.4	42.8	6.0	67	s.	7.5	3.4	.....	6 ck	6 k	n.	n.	0	0	cloudy	Prof. L. G. Frades.
Sub-series.																			
Manilla, Philippine Islands	29.90	759.4	29.95	760 8	78.1	25.6	66	nne.	4.4	2.0	.....	.....	k	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.14	765 6	30.24	768.2	57.2	14.0	67	ssw.	3.6	1.6	.....	0	4	.....	sw.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.04	763.0	30.13	765.3	78.1	25.6	73	calm	0	0	.....	0	3 kn	.....	e.	0.020	0.5	cloudy	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	29.81	757.2	29.85	758.2	4.3	—15.4	100	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	29.91	759.6	29.96	760.9	12.2	—11.0	86	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Hernosand	29.91	759.7	29.96	761.0	17.2	— 8.2	94	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Stockholm	29.83	757.7	30.01	762.2	28.6	— 1.9	98	sse.	.....	.....	2	.....	10	.....	.....	0	0	foggy	
Wisby	29.87	758.6	29.93	760.1	34.2	1.2	89	sse.	.....	.....	2	.....	5	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.92	759.9	30.00	762,1	12.4	—10.9	100	nw.	0	0	.....	.....	10	.....	.....	0	0	foggy	S. G. Fineman.
Swiss.																			
Geneva	28.26	717.7	29.72	754 8	41.9	5.5	74	wsw.	.....	.....	2	.....	7	.....	.....	0	0	cloudy	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.13	765 2	48.6	9.2	55	se.	10	4.5	.....	.....	1	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	29.81	757.1	54.5	12.5	.....	se.	.....	.....	1	.....	10	.....	.....	.....	.....	rainy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.18	766.6	62.4	16.9	59	nw.	.....	.....	1	.....	7 n	.....	nw.	0.515	13.1	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred L. Kingsbury.
United States.																			
Albany, New York	30.03	762.7	30.12	765.0	29	— 1.7	70	w.	3	1.3	.....	.....	10 s	.....	w.	0.34	8.6	cloudy	J. O. Barnes.
Alpena, Michigan	29.49	748.3	30.17	766.3	2	—16.7	72	w.	6	2.7	.....	0	0	.....	.....	0.03	0.8	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.91	632.7	30.01	762.2	21	— 6.1	64	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.64	702.0	30.68	779.3	—17	—27.2	44	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.13	739.9	30.35	770.9	32.0	0.0	68	nw.	5	2.2	.....	2 cs	0	.....	.....	0	0	clear	H. C. Smyth.
Atlantic City, New Jersey	30.18	766.6	30.19	766.8	32	0.0	78	nw.	8	3.6	.....	0	8 s	.....	.....	0.04	1.0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.13	765.3	30.33	770.4	38	3.3	82	nw.	2	0.9	.....	2 cs	0	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.20	767.1	30.25	768.3	33	0.6	50	nw.	14	6.3	.....	0	2 s	.....	sw.	0.03	0.8	clear	Geo W Felger.
Barnegat, New Jersey	30.17	766.3	30.19	766.8	32.0	0.0	78	nw.	13	5.8	.....	5 cs	4 s	nw.	nw.	0.07	1.8	cloudy	G. A. Hill.
Behring Id., Behring Sea	30.10	764.5	30.12	765.0	31	— 0.5	.....	se.	26	11.6	.....	0	4 n	.....	.....	0.01	0.3	.....	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.86	733.0	30.59	777.0	— 4	—20.0	83	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.69	703.3	30.09	779.5	— 8	—22.2	61	ne.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	S. Wheaton.
Billings, Montana	27.05	687.1	.....	.....	— 2	—18.9	87	ne.	16	7.2	.....	.....	10 n	.....	.....	0.13	3.3	light snow	T. Gibson.
Bismarck, Dakota	28.61	726.7	30.59	777.0	—21	—29.4	100	nw.	10	4.5	.....	0	0	.....	.....	0.01	0.3	clear	Cyrus Cramer.
Block Island, Rhode Island	30.08	764.0	30.11	764.8	34	1.1	60	nw.	16	7.2	.....	.....	10 s	.....	sw.	0.37	9.4	cloudy	J. T. Elker.
Boise City, Idaho	26.86	682 2	29.82	757.4	20	— 6.7	96	se.	4	1.8	.....	.....	10 s	.....	.....	0.44	11.2	cloudy	B. E. Light.
Boston, Massachusetts	29.88	758.9	30.04	763.0	34.0	1.1	73	sw.	8	3.6	.....	6 ck	3 s	sw.	sw	0.68	17.3	cloudy	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.97	761.2	59.0	15.0	93	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. McCarty.
Buffalo, New York	29.37	746.0	30.17	766.3	11	—11.7	87	sw.	29	13.0	.....	.....	10 n	.....	.....	0.03	0.8	light snow	W. Finn.
Buford, Fort, Dakota	28.49	723.6	30.07	779.0	—28	—33.3	100	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	F. A. Mellen.
Burlington, Vermont	29.69	754.1	30.00	762.0	27.3	— 2.6	83	sw.	21	9.4	.....	.....	10 s	.....	sw.	0.46	11.7	cloudy	D. N. Farnell.
Cairo, Illinois	30.11	764.8	30.53	775.4	20.0	— 6.7	76	ne.	11	4.9	.....	hz.	5 s	.....	.....	0	0	fair	W. H. Ray.
Cape Henry, Virginia	30.25	768.3	30.27	768 8	38	3.3	89	nw.	16	7.2	.....	0	4 s	.....	.....	0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.17	766.3	30.20	767.1	36.0	2.2	69	nw.	12	5.4	.....	2 cs	0	n.	.....	0.03	0.8	clear	W. E. Smith.
Cape Mendocino, California	29.30	744.2	30.00	762.0	35.5	1.9	92	nw.	20	8.9	.....	.....	10 n	.....	nw.	0.28	7.1	light rain	J. J. McLean.
Cedar Keys, Florida	30.19	766.8	30.21	767.3	61	16.1	93	ne.	9	4.0	.....	.....	10 s	.....	e.	0.05	1.3	cloudy	F. W. Mixer.
Champaign, Illinois	29.68	753 9	30.55	776.0	— 1.6	—18.7	64	nw.	9	4.0	.....	.....	10 s	.....	nw.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.19	766.8	30.25	768.3	46	7.8	53	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.42	747.3	30.30	769 6	37.9	2.8	51	nw.	3	1.3	.....	5 c	fg.	.....	.....	0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.57	751.1	30.43	772.9	32.0	0.0	50	n.	5	2.2	.....	2 cs	0	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.76	603.5	30.01	762.2	1.2	—17.1	75	se.	9	4.0	.....	.....	10 n	.....	.....	0.45	11.4	light snow	E. McGovern.
Chincoteague, Virginia	29.73	755.1	30.48	774.2	— 7.9	—22.2	74	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. Mitchell.
Cincinnati, Ohio	30.20	767.1	30.22	767.6	37	2.8	51	n.	17	7.6	.....	.....	9 ks;s	.....	w;nw	0	0	cloudy	C. F. Dickens.
Cleveland, Ohio	29.78	759.4	30.47	773.9	16	— 8.9	67	w.	9	4.0	.....	0	2 s	.....	w.	inap.	inap.	clear	R. B. Watkins.
Coleman City, Texas	29.58	751.3	30.37	771.4	7	—13.9	92	w.	14	6.3	.....	10 k	0	w.	.....	inap.	inap.	cloudy	J. B. Newlin.
Columbus, Ohio	28.20	716.3	30.08	764.0	30	2.2	72	n.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	L. Dorman.
Concho, Fort, Texas	29.52	749.8	30.42	772.7	12	—11.1	61	w.	14	6.3	.....	0	3 s	.....	.....	inap.	inap.	clear	D. Cuthbertson.
Davenport, Iowa	29.84	757.9	30.05	763 3	33.0	0.6	62	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. McClone.
Davis, Fort, Texas	25.09	637.3	30.05	763.3	38	3.3	58	calm	0	0	.....	5 cs	0	.....	.....	0	0	fair	R. B. Martin.
											.....	0	0	.....	.....	0	0	clear	J. Williams.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Dayton, Washington T'y	28.19	716.0	30.00	762.0	11	—11.7	89	n.	3	1.3			10 n			0.32	8.1	light snow..	D. Moore.
Deadwood, Dakota	25.39	644.9	30.31	769.9	— 1	—18.3	100	sw.	2	0.9			10 n			0.01	0.3	light snow..	F. Willson.
Delaware Breakwater, Del.	30.20	767.1	30.22	767.6	34	1.1	78	nw.	8	3.6		0	7 ks		w.	0	0	fair	T. S. Townsend.
Denison, Texas	29.34	745.2	30.18	766.6	33.0	0.6	68	e.	12	5.4		0	1 s			0	0	clear	J. W. Byram.
Denver, Colorado	24.51	622.5	30.03	762.7	16.0	— 8.9	87	s.	3	1.3		0	2 s		s.	0.74	18.8	clear	F. M. Neal.
Des Moines, Iowa	29.62	752.3	30.59	777.0	— 7	—21.7	58	n.	1	0.4			10 s			0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.57	751.1	30.32	770.1	8.0	—13.3	87	sw.	16	7.2			10 k		nw.	0.01	0.3	cloudy	E. R. Brace.
Dodge City, Kansas	27.50	698.5	30.24	768.1	12	—11.1	64	e.	10	4.5			10 s			0.02	0.5	cloudy..	V. P. Temple.
Dubuque, Iowa	29.78	756.4	30.54	775.7	—12.4	—24.7	47	calm	0	0		0	2 s		w.	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.68	753.9	30.50	774.7	—26	—32.2	100	sw.	3	1.3		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.17	740.9	30.01	762.2	53.4	11.9	86	se.	5	2.2			10 n			inap.	inap.	light rain	F. Belford.
Eagle Rock, Idaho	24.99	634.7	29.89	759.2	5	—15.0	79	n.	16	7.2			10 s			1.39	35.3	cloudy	J. M. Clifford.
Eastport, Maine	29.85	758.2	29.92	760.0	27.0	— 2.8	77	w.	7	3.1		2 ck	2 s	sw.	sw.	0.29	7.4	fair	D. C. Murphy.
Elliott, Fort, Texas	27 24	691.9	30.14	765.5	9	—12.8	60	e.	8	3.6			10 s		e.	0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.14	663.9	30.02	762.5	34.2	1.2	55	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.52	749.8	30.29	769.4	10	—12.2	80	w.	21	9.4			10 s		w.	0.21	5.3	cloudy	Peter Wood.
Escanaba, Michigan	29.58	751.3	30.30	769.6	— 9.0	—22.8	74	w	11	4.9		0	0			0.02	0.5	clear	George Heathcote.
Fredericksburg, Texas	28.22	716.8	30.02	762.5	53	11.7	86	s.	10	4.5			10 ks		s.	0	0	cloudy	Frank Halwegler.
Galveston, Texas	30.02	762.5	30.07	763.8	57	13.9	93	e.	12	5.4			fg.			0	0	dense fog	E. O'C. MacInerney.
Grand Haven, Michigan	29.63	752.6	30.34	770.6	8.0	—13.3	76	w.	17	7.6			10 s		nw.	0.09	2.3	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.08	637.0	29 94	760.5	36	2.2	66	nw.	2	0.9		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.22	767.6	30.24	768.1	46	7.8	77	n.	14	6.3		0	hz			0	0	clear	R. M. Crawford.
Helena, Montana	25.98	659.9	30.38	771.6	— 9	—22.8	100	sw.	6	2.7			10 s			0.03	0.8	cloudy	N. C. Smith.
Henrietta, Texas	29.10	739.1	30.15	765.8	30	— 1.1	78	n.	7	3.1			10 s			0	0	cloudy	J. P. Sherry.
Huron, Dakota	29.03	737.3	30.55	776.0	—11	—23.9	63	se.	2	0.9			10 s			0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.62	752.3	30.47	773.9	8	—13.3	76	w.	6	2.7		0	0			0.03	0.8	clear	C. F. R. Wappenhans.
Indianola, Texas	29.98	761.5	30.01	762.2	54.1	12.3	96	e.	10	4.5		0	0			0	0	clear	I. A. Reed.
Jacksboro, Texas	28.88	733.5	30.12	765.0	30	2.2	69	n.	10	4.5			10 s			0	0	cloudy	D. J. Carr.
Jacksonville, Florida	30.21	767.3	30.26	768.6	53	11.7	55	n.	1	0.4			10 s			0	0	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.88	708.1	30.56	776.2	— 7	—21.7	61	n.	10	4.5		7 k	0	n.		0.01	0.3	fair	A. Schneider.
Keokuk, Iowa	29.88	758.9	30.58	776.7	0	—17.8	68	w.	1	0.4			10 s		calm	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.10	764.5	30.12	765.0	72.0	22.2	97	ne.	8	3.6		4 c	1 s	sw.		0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.24	768.1	30.26	768.6	41	5.0	78	n.	8	3.6		0	1 s			0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.36	745.7	30.44	773.2	27	— 2.8	74	ne.	6	2.7		10s;hz	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.68	753.9	30.52	775.2	—18	—27.8	100	w.	4	1.8		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.54	750.3	30.49	774.4	14	—10.0	80	e.	4	1.8			10 n			0.05	1.3	light snow..	A. W. Browne.
Lewiston, Idaho	29.16	740.7	30.04	763.0	25.0	— 3.9	73	ne.	14	6.3		0	8 s			0.05	1.3	cloudy	W. Bell.
Little Rock, Arkansas	30.02	762.5	30.35	770.9	31	— 0.6	78	e.	10	4.5		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.48	748.8	29.88	758.9	46	7.8	96	se.	3	1.3			fg.			0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.91	759.7	30.50	774.7	17	— 8.3	67	nw.	12	5.4		9 cs	0			inap.	inap.	cloudy	L. M Dey.
Lynchburg, Virginia	29.53	750.0	30.25	768.3	36.2	2.3	44	w.	3	1.3		0	0			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.50	749 3	30.20	767.1	0.5	—17.5	70	w.	13	5.8		7 cs	0	w.		0.12	3.0	fair	F. R. Day.
Macon, Fort, North Carolina	30.24	768.1	30.25	768.3	44.0	6.7	93	nw.	7	3.1		2 cs	0			inap.	inap.	clear	William Daly.
Madison, Wisconsin	29.40	746.7	30.50	774.7	—17	—27.2	99	w.	7	3.1		2 c	0	w.		0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.72?	653.3?	30.26?	768.67	—12	—24.4	54	nw.	10	4.5			10 s		nw.	0	0	cloudy	F. Burke.
McKavett, Fort, Texas	27.70	703.6	30.08	764.0	40	4.4	73	n.	4	1.8			10 s		s.	0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.48	748.8	30.26	768.6	— 6	—21.1	62	w.	14	6.3		1 c	0			0.02	0.5	clear	J. Gilligan.
Memphis, Tennessee	30.07	763.8	30.42	772.7	28	— 2.2	64	n.	8	3.6		0	4 ks			0	0	fair	D. T. Flannery
Milwaukee, Wisconsin	29.66	753.4	30.46	773.9	—11	—23.9	100	nw.	10	4.5		0	0			0	0	clear	W. Line.
Missoula, Fort, Montana	26.83	681.5	30.26	768.6	1	—17.2	68	e.	26	11.6			8 s		ne.	0	0	cloudy	I. H. Young.
Mobile, Alabama	30.21	767.3	30.25	768.3	42	5.6	65	n.	4	1.8		0	0			0	0	clear	C. A. Read.
Montgomery, Alabama	30.06	763.5	30.30	769.6	35.5	1.9	71	ne.	4	1.8		1 cs	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.44	747.8	30.54	775.7	—26	—32.2	100	calm	0	0		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.33	745.0	30.40	772.1	24.0	— 4.4	61	sw.	14	6.3		0	0			0.01	0.3	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.23	590.0	29.85	758.2	— 3.0	—19.4	100	nw.	75	33.5			fg.		nw.	0.41	10.4	dense fog	S. W. Beall.
Nashville, Tennessee	29.87	758.7	30.48	774.2	25.0	— 3.9	64	n.	6	2.7		3 cs	0	w.		0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.98	761.5	30.10	764.5	30	— 1.1	51	w.	9	4.0		9 c	0	sw.		0.21	5.3	cloudy	J. H. Sherman.
New London, Connecticut	30.08	764.0	30.13	765.3	31	— 0.6	68	sw.	3	1.3		8 c	0	sw.		0.13	3.3	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.13	765.3	30.19	766.8	47.3	8.5	49	e.	12	5.4		0	0			0	0	clear	L. Dunne.
Newport, Rhode Island	30.02	762.5	30.07	763.8	32.6	0.3	69	sw.	9	4.0		3 c	6 ks	w.	sw.	0.69	17.5	cloudy	W. McGillivray.
New York, New York	29.98	761.5	30.17	766.3	28	— 2.2	54	w.	8	3.6		4 cs	2 s	w.		0.21	5.3	fair	J. B. Merrill.
Norfolk, Virginia	30.25	768.3	30.28	769.1	44	6.7	90	nw.	3	1.3		0	hz.			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.23	691.0	30.33	770.4	12.6	—10.8	85	ne.	12	5.4			10 n			0.22	5.6	light snow..	E. F. Brady.
Olympia, Washington T'y	29.95	760.7	29.99	761.7	36.0	2.2	79	s.	1	0.4			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	29.30	744.2	30.57	776.5	9.3	—12.6	72	s.	2	0.9			10 s			0	0	cloudy	A. Pollak.
Ooglaamie, Alaska	30.24	768.1	30.26	768.6	—12.0	—24.4		e.	12	5.4		0	0			0.02	0.5	clear	P. H. Ray.
Oswego, New York	29.75	755.6	30.10	764.5	21.5	— 5.8	42	w.	22	9.8		0	2 ks		w.	0.02	0.5	clear	J. G. Linsley.
Palestine, Texas	29.59	751.6	30.17	766.3	41.5	5.3	50	ne.	12	5.4		0	8 k		s.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.21	767.3	30.24	768.1	47.0	8.3	52	ne.	12	5.4		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.11	764.8	30.22	767.6	32	0.0	50	w.	10	4.5	4		10 s		w.	0.18	4.6	cloudy	E. M. Mattison.
Pike's Peak, Colorado	17.37	441.2	30.09	764.3	7	—13.9	69	w.				0	4 ks		w.	0	0	fair	H. Hall.
Pioche, Nevada	23.62	599.9	29.78	756.4	35	1.7	49	s.	16	7.2		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.50	749.3	30.36	771.1	17.0	— 8.3	83	sw.	12	5.4	4	0	0			0.02	0.5	clear	W. A. Reid.
Poplar River, Montana	28.02?	711.7?	30.37?	771.4?				nw.				0	0			0	0	clear	W. O. Maxwell.
Port Eads, Louisiana	30.18	766.6	30.19	766.8	54.0	12.2	90	ne.	10	4.5		0	0			0	0	clear	H. B. Boyer.
Port Huron, Michigan	29.57	751.1	30.30	769.6	8.0	—13.3	87	w.	12	5.4		9 cs	0	w.		0	0	cloudy	W. O. Bailey.
Portland, Maine	29.93	760.2	29.98	761.5	30	— 1.1	56	w.	9	4.0		0	0			0.35	8.9	clear	W. W. Elchelberger.
Portland, Oregon	29.88	758.9	29.95	760.7	33.2	0.7	88	e.	10	4.5	2		10 s		e.	0.40	11.7	threatening	M. L. Hearne.
Portsmouth, N. C.					47	8.3	86	n.				0	hz.			0.03	0.8	clear	F. S. Coburn.
Prescott, Arizona	24.55	623.6	29.91	759.7	43	6.1	43	sw.	5	2.2		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.01	762.2	30.04	763.0	32	0.0	68	w.	8	3.6		0	9 s		w.	0.12	3.0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.15	765.8	30.16	766.1	65	18.3	90	ne.	8	3.6		0	1 s			0.04	1.0	clear	W. J. Evans.
Red Bluff, California	29.48	748.8	29.85	758.2	41	5.0	48	nw.	20	8.9		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.45	748.0	30.16	766.1	12	—11.1	89	w.	23	10.3			10 n		w.	0.01	0.3	light snow..	E. W. McGann
Roseburg, Oregon	29.42	747.3	30.00	762.0	33	0.6	88	calm	0	0		0	5 s		w.	0.44	11.2	fair	J. J. Naury.
Sacramento, California	29.75	755.6	29.83	757.7	46.5	8.1	77	sw.	7	3.1		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.93	760.2	30.57	776.5	10.0	—12.2	80	n.	10	4.5			10 s		n.	inap.	inap.	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.35	770.9	30.38	771.6	30	— 1.1	100	calm	0	0		0	9 s		s.	0.19	4.8	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.58	751.3	30.52	775.2	—23.1	—30.6	100	sw.	7	3.1		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.60	751.8	30.57	776.5	—35	—37.2	100	nw.	6	2.7		0	0			0	0	clear	C. B Dilley.
Salt Lake City, Utah	25.19	639.8	29.75	755.6	34	1.1	72	nw.	8	3.6			10 s			0.20	5.1	cloudy	J. Craig.
San Antonio, Texas	29.30	744.2	30.02	762 5	55.0	12.8	93	se.	3	1.3			fg.			0	0	dense fog	T. J. Kenan.
San Diego, California	29.78	756.4	29.85	758.2	52.1	11.2	86	se.	4	1.8			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.62	752.3	30.34	770.6	7.3	—13.7	76	nw.	17	7.6		0	0			0.01	0.3	clear	M. H. Perry.
Sandy Hook, New Jersey	30.14	765.5	30.18	766.6	28.0	— 2.2	54	w.	20	8.9		8 k	0			0.10	2.5	cloudy	B. A. Blundon.
San Francisco, California	29.88	758.9	29.94	760.5	46	7.8	68	nw.	13	5.8		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.00	584.2	30.08	764.0	34	1.1	61	se.	6	2.7		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.19	766.8	30.28	769.1	46	7.8	47	nw.	10	4.5		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.70	678.2	30.56	776.2	—10	—23.3	100	n.	12	5.4			10 s			0.05	1.3	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.98	761.5	30.23	767.8	36	2.2	61	e.	10	4.5		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.87	733.3	30.18	766.6	24	— 4.4	73	n.	1	7.6			10 s			0	0	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.13	612.9	29.98	761.5	27.5	— 2.5	79	n	1	0.4		0	0			0	0	clear	N. D. Lane.
Sitka, Alaska	30.09	779.5	30.70	781.3	20	— 6.7	62	ne.	4	1.8		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.83	757.7	30.23	767.8	28.5	— 1.9	66	e.	8	3.6		0	0			0	0	clear	J. B. Campbell.

STATIONS.	Barometer: Corrected for instrumental error and for temperature. Inch.	Barometer: Corrected for instrumental error and for temperature. Mill.	Barometer: Reduced to sea-level. Inch.	Barometer: Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Smithville, North Carolina	30.21	767.3	30.25	768.3	42	5.6	73	n.	6	2.7	.....	1 c	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.03	711.9	30.16	766.1	15	— 9.4	91	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Springfield, Illinois	29.85	758.2	30.58	776.7	6	—14.4	80	nw.	4	1.8	.....	2 cs	8 s	w.	sw.	0	0	cloudy	T. B. Jennings.
Springfield, Missouri	28.90	734.0	30.41	772.4	18.5	— 7.5	78	ne.	18	8.0	.....	.....	10 s	.....	n.	0	0	cloudy	J. H. Bryce.
Starkville, Miss.	29.86	758.4	30.36	771.1	30	— 1.1	88	n.	10	4.5	.....	0	3 s	.....	.....	0	0	clear	C. Dill.
Stevenson, Fort, Dakota	28.58	725.9	30.60	777.2	—24	—31.1	100	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Stockton, Fort, Texas	26.89	683.0	30.02	762.5	30	— 1.1	70	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass.	29.99	761.7	30.05	763.3	30.0	— 1.1	78	w.	15	6.7	.....	5 c	0	w.	.....	0.90	22.9	fair	G. Liebmann
Thomas, Camp, Arizona	27.12	688.6	29.96	761.0	29	— 1.7	88	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.64	752.8	30.38	771.6	7	—13.9	69	sw.	6	2.7	.....	0	6 k	.....	w.	inap.	inap.	fair	A. Buell.
Tucson, Arizona	27.40	695.9	29.88	758.9	42	5.6	60	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside
Umatilla, Oregon	29.69	754.1	30.07	763.8	21	— 6.1	84	ne.	28	12.5	.....	0	0	.....	.....	0	0	clear	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	30.4	— 0.9	41	n.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	30.02	762.5	30.29	769.4	36.0	2.2	54	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	James Keneally.
Visalia, California	29.60	751.8	29.98	761.5	46.7	8.2	87	se.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	O. D. Stewart
Washakie, Fort, Wyoming	24.30	617.2	30.06	763.5	2.2	—16.6	89	se.	14	6.3	.....	.....	10 n	.....	.....	0.45	11.4	light snow	T. M. Ambler.
Washington, D. C.	30.14	765.5	30.26	768.6	32.4	0.2	61	nw.	6	2.7	.....	0	1 s	.....	nw.	0	0	clear	B. M. Purssell.
West Las Animas, Colorado	25.81	655.6	29.94	760.5	12.5	—10.8	91	sw.	15	6.7	.....	0	0	.....	.....	0.08	2.0	clear	F. H. Brandenburg
Williamsport, Pa.	29.56	750.8	30.19	766.8	23.8	— 4.6	73	w.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	B. F. Hough.
Wilmington, N. Carolina	30.21	767.3	30.27	768.8	44	6.7	76	n	3	1.3	.....	0	0	.....	.....	0	0	clear	Samuel A. Haney
Winnemucca, Nevada	25.26	641.6	29.78	756.4	24.0	— 4.4	76	ne.	8	3.6	.....	0	10 n	.....	w.	0.08	2.0	light snow	J. Grover.
Yankton, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. H. Atfield.
Yuma, Arizona	29.58	751 3	29.73	755.1	46.8	8.2	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.01	559.0	.....	.....	49.0	9.4	70	e.	2	0.9	.....	2 c	4 s	w.	nw.	0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.09	764.3	30.10	764.5	68	20.0	88	n.	1	0.4	.....	0	1 s	.....	e.	0	0	clear	Robert Johnston.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	76	24.4	91	e.	.....	.....	3	.....	8 ks	.....	e.	0.180	4.6	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Colombia	29.35	745.5	29.91	759.7	78	25.6	84	calm	.....	.....	0	.....	10 ks	.....	s.	0	0	threatening.	Francisco J. Cisnero.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75.8	24.3	93	ne.	.....	.....	3	0	1 ks	.....	ne.	0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.67	779.0	30.73	780.5	25	— 3.9	73	calm	.....	.....	0	7 cs	0	.....	.....	0	0	cloudy	W. J. Fisher.
St. Thomas, W. I.	30.04	763.0	30.17	766.3	75	23.9	82	e.	.....	.....	.....	k	3 k	e.	e.	0.03	0.8	fair	Aug. Wallon.
Havanna, Cuba	30.02	762.5	30.08	764.0	69.8	21.0	90	se.	4	1.8	.....	8c k cs	0	s.	.....	0	0	cloudy	Benito Vines, S. J.
York Factory, B. A.	30.33	770.4	30.40	772.1	—33 0	—36.1	.....	nw.	24	10.7	.....	.....	10 n	.....	nw.	0	0	hazy	Fortesque & Wood.

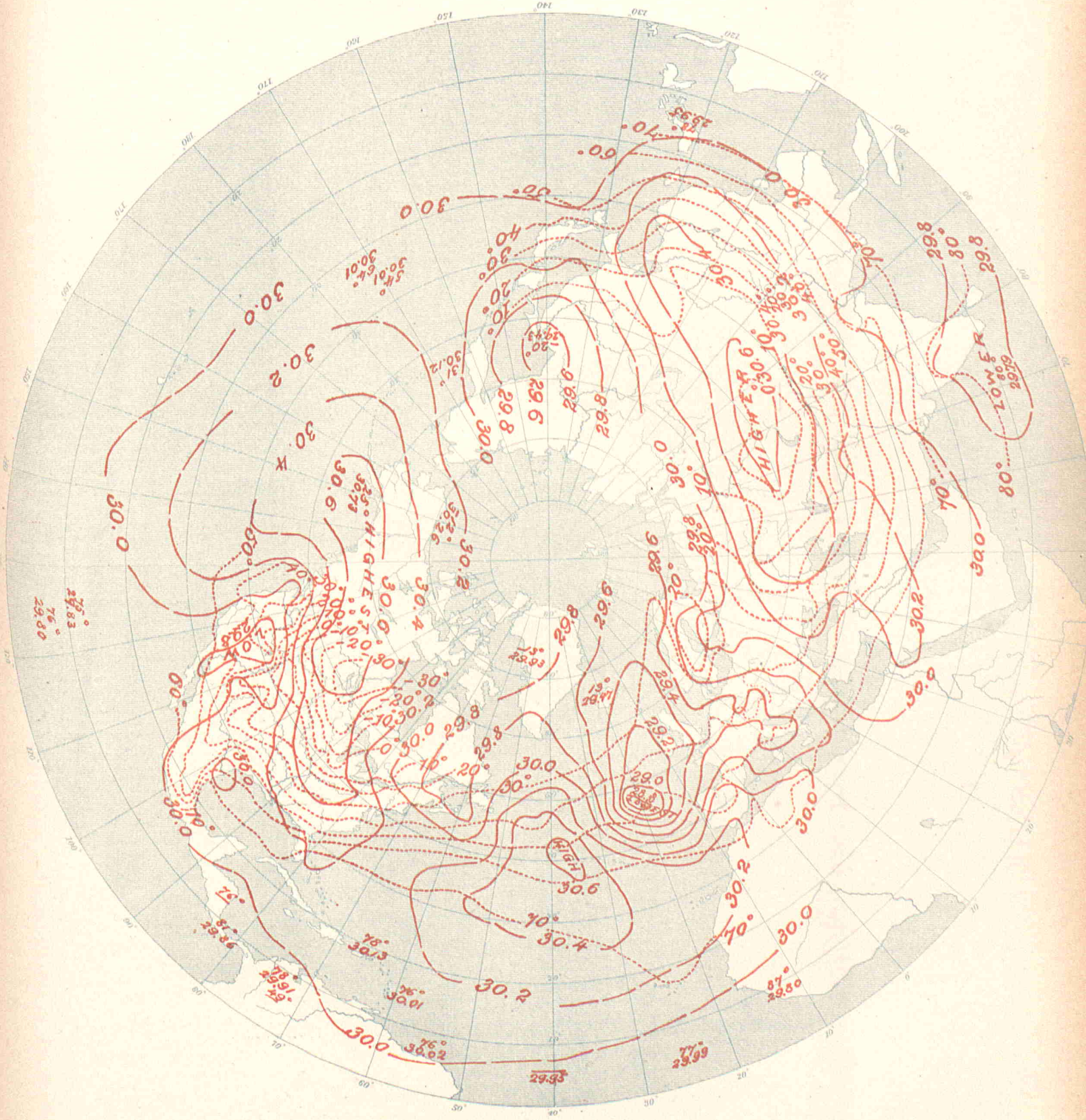
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION	Barometer reduced to sea-level. Inch.	Barometer reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Sea-swell. Character.	Sea-swell. Direction from	Weather.
District No. 1—North Atlantic																		
H. M. Dock-Yard, Bermuda, W. I.	30.16	766.1	68.5	20.3	97	sse.	.....	.....	2–3	.....	10	sse.	.....	.....	.....	.....	.....	squally.
H. M. S. Iron Duke, N. 34° 27′ E. 24° 35′	30.16	766.1	60	15.6	76	ssw.	.....	.....	4–5	.....	5	wsw.	.....	.....	.....	3	ssw.	d. clouds.
H. M. S. Monarch Port Said, Egypt	30.21	767.3	71	21.7	57	wsw.	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Tyne, Sierra Leone, Africa	29.90	759.4	81	27.2	78	nne.	.....	.....	1–2	.....	.....	.....	.....	.....	.....	.....	.....	misty.
U. S. Navy Yard, Portsmouth, N. H*	30.01	762.2	25	— 3.9	?	w.	6	2.7	.....	.....	2	.....	sw.	0.2	5.	.....	.....	fair.
U. S. S. Alliance, N. 15° 50′, W. 81° 36′	29.94	760.5	79	26.1	90	ene.	.....	.....	5	.....	5	.....	.....	light	light	mod.	.....	fair.
U. S. S. Enterprise, N. 16° 58′, W. 25° 32′ *	30.16	766.1	69	20.6	90	ene.	.....	.....	4	.....	5	.....	e.	.....	.....	long	ene.	fair.
U. S. S. Jamestown, N. 31° 50′ W. 52° 35′	30.48	774.2	69	20.6	79	se.	....	.....	3	.....	5	.....	se.	.....	.....	sm'h	se.	fair.
U. S. S. Kearsarge, Curacoa Island, W. I	30.02	762.5	79	26.1	95	ene.	.....	.....	3	.....	5	.....	e.	.....	.....	sm'h	.....	fair.
U. S. S. Lancaster, N 39° 55′, E. 3° 19′	29.79	756.7	57	13.9	81	nw.	.....	.....	6	.....	0	.....	.....	.....	.....	mod.	nw.	clear.
U. S. S. Nipsic, N. 23° 38′, W. 25° 06′	30.31	769.9	69	20.6	65	ene.	.....	.....	5	.....	10	.....	e.	.....	.....	mod	e.	cloudy.
U. S. S. Portsmouth, N. 20° 42′, W. 56° 37′	30.21	767.3	76	24.4	81	e.	.....	.....	5	.....	5	.....	e.	.....	.....	long	ese.	fair.
U. S. S. Quinnebaug, Villefranche, France	29.56	750.8	56	13.3	62	sw.	.....	.....	2	.....	8	.....	calm	.....	.....	.....	.....	fair.
U. S. S. St. Louis, League Island, Pa.	30.16	766.1	30	— 1.1	78	nw.	7	3.1	.....	.....	8	.....	.....	0	0	.....	.....	cloudy.
U. S. S. Tennessee, St. Thomas Island, W. I*	30.11	764.8	76	24.4	85	e.	4	1.8	.....	.....	5	.....	ne.	0.03	0.8	.....	.....	showery.
U. S. S. Vandalia, Cape Haytien, Hayti, W. I*	30.07	763.8	76	24.4	90	se.	.....	.....	1	.....	8	.....	sw.	.....	.....	.....	.....	fair.
U. S. S. Yantic, Belize, British Honduras	30.03	762.7	78	25.6	95	ene.	.....	.....	3	.....	2	.....	.....	.....	.....	.....	.....	fair.
S. S. Illinois, N. 45° 54′, W. 43° 00′	30.53	775.4	37	2.8	90	n.	.....	.....	3	.....	2	.....	n.	.....	.....	mod.	s.	fair.
S. S. Indiana, Philadelphia, Pa.	.....	.....	32	0.0	79	w.	.....	.....	3	.....	8	.....	w.	0	0	.....	.....	cloudy.
S. S. Lord Clive, N. 46° 30′, W. 44° 00′	.....	.....	.....	.....	.....	n.	.....	.....	1	.....	3	.....	ne.	0	0	mod.	une.	fine
S. S. Lord Gough, N. 41° 53′, W. 64° 12′	30.00	762.0	37	2.8	.....	w.	.....	.....	4	.....	8	.....	w.	.....	.....	sm'h	.....	gloomy.
S. S. Ohio, Liverpool, Eng.	.....	.....	36	2.2	90	ese.	.....	.....	4	.....	8	.....	s.	.....	.....	.....	.....	cloudy.
S. S. Pennsylvania, N. 42° 50′, W. 59° 57′†	29.86	758.4	41	5.0	?	sw.	.....	.....	3	.....	fg.	.....	.....	9 h'r	9 h'r	r'gh	e.	dense fog.
S. S. Circassian, Mersey river, England*	29.48	748.8	.....	.....	.....	sse	.....	.....	4	.....	6	.....	s.	10 h'r	10 h'r	.....	.....	showery.
S. S. Grecian, N. 9° 40′, W. 27° 50′*	29.98	761.5	78	25.6	77	ene.	.....	.....	3	.....	5	.....	ene.	0	0	light	ne.	hazy.
S. S. Manitoban, Inishowen, Ireland	29.32	744.7	.....	.....	.....	s.	.....	.....	4	.....	5	.....	sw.	.....	.....	h'vy	nw.	fair.
S. S. Scandinavian, Boston, Mass	29.97	761.2	28	—2.2	.....	w.	.....	.....	3	.....	0	.....	.....	3½ h'r	3½ h'r	.....	.....	blue sky.
S. S. Ailsa, N. 10° 58′, W. 75° 04′†	29.99	761.7	84	28.9	91	ene.	.....	.....	6	.....	8	.....	ene.	0	0	mod.	ene.	cloudy.
S. S. Bolivia, N. 41° 26′, W. 65° 57′	30.06	763.5	38	3.3	.....	wsw.	.....	.....	3	.....	10	.....	w.	.....	.....	mod.	.....	cloudy.
S. S. Dorian, N. 42° 18′, W. 38° 10′	.....	.....	51	10.6	.....	wnw.	.....	.....	3	.....	10	.....	nw.	.....	.....	r'gh	nw.	fine.
S. S. Galatia, N. 36° 19′, W. 3° 43′†	30.09	764.3	62.3	16.8	60	nnw.	.....	.....	6	.....	0	.....	.....	.....	.....	r'gh	wnw.	clear.
S. S. Landaff City, N. 46° 50′, W. 46° 20′†	30.35	770.9	32	0.0	.....	wsw.	.....	.....	4	.....	8	.....	sw.	.....	.....	sm'h	.....	cloudy.
S. S. Bothnia, N. 40° 25′, W. 68° 38′	30.12	765.0	44	6.7	92	wsw.	.....	.....	4	.....	10	.....	w.	snow	snow	.....	w.	snowy.
S. S. Parthia, N. 49° 35′, W. 25° 01′	30.02	762.5	44	6.7	84	n.	.....	.....	7	.....	5	.....	nw.	rain	rain	high	nw.	squally.
S. S. Colina, N. 43° 20′, W. 37° 30′†	.....	.....	45	7.2	76	nnw.	.....	.....	6	.....	5	nw.	n.	16 h'r	16 h'r	h'vy	var.	squally.
S. S. Canada, N. 49° 30′, W. 20° 30′	30.46	773.7	.....	.....	.....	n.	.....	.....	9	.....	8	.....	ne.	0	0	mod.	nw.	cloudy.
S. S. Labradore, N. 48° 41′, W. 25° 28′	29.04	737.6	37.4	3.0	.....	ne.	.....	.....	7	.....	k	.....	ne.	.....	.....	h'vy	ne.	sprinkling.
S. S. Ville de Marseilles, N. 19° 04′, W. 80° 05′ †	30.20	767.1	41.0	5.0	.....	n.	.....	.....	9	.....	9	.....	nw.	snow	snow	h'vy	nne.	
S. S. Arizona, N. 48° 32′, W 33° 38′	30.20	767.1	80	26.7	.....	e.	.....	.....	5	.....	3	.....	ene.	0	0	sm'h	.....	clear.
S. S. Bohemia, Hamburg, Germany†	30.08	764.0	41	5.0	.....	nw.	.....	.....	5–7	.....	8	.....	nw.	.....	.....	high	nw.	hail squalls.
S. S. Rugia, N. 49° 37′ W. 31° 12′	29.63	752.6	.....	.....	.....	wsw.	.....	.....	5	.....	7 k	.....	sw.	0	0	.....	.....	fair.
S. S. Silesia, N. 52° 01′, E. 2° 59′†	29.59	751.6	42	5.6	.....	nnw.	.....	.....	8–9	.....	10	.....	nw.	.....	.....	r'gh	n.	squally.
S. S. Mentmore, N. 46° 00′, W 40° 09′ *†	30.60	777.2	42.5	5.8	96	sw.	.....	.....	2	.....	.....	.....	sw.	0	0	.....	.....	cloudy.
S. S. San Marcos, Galveston Bar, Texas	30.03	762.7	60	15.6	.....	n.	.....	.....	5	.....	8	.....	ne.	0	0	h'v'y	nw.	dull.
S. S. Chalmette, Algiers, La†	30.13	765.3	46	7.8	.....	e.	.....	.....	.....	.....	fg.	.....	.....	0	0	.....	.....	dense fog.
S. S. New York, N. 26° 50′. W. 79° 45′ †	30.23	767.8	75	23.9	.....	nne.	.....	.....	4	.....	2	.....	nne.	0	0	.....	.....	clear.
S. S. Lone Star, N. 38° 12′ W. 74° 26′ †	30.19	766.8	47	8.3	.....	ene.	.....	.....	4	.....	5	.....	e.	0	0	sm'h	.....	clear.
S. S. Hermod, N. 40° 05′, W. 63° 12′†	30.12	765.0	51.8	11	.....	n.	.....	.....	2	.....	10	.....	.....	0	0	mod.	s.	overcast.
S. S. Alleghany, N. 41° 20′, W. 70° 20′	.....	.....	30	—1.1	.....	nnw.	.....	.....	3	.....	4	.....	wsw.	2 h'r	2 h'r	long	var.	clearing.
S. S. Archimede, Palermo, Sicily†	29.63	752.6	60	15.6	.....	w.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Picqua, N. 39° 56′, W. 70° 34′	.....	.....	47	8.3	.....	wsw.	.....	.....	5	.....	5?	.....	w.	2 h'r	2 h'r	.....	.....	cloudy?
						w.	.....	.....	5	.....	3?	.....	w.	3 h'r	3 h'r	h'vy	se.	overcast.?

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Santiago, N. 33° 52′ W. 74° 36′	30.17	766.3	66	18.9	.....	wsw.	.....	.....	4	.....	2	.....	sw.	0	0	mod.	s.	clear.
S. S. Erin, N. 47° 12′, W. 42° 31′	30.42	772.7	38	3.3	.....	wnw.	.....	.....	6	.....	7	.....	w.	7 h'r	7 h'r	mod.	wsw.	
S. S. Greece, N. 44° 02′, W. 40° 16′	30.41	772.4	45	7.2	.....	nne.	.....	.....	4	.....	10	.....	nne.	0	0	h'vy	ne.	overcast.
S. S. Hermann, N. 47° 46′, W. 23° 15′	28.68	728.5	46.4	8.0	72	nnw	.....	.....	8–9	.....	10	.....	nnw.	10 h'r	10 h'r	8	nnw.	stormy.
S. S. Belgenland, Jersey City, N. J.*†	30.12	765.0	28	−2.2	67	wnw.	.....	.....	2	.....	4	.....	w.	4 h'r	4 h'r	.....	.....	fair.
S. S. Rhynland, Antwerp, Belgium	29.62	752.3	42	5.6	83	ssw.	.....	.....	2	.....	10	.....	ssw.	0	0	.....	.....	hazy.
S. S. Pennland, N. 45° 36′, W. 46° 39′	30.48	774.2	36	2.2	80	se.	.....	.....	5	.....	3	.....	w.	0	0	long	ne.	fine.
S. S. Switzerland, N. 43° 51′, W 57° 31′ †	29.85	758.2	.....	.....	.....	s.	.....	.....	5	.....	10	.....	s.	6 h'r	6 h'r	long	wnw.	misty.
S. S. Waesland, N. 50° 22′, W. 20° 12′	29.21	741.9	42	5.6	.....	nne.	.....	.....	7	.....	10	.....	ne.	10 h'r	10 h'r	h'vy	ne.	rainy.
S. S. Zeeland, N. 45° 00′, W. 43° 00′*†	30.52	775.2	38	3.3	.....	ene.	.....	.....	1	.....	1	.....	e.	0	0	h'vy	ene.	clear.
S. S. P. Caland, Bowershaven, Germany	29.46	748.3	39.0	3.9	90	sw.	.....	.....	4	.....	2	.....	sw.	.....	.....	.....	.....	
S. S. Schiedam, N 47° 32′ W. 33° 38′	30.16	766.1	46	7.8	.....	nnw.	.....	.....	9	.....	5	.....	nnw.	6 h'r	6 h'r	hv'y	nnw.	raining.
S. S. Zaandam, N. 45° 46′, W. 44° 45′	30.55	776.0	50.7	10.4	97	s.	.....	.....	4	.....	5 k	.....	w.	4 h'r	4 h'r	2	sw.	
S. S. Claudius, Greytown, Nicaragua, C. A†	30.05	763.3	74.5	23.6	98	wnw.	.....	.....	2	.....	8	.....	ne.	2 h'r	2 h'r	long	ne.	rainy.
S. S. Valencia, La Guayra, Venezuela†	30.05	763.3	79	26.1	82	ene.	.....	.....	2	.....	2	.....	e.	0	0	mod.	ne.	fine.
S. S. State of Florida, N. 48° 50′, W. 34° 23′	30.02	762.5	44	6.7	.....	n.	.....	.....	8	.....	5	.....	ne.	6 h'r	6 h'r	h'vy	nne.	fair.
S. S. State of Indiana, N. 53° 00′ W 20° 25′*†	29.50	749.3	39	3.9	.....	n.	.....	.....	7	.....	8	.....	nw.	8 h'r	8 h'r	mod.	n.	snow & hail
S. S. Marengo, N. 41° 10′, W. 68° 43′†	30.00	762.0	.....	.....	.....	wnw.	.....	.....	6	.....	10	.....	wnw.	0	0	mod.	wnw.	overcast.
S. S. Otranto, N. 40° 51′ W. 70° 20′†	29.94	760.5	35	1.7	.....	w.	.....	.....	4	.....	5?	.....	w.	.....	.....	short	w.	clear. ?
S. S. Romano, N. 40° 00′, W. 70° 39′*.	30.19	766.8	41	5.0	.....	wnw.	.....	.....	5	.....	10	.....	wnw.	4 h'r	4 h'r	long	w.	overcast.
S. S. Salerno, N. 49° 08′, W. 20° 14′ †	28.92	734.6	42	5.6	.....	ne.	.....	.....	9	.....	10	.....	ne.	2 h'r	2 h'r	h'vy	ne.	hailing.
S. S. Brooklyn, Mersey river, Eng*	29.34	745.2	.....	.....	.....	sse.	.....	.....	2	.....	.....	.....	se.	0	0	.....	.....	cloudy.
S. S. Dominion, N. 50° 15′, W. 35° 50′ *†	30.30	769.6	30	3.9	.....	nw.	.....	.....	5	.....	5	.....	nnw.	2 h'r	2 h'r	r'gh	nnw	squally.
S. S. Surrey, N. 47° 22′, W. 20° 47′†	28.88	733.5	47	8.3	.....	n.	.....	.....	7	.....	8	.....	n.	6 h'r	6 h'r	h'vy	n.	cloudy.
S. S. Lake Huron, N. 47° 05′, W. 37° 50′*	30.00	703.5	43	6.1	.....	nnw.	.....	.....	7	.....	8	.....	nnw.	6 h'r	6 h'r	mod.	nnw	
S. S. Plantyn, N. 51° 00′, E. 2° 22′	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	4?	.....	sw.	1 h'r	1 h'r	mod.	sw.	cloudy?
S. S. Aries, N. 40° 28′, W. 73° 10′ *†	30.20	767.1	.....	.....	.....	w.	.....	.....	5	.....	8	.....	wnw.	6 h'r	6 h'r	long	sse.	cloudy.
S. S. Catherine Whiting, Barnegat, N. J†	30.27	768.8	80	26.7	.....	nw.	.....	.....	5	.....	.....	.....	nw.	0	0	h'vy	e.	
S. S. Norman, N. 41° 25′, W. 71° 11′*.	30.10	764.5	.....	.....	.....	w.	.....	.....	10	.....	.....	.....	nw.	6 h'r	6 h'r	sm'h	.....	cloudy.
S. S. Saxon, Philadelphia, Pa†	30.22	767.6	.....	.....	.....	wnw.	.....	.....	4	.....	2	.....	nw.	.....	.....	.....	.....	fine.
S. S. Adriatic, N. 51° 11′, W. 14° 50′	.....	.....	43	6.1	.....	ne.	.....	.....	6	.....	10	.....	.....	5 h'r	5 h'r	long	w.	raining.
S. S. Britannic, N. 47° 20′, W. 46° 32′ †	30.22	767.6	32	0.0	100	ssw.	.....	.....	4	.....	8	.....	sw.	0	0	sm'h	w.	cloudy.
S. S. Republic, N. 48° 35′, W. 30° 41′†	30.00	762.0	40	7.8	84	n.	.....	.....	7	.....	9	.....	nw.	4 h'r	4 h'r	5	var.	snowy.
S. S. Iowa, N. 49° 55′, W. 25° 24′ *†	29.64	752.8	42	5.6	.....	nnw.	.....	.....	6	.....	2	.....	nnw.	11 h'r	11 h'r	cf'd	.....	clear.
S. S. Parthia, N. 49° 33′, W. 25° 16′	29.47	748.5	43 5	6.4	92	nnw.	.....	.....	6	.....	7	.....	.....	.....	.....	.....	.....	squally.
S. S. Antonio Lopez, N. 32° 20′, W. 15° 53′	30.28	769.1	63.5	17.5	72	nw.	.....	.....	3	.....	7	.....	.....	1 h'r	1 h'r	long	nw.	fair.
Schr. Abbie H. Ghesa, Georgetown, S. C †	30.27	768.8	42	5.6	.....	sw.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	clear.
Bg. Abbie Clifford, Havana, Cuba, W. I†	30.09	764.3	70	21.1	.....	calm	.....	.....	0	.....	2	.....	ne.	0	0	.....	.....	fair.
Bg. Alcira, Maracaybo, Venezuela, S. A	29.99	761.7	83	28.3	.....	ne.	.....	.....	2	.....	2	.....	ne.	0	0	.....	.....	clear.
Schr. Anna A. Holton, Tampico, Mexico†	30.03	762.7	72	22.2	.....	ne.	.....	.....	1	.....	2	.....	ne.	0	0	sm'h	.....	clear.
Schr. Annie R. Lewis, St. Pierre, Martinique, W. I †.	30.15	765.8	80	26.7	.....	ene.	.....	.....	1	.....	2	.....	ene.	light	light	.....	.....	clear.
Bk. Aureola, Appledore, Eng*†	29.60	751.8	48	8.9	.....	sse.	.....	.....	5	.....	7	.....	se.	0	0	gr'd	w.	threatening.
Bk. Achille F, N. 41° —′ W. 38° —′ †	30.58	770.7	52.5	11.4	86	n.	.....	.....	4	.....	9	.....	n.	0	0	long	nw.	cloudy.
S. Armenia, N. 38° 12′, W. 64° 20′	.....	.....	58	14.4	82	nw.	.....	.....	5	.....	8	.....	nw.	3 h'r	3 h'r	cross	var.	
Bg. Belle of the Bay, N. 29° 06′, W. 88° 48′†	30.15	765.8	.....	.....	.....	e.	.....	.....	5	.....	2	.....	e.	0	0	long	ene.	clear.
Bk. Bremen, N. 22° 52′, W. 55° 12′ *	30.25	768.3	.....	.....	.....	e.	.....	.....	5	.....	4	.....	e.	snow	snow	mod	e.	fair.
Bkt. Bonny Doon, N. 25° 28′, W. 50° 40′*†	30.28	769.1	.....	.....	.....	e.	.....	.....	4	.....	2	.....	ese.	0	0	long	e.	fair.
Bk. Bare, N. 35° 15′, W. 53° 15′†	.....	.....	69	20.6	.....	sse.	.....	.....	4	.....	3	.....	s.	0	0	sm'h	var.	hazy.
Bk. Champion, N. 39° 00′, W. 74° 20′	.....	.....	59	15.0	.....	nw.	.....	.....	5	.....	2	.....	nnw.	0	0	long	ese.	clear.
Bkt. G. S. Bushnell, N. 37° 50′, W. 39° 45′	30.58	770.7	.....	.....	.....	ene.	.....	.....	3	.....	8	.....	e.	0	0	h'vy	n.	fine.
S. Cornelius, N. 57° 43′, E. 0° 05′†	29.45	748 0	41.0	5.0	.....	sw.	.....	.....	5	.....	4?	.....	w.	4 h'r	4 h'r	sm'h	....	snow & hail
Bk. Commerce, Cadiz, Spain†	30.13	765.3	63	17.2	.....	s.	.....	.....	1	.....	2	.....	sw.	0	0	.....	.....	fine.
Bk. Ceres, N. 33° 24′, W. 41° 33′*	30.50	774.7	66.2	19.0	86	wsw.	.....	.....	2	.....	2	.....	calm	0	0	long	nw.	clear.
Bk. Chas. Stewart, N. 40° 00′, W. 70° 0′†	30.21	767.3	44	6.7	.....	wnw.	.....	.....	4	.....	10	.....	wnw.	4 h'r	4 h'r	mod.	var.	light rain.
S. S. D. J. Foley, N. 29° 02′, W. 74° 51′ *†	30.18	766.0	71	21.7	90	n.	.....	.....	2	.....	7	.....	n.	1 h'r	1 h'r	sm'h	n.	fair.
Schr. Edith R. Seward, N. 18° 30′, W. 67° 33′†	30.17	766.3	80	26.7	.....	ese.	.....	.....	2	.....	2	.....	ese.	0	0	mod	se.	clear.
S. E. J. Spicer, N. 45° 43′, W. 19° 30′	28.75	730.2	54	12.2	100	nw.	.....	.....	8	.....	10	.....	nw.	18 h'r	18 h'r	high	nw.	heavy rain.
Bk. E. D. Bigelow N. 42° 30′, W. 30° 00′ *†	30.00	702 0	.....	.....	.....	nnw.	.....	.....	8	.....	2	.....	nnw.	0	0	cross	nnw.	squally.
S. E. B. Sutton, N. 3° 30′, W. 25° 40′ †	29.99	701.7	77	25.0	92	se.	.....	.....	1	.....	10	.....	ene.	3 h'r	3 h'r	r'gh	var.	light rain.
S. Festina Lente, N. 58° 07′, E. 0° 12′	29.58	751.3	41	5.0	.....	ssw.	.....	.....	4	.....	10	.....	sw.	snow	snow	sm'h	ssw.	squally.
S. Grecian, N. 8° 35′, W. 31° 50′†	30.00	702.0	70	24.4	81	ne.	.....	.....	6	.....	2	.....	ne.	0	0	mod.	ne.	hazy.
Bk. Gray Eagle, N. 4° 14′, W. 41° 40′*†	29.85	758.2	.....	.....	.....	ne.	.....	.....	5	.....	5	.....	ne.	light	light	h'vy	ne.	threatening.
Bg. George, Ponce, Porto Rico, W. I*†	30.22	767.6	.....	.....	.....	ne.	.....	.....	3	.....	2	.....	.....	0	0	sm'h	.....	fair.
Bk. Heinrich & Tonio, N. 29° 03′, W. 55° 20′†	30.33	770.4	77	25.0	.....	e.	.....	.....	3	.....	.....	.....	.....	0	0	light	e.	clear.
Schr Hattie Weston, N. 10° 06′, W. 61° 20′*†	30.08	764.0	78	25.6	.....	ene.	.....	.....	2	.....	2	.....	ene.	0	0	short	e.	fair.
Bk. Hattie G. McFarland, N. 17° 24′, W. 75° 14′*†	30.18	766.6	80	26.7	.....	e.	.....	.....	4	.....	6	.....	e.	2 h'r	2 h'r	long	e	showery.
Bk. Horace Scudder N. 33° 12′. W. 58° 30′*†	30.39	771.9	68	20.0	.....	s.	.....	.....	5	.....	10	.....	s.	½h'r	½h'r	.....	sw.	cloudy.
S. S. J. W. Wilson, Brazos, Santiago, Texas *†	29.91	759.7	65	18.3	.....	se.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Johanne, N. 22° 19′, W. 60° 13′ *†	30.19	766.8	78	25.6	.....	ne.	.....	.....	5	.....	5	.....	.....	2 h'r	2 h'r	mod.	ne.	fine.
Schr. John L. Thomas, Vivorilla Cays, C. A*†	30.08	764.0	.....	.....	.....	ene.	.....	.....	4	.....	2	.....	ene.	½h'r	½h'r	.....	.....	clear.
Bg. L. & W. Armstrong, N. 33° 46′, W. 64° 55′*†	30.24	768.1	.....	.....	.....	sw.	.....	.....	4	.....	8	.....	sw.	2 h'r	2 h'r	mod.	ssw.	misty.
Bg. Lilian, N. 36° 26′, W. 75° 31′†	30.22	767.6	49	9.4	.....	nw.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	var.	clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3	.....	.....	.....	.....	.....	.....	1	.....	3	.....	e.	1 h'r	1 h'r	.....	.....	fine.
Bg. Mary A. Troop, Lundy Island, Eng*†	29.40	749.7	.....	.....	.....	ssw.	.....	.....	5	.....	5	.....	sse.	0	0	.....	.....	threatening
Schr. Minnie A. Bonsall, Mayport, Fla †	30.30	769.6	64	17.8	.....	nne.	.....	.....	1	.....	5	.....	nne.	0	0	.....	.....	fair.
Bg. Myrtle, Saint Thomas, W. I*†	29.95	760.7	.....	.....	.....	ene.	.....	.....	3	.....	2	.....	ene.	2 h'r	2 h'r	.....	.....	fair.
Bkt. Norena, Matanzas, Cuba, W. I *†	30.18	766.0	.....	.....	.....	wsw.	.....	.....	1	.....	2	.....	n.	0	0	.....	.....	fine.
Schr. Ocean Traveler, St. John's, Antigua, W. I†	30.08	764.0	.....	.....	.....	e.	.....	.....	3	.....	4	.....	.....	.....	.....	.....	.....	fair.
Bk. Ottawa, Alicante, Spain*	30.00	762.0	57	13.9	.....	wnw.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	clear.
Schr. Pearl Nelson, Navassa Island, W. I*†	30.02	762.5	.....	.....	.....	e.	.....	.....	6	.....	.....	.....	light	light	h'vy	ne.	fine.
S. S. Raleigh, N. 35° 35′ W. 75° 15′ †	30.17	766.3	52	11.1	.....	n.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bk. Reindeer, St. Pierre, Martinique, W. I*.	30.07	763.8	.....	.....	.....	ene.	.....	.....	6	.....	.....	.....	ene.	.....	.....	.....	.....	squally.
S. Rudolph, N. 41° 21′ W. 29° 45′	.....	.....	58.0	14.4	.....	nw.	.....	.....	7	.....	6	.....	nw.	2 h'r	2 h'r	h'vy	n.	squally.
Bk. Saga, N. 41° 51′, W. 47° 09′	.....	.....	50	10.0	.....	se.	.....	.....	3	.....	7	.....	wnw.	.....	.....	6	var.	rainy.
Bk. Sunbeam, Lisbon, Portugal †	30.10	764.5	59	15.0	93	sw.	.....	.....	6	.....	10	.....	w.	0	0	.....	.....	cloudy.
Bk. Usko, Belfast Lough, Ireland	.....	.....	.....	.....	.....	var.	.....	.....	1–2	.....	9	.....	.....	0	0	..	.....	cloudy.
Schr. Wm. Wiler, Pointe a Pitre, Guadeloupe, W I†	30.03	762.7	.....	.....	.....	e.	.....	.....	1	.....	2	.....	e.	0	0	.....	.....	fine.
District No. 2—South Atlantic.																		
H. M. S. Heroine, Montevideo, Uruguay	29.86	758.4	64	17.8	100	s.	.....	.....	3	.....	4	s.	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Fawn, S. 5° 31′ W. 17° 20′	29.90	759.4	79	26.1	90	e.	.....	.....	2-3	.....	1	.....	.....	.....	.....	2	ese.	blue sky
U. S. S. Brooklyn, S. 38° 46′ W. 56° 40′*	29.81	757.2	61	16.1	82	nw.	13	5.8	.....	.....	0	.....	.....	0	0	long	nw.	clear.
U. S. S. Galena, Montevideo, Uruguay*	29.89	759.2	65	18.3	62	s.	.....	.....	4	.....	0	.....	.....	.....	.....	mod.	s.	clear.
S. S. Archimedes, S 11° 29′, W. 36° 44′	29.90	759.4	.....	.....	.....	ese.	.....	.....	2	.....	1	.....	e.	0	0	light	var.	clear.
S. S. Hevelius, S. 32° 00′, W. 49° —′ †	29.92	760.0	70	21.4	.....	ssw.	.....	.....	8	.....	10	.....	s.	2 h'r	2 h'r	high	n.	raining.
S. S. Auckland, S. 24° 26′, W. 16° 53′	30.07	763.8	78	25.6	65	ese.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	.....	blue sky.
S. S. City of Agra, S. 13° 29′, W. 32° 47′	30.03	762.7	82.5	28.1	89	nne.	.....	.....	5	.....	0	.....	.....	.....	.....	.....	.....	d. clouds
S. S. Caldew, S. 35° 12′, E. 18° 14′	29.95	760.7	68	20.0	93	nw.	.....	.....	5	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. May Hulse, S. 40° 05′, W. 57° 07′	29.79	759.7	64.3	16.8	75	wnw.	.....	.....	5	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Ambrose, Para, Brazil†	30.00	762.0	81	27.2	.....	var.	.....	.....	1–2	.....	3	.....	ne.	1 h'r	1 h'r	.....	.....	fine.
Bk. Anna Thormann, S. 3° 40′, W. 22° 57′*	29.97	761.2	80.2	26.8	76	se.	.....	.....	4	0	3 k	.....	se.	shr's	shr's	mod.	se.	fair.
Bg. Annie R. Storer S. 21° 16′, W. 33° 10′*†	30.20	767.1	.....	.....	.....	n.	.....	.....	4	.....	5	.....	nne.	2 h'r	2 h'r	mod.	ene.	squally.
Bk. Edmund Phinney, S. 41° —′, W. 52° 40′ †	29.72	754.9	59	15.0	.....	sw.	.....	.....	0	.....	5	.....	sw.	8 h'r	8 h'r	h'yy	ssw.	fair.
S. S. Braunschweig, S. 3° 04′ W. 34° 34′	29.91	759.7	82.0	27.8	83	ese.	.....	.....	3	.....	3	.....	ese.	0	0	light	ese.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2—South Atlantic.—Continued.																		
Bk. E. L. Pettingill, S. 49° 52′, W. 51° 16′ *†	29.30	744.2	44	6.7	.....	sw.	.....	.....	4	.....	8	.....	sw.	8 h'r	8 h'r	mod.	sw.	
S. Geo. Stetson, S. 40° —′, W. 52° —′ *†	29.65	753.1	61	16.1	77	sw.	.....	.....	6	.....	4?	.....	sw.	light	light	chop	sw.	cloudy.?
Bkt. Josephine, S. 36° 05′, W. 2° 02′†	29.98	761.5	71	21.7	75	se.	.....	.....	3	.....	8	.....	.....	2 h'r	2 h'r	r'gh	ese.	cloudy.
S. M. P. Grace, S. 1° 17′, W. 32° 09′ *	29.86	758.4	79	26.1	.....	ese.	.....	.....	4	.....	3	.....	ese.	slight	slight	con.	n;e.	squally.
S. Titan, S. 8° 17′, W. 33° 31′*†	30.00	762.0	82	27.8	87	se.	.....	.....	4	.....	1	.....	se.	0	0	sm'h	se.	fine.
Bk. Wandering Jew, Montevideo, Uruguay †	29.96	761.0	65	18.3	.....	s.	.....	.....	7	.....	3	.....	s.	6 h'r	6 h'r	.....	.....	clear.
S. Sacramento, S. 36° 06′, W. 19° 04′*†	30.33	770.4	73	22.8	67	e.	.....	.....	2	.....	5	.....	e.	0	0	mod.	sw.	fine.
District No. 3—North Pacific.																		
S. S. Arabic, N 35° 17′, E. 166° 46′ *†	30.11	764 8	54	12.2	100	var.	.....	.....	1	.....	10	.....	nw.	light	light	mod	n.	overcast.
S. S. Belgic, Hong Kong, China *†	30.03	762.7	56	13.3	81	nw.	.....	.....	2	.....	10	.....	n.	0	0	sm'h	.....	overcast.
S. S. Gaelic, N. 31° 39 , E. 133° 27′	29.97	761.2	57	13.9	94	nne.	.....	.....	4	.....	8	.....	ene.	2 h'r	2 h'r	.....	n.	cloudy.
S. S. Oceanic, N. 36° 59′, W. 130° 43′*	30.26	768.6	51	10.6	86	n.	.....	.....	6	.....	5	.....	nw.	.....	.....	light	nw.	fair.
S. S. Columbia, N. 40° 24′, W. 124° 35′†	30.01	762.2	44	6.7	72	nw.	.....	.....	5	.....	2	.....	nw.	.....	.....	mod.	nw.	clear.
S. S. Oregon, San Francisco, Cal †	29.93	760.2	45	7.2	92	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Mississippi, N. 47° 34′, W. 124° 48′ †	29.95	760.7	34	1.1	90	e.	.....	.....	5	.....	7	.....	e.	.....	.....	mod.	w.	light snow.
S. S. Willamette, N. 39° 23′, W. 124° 12′†	30.07	763.8	38	3.3	90	n.	.....	.....	6	.....	6	.....	n.	0.04	1.0	r'gh	nnw.	squally.
S. S. Ancon, San Francisco, Cal †	29.89	759.2	45	7.2	76	w.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	
S. S. City of Chester, Off Point Arenas, Cal *†	29.96	761.0	46	7.8	84	nw.	.....	.....	6	.....	5	.....	nw.	hail	hail	h'vy	sw.	fair.
S. S. Dakota, N. 43° 41′, W. 124° 38′*†	30.01	762.2	47	8.3	77	nw.	.....	.....	6	.....	5?	.....	nw.	0	0	mod.	nw.	clear ?
S. S. G. W. Elder, N. 42° 40′, W. 124° 52′†	30.09	764.3	39	3.9	82	nw.	.....	.....	2	.....	2	.....	nw.	.....	.....	long	w.	clear.
S. S. Orizaba, N. 33° 43′, W. 118° 15′*†	29.80	756.9	54	12.2	87	ese.	.....	.....	6	.....	0	.....	.....	0	0	long	sw.	clear.
S. S. Queen of the Pacific, N. 43° 40′, W. 124° 35′ †	29.94	760.5	.....	.....	.....	sw.	.....	.....	3	.....	5?	.....	.....	.....	.....	.....	nw.	cloudy ?
S. S. State of California, Portland, Oregon†	29.96	761.0	32	0.0	?	e.	.....	.....	3	.....	10	.....	e.	.....	.....	.....	.....	cloudy.
S. S. City of Pekin, Yokohama, Japan†.	30.03	762.7	40	4.4	39	n.	.....	.....	4	.....	10	.....	n.	.....	.....	.....	.....	overcast.
S. S. City of Tokio, N. 32° 32′, E. 170° 51′†	29.91	759.7	64	17.8	89	ese.	.....	.....	2	.....	8	.....	e.	light	light	small	se.	hazy.
S. S. City of Rio de Janeiro, N. 7° 49′ W. 83° 02′..	.....	.....	81	27.2	78	nw.	.....	.....	1	.....	1	.....	e.	0	0	light	sw.	clear.
S. S. Grenada, N. 7° 08′, W. 81° 12′†	29.80	756.9	79	26.1	78	nne.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
H. M. S. Curacoa, Yokohama, Japan	.....	.....	41.5	5.3	58	ese.	.....	.....	1	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.94	760.5	66	18.9	.....	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
U. S. Naval Hospital, Yokohama, Japan*	30.11	764.8	38	3.3	48	nw.	.....	.....	2	.....	10	.....	w.	0	0	.....	.....	cloudy.
U. S. S. Independence, Mare Island, Cal	29.96	761.0	46	7.8	76	wnw.	.....	.....	6	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Lackawanna, Honolulu, Sandwich Island*	29.92	760.0	68	20.0	74	ne.	.....	.....	2	.....	2	.....	e.	.....	.....	.....	.....	clear.
U. S. S. Monocacy, N. 32° 17′, E. 128° 29′	30.09	764.3	48	8.9	63	nw.	.....	.....	4	.....	10	.....	nw.	.....	.....	mod	nnw.	cloudy.
U. S. S. Palos, Tientsin, China*	30.36	771.1	19	—7.2	100	n.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Ranger, N. 32° 25′, W. 117° 10′	29.88	758.9	55	12.8	87	se.	.....	.....	4	.....	10	.....	calm	0	0	sm'h	.....	cloudy.
U. S. S. Richmond, Hong-Kong, China*	30.02	762.5	57	13.9	94	sse.	.....	.....	1	.....	10	.....	s.	0.08	2.0	.....	.....	raining.
U. S. S Wachusetts, N. 23° 29′ W. 150° 22′	30.00	762.0	72	22.2	90	se.	.....	.....	4	.....	2	.....	se.	.....	.....	mod.	ese	fair.
Bk. Childwall, N. 10° 50′, W. 125° 36′ *	29.83	757.7	75	23.9	.....	ne.	.....	.....	5	.....	9	.....	ne.	0	0	cross	ne.	overcast.
British Merchant, N. 6° 36′, W. 124° 41′	29.80	756.9	75.8	24.3	92	ese.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	.....	showery.
Tamega, Macao, China	30.17	766.4	51.8	11.0	81	ssw.	.....	.....	5	.....	10	.....	.....	4 h'r	4 h'r	.....	.....	raining.
District No. 4—South Pacific.																		
H. M. S. Comus, S. 12° 05′, W. 77° 12′	29.95	760.7	66	18.9	92	sse.	.....	.....	1	.....	8	ese.	.....	.....	.....	2	.....	misty.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	30.05	763.3	69.3	20.7	90	nw.	.....	.....	1	.....	6	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Liffey S. 29° 56′, W. 71° 20′	29.87	758 7	64	17.8	.....	ene.	.....	.....	2	.....	.....	.....	.....	.....	.....	1	nne.	d clouds.
H. M. S Rocket, S. 41° 20′, W. 74° 00′	30.03	762.7	58	14.4	88	wsw.	.....	.....	4	.....	6	wsw.	.....	.....	.....	4	wsw.	d. clouds.
H. M. S. Swiftsure, S. 2° 02′, W. 88° 57′	29.93	760.2	72	22.2	100	ese.	.....	.....	1–2	.....	5	se.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Sylvia, Shoa Bay, Patagonia	30.13	765.3	47.7	8.7	89	wsw.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	d. clouds.
U. S. S. Essex, Callao, Peru	29.88	758.9	67	19.4	89	sse.	.....	.....	1	.....	8	.....	se.	.....	.....	.....	se.	fair.
U. S. S. Iroquois, S. 14° 53′, W. 84° 06′	29.94	760.5	72	22.2	85	se.	.....	.....	5	.....	8	.....	se.	.....	.....	long	s.	fair.
U. S. S. Onward, Callao, Peru*†	30.03	762.7	65	18.3	94	sse.	.....	.....	2	.....	10	.....	n.	.....	.....	.....	.....	cloudy.
U. S. S. Pensacola, Callao, Peru*	29.80	756.9	68	20.0	90	sse.	.....	.....	1	.....	10	.....	sse.	0	0	.....	.....	cloudy.
Bk. Gronsvaer, Auckland, N. Z†	30.03	762.8	72.8	22.7	.....	ne.	.....	.....	4	.....	5	.....	nw.	1 h'r	1 h'r	.....	.....	fair.
S. S. Australia, S. 20° 48′, W. 173° 46′ *	29.60	751.8	77	25.0	86	e.	.....	.....	2	.....	5	.....	ese.	1 h'r	1 h'r	mod.	e.	fair.
S. S. City of Sydney, Sydney, N. S. W †	30.00	762.0	71	21.7	80	se.	.....	.....	3	.....	10	.....	se.	½ h'r	½ h'r	.....	.....	rainy.
S. S. Zealandia, S. 26° 22′, W. 176° 00′	30.18	766.6	70	21.1	95	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	fine.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.88	758.9	60	15.6	82	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	misty.
Bk. Warden Law, Pisagua, Peru *	30.11	764.8	.....	.....	.....	calm	.....	.....	0	.....	2	.....	s.	0	0	sm'h	s.	fair.
S. Sovereign of the Seas, S. 35° 10′, W. 124° 57′ *†	30.10	764.5	68	20.0	100	nnw.	.....	.....	5	.....	6	.....	wnw.	0	0	h'vy	wsw.	hazy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, N. 5° 15′, E. 74° 30′	29.81	757.2	83	28.3	.....	calm	.....	.....	0	.....	6	n.	.....	.....	.....	1	n.	d. clouds.
H. M. M. Eclipse, N. 18° 54′ E. 72° 49′	29.74	755.4	74	23.3	.....	wnw.	.....	.....	2–3	.....	3	nnw.	.....	.....	.....	.....	.....	d. couds.
H. M. S. Euryalus, Trincomalee, Ceylon, India.	29.76	755.9	80	26.7	86	calm	.....	.....	0	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Himalaya, N. 11° 05′, E. 63° 10′	29.80	756.9	81	27.2	78	ene	.....	.....	3–4	.....	2	.....	.....	.....	.....	2	ne.	d. clouds.
H. M. S. Woodlark, Bushire, Persia	30.06	763.5	58.5	14.7	76	nw.	.....	.....	5–6	.....	6	nw.	.....	.....	.....	5	nw.	squally.
S. S. Scotia, N. 8° 04′, E. 71° 38′	29.79	756.7	80.4	26.9	70	n.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Essex, S. 22° 35′, E 36° 30′ *†	29.85	758.2	86	30.0	.....	sse.	.....	.....	2	.....	2	.....	se.	0	0	long	sse.	fine.

International Chart I. February 1, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.

W.B.Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FERBUARY 2, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algérian.																			
Nemours	.....	.....	30.12	765.0	61.5	16.4	83	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.01	762.3	59.7	15.4	53	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	Thève.
La Calle	.....	.....	29.92	760.0	62.2	16.8	53	wsw.	.....	.....	3	.....	2	.....	.....	0.157	4.0	fair	Fonfréde.
Tunis	.....	.....	29.93	760.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.12	765.1	63.3	17.4	59	sw.	.....	.....	3	.....	0	.....	.....	0	0	clear	Pérès.
Tebessa	.....	.....	30.06	763.4	50.5	13.6	48	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dognon.
Geriville	.....	.....	.....	.....	63.0	17.2	20	s.	.....	.....	5	.....	0	.....	.....	0	0	clear	Forfert.
Laghouat	.....	.....	30.13	765.3	57.2	14.0	26	s.	.....	.....	1	.....	2	.....	.....	0	0	fair	Abraham.
Biskra	.....	.....	30.08	764.0	64.8	18.2	35	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.00	762.0	30.09	764.3	61.1	16.2	81	sse.	7	3.1	.....	.....	1	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.44	747.7	30.00	762.0	45.5	7.5	73	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	29.17	740.9	29.96	761.0	37.4	3.0	87	ne.	1.8	0.8	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.06	738.1	29.97	761.1	39.2	4.0	69	calm	.....	.....	0	1 c	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.69	728.8	29.99	761.7	37.0	2.8	90	nw.	.....	.....	1	.....	10	.....	.....	0.004	0.1	.....	Andreas Rospini.
Hermannstadt	28.53	724.6	29.99	761.7	41.5	5.3	77	sse.	.....	.....	2	.....	5	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.48	723.3	29.86	758.5	36.3	2.4	89	calm	.....	.....	0	.....	3	.....	.....	0	0	clear	The Staff.
Lemberg	29.00	736.6	30.02	762.6	35.6	2.0	80	se.	.....	.....	2	.....	10	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.54	674.0	29.91	759.6	40.9	8.3	49	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	29.87	758.7	29.98	761.6	50.4	10.2	85	w.	.....	.....	1	.....	1	.....	.....	0.610	15.5	.....	I. R. Hydrographic Office.
Szathmar	29.51	749.5	29.98	761.4	42.6	5.9	63	e	.....	.....	1	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.71	754.7	30.00	762.0	45.1	7.3	70	s.	.....	.....	2	.....	3	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.88	759.0	29.98	761.5	48.6	9.2	81	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Royal Academy.
Vienna	29.20	741 7	29.94	760.4	40.3	4.6	74	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.00	736.6	29.10	739.1	40.0	4.4	92	e.	34	15.2	.....	.....	10	.....	.....	0.300	7.6	raining	W. Boswell
Armagh, Observatory	28.72	729.5	28.95	735.3	35.6	2.0	95	nnw.	7	3.1	.....	.....	10	.....	.....	.....	.....	overcast	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.83	757.7	40.5	8.1	95	ese.	10	4.5	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	28.32	719.3	28.84	732.5	44.8	7.1	90	se.	6	2.7	.....	.....	10	.....	.....	.....	.....	raining	Thomas Mackereth.
Bradford, Yorkshire	28.40	721.3	28.88	733.5	42.9	6.1	94	se.	.....	.....	1	.....	10	.....	.....	0.02	0.5	raining	McLandsborough&Preston
Bridgetown, Barbadoes	30.00	762 0	30.03	762.7	81.0	27.2	66	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington	.....	.....	.....	.....	48.0	8.9	89	s.	.....	.....	2.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	28.86	733.0	28.99	736.3	40.1	7.8	92	s.	.....	.....	6	.....	10	.....	.....	blank	blank	misty	Corpl. G. A. Pickles.
Falmouth, Observatory	28.69	728.7	28.92	734.6	43.1	6.2	91	wnw.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	The Staff.
Fort Napier, Natal	27.55	699 8	29.78	756.4	82.6	28.1	53	e.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky	Corpl. F. Milner, A. H. C.
Freetown	29.57	751.1	29.80	756.9	88.0	31.1	91	n.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	29.07	738.4	29.11	739.4	38	3.3	90	nw.	.....	.....	4	.....	7	.....	.....	0.31	7.9	snowing	Wm. Ryan.
Gibraltar, Mediterranean	30.00	762.0	30.05	763.3	62.5	16.9	96	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	d. clouds	Sgt. F. Norris, A. H. C.
Glasgow, Observatory	28 73	729.7	28 94	735.1	37.0	2.8	90	e.	.....	.....	3	.....	10	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	28.80	731.5	28.96	735.6	47.9	8.8	81	ssw.	.....	.....	6	.....	10	.....	.....	0.40	10.2	drizzling	The Staff.
Guernsey	28.73	729.7	29.03	737.3	45	7.2	84	wsw.	.....	.....	9	.....	10	.....	.....	.....	.....	squally	A. Collenette, F. M. S
Kew, Observatory	28.92	734.6	28.96	735.6	47.3	8.5	91	s	34	15.2	.....	.....	10	.....	.....	.....	.....	raining	The Staff.
Leicester, Museum	28.02	726 9	28.87	733.3	46.2	7.9	96	se.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	J. C. Smith.
Malta, Mediterranean	30.02	762.5	30.09	764.3	61.0	16.1	94	nw.	.....	.....	2	.....	2	.....	.....	0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.22	767 6	30.27	768.8	73.2	22.9	85	ne.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.31	719.1	28.82	732.0	40.0	7.8	100	sse.	.....	.....	3	.....	10	.....	.....	.....	.....	threatening	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	28.64	727.4	28.86	733.0	47.7	8.7	92	s.	.....	.....	6	.....	9	.....	.....	.....	.....	drizzling	The Staff.
Plymouth	29.74	755.4	29.81	757.2	48.0	9.2	97	w.	.....	.....	1	.....	10	.....	.....	.....	.....	drizzling	John Merrifield.
Sandwick Manse, Orkneys	29.18	741.2	29.28	743.7	37	2.8	98	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	raining	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.94	760.5	30.00	762.0	49.0	9.8	40	se.	.....	.....	1	.....	10	.....	.....	.....	.....	gloomy	W. H. Lyne.
Sheffield	28.57	725.7	28.87	733.3	45.0	7.2	100	se.	.....	.....	1	.....	10	.....	.....	0.02	0.5	overcast	W. F. Cooper.
Silloth Rectory	28.84	732.5	28.87	733.3	38.1	3.4	96	e.	.....	.....	0	.....	10	.....	.....	0.070	1.8	threatening	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.87	758.7	42.8	6.0	91	c.	2	0.9	.....	.....	10	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Stratfield Turgiss	28.71	729.2	28.92	734.6	47.6	8.7	93	se.	.....	.....	3–4	.....	10	.....	.....	.....	.....	raining	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	29.14	740.1	29.18	741.2	50	10.0	93	w.	.....	.....	7	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.28	743.7	29.31	744.5	43.4	6.3	53	nw.	28	12.5	.....	.....	8	.....	.....	blank	blank	squally	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.04	752.8	30.03	762.7	57.2	14.0	67	wnw.	15.5	6.9	.....	0	1 n	.....	wnw.	0.118	3.0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	.....	.....	.....	.....	— 2	—18.9	.....	nw.	2	0.9	.....	1 c	0	.....	.....	0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.21	767.3	30.20	768.6	— 3	—19.1	68	w.	23	10.3	.....	0	0	.....	.....	0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.28	769.1	30.35	770.9	— 5	—20.6	100	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Cornwall	30.44	773.2	30.66	778.7	— 2.5	—19.2	100	sw.	.....	.....	1	.....	10 8	.....	.....	0	0	overcast	Jas. Smith, M. A.
Dalhousie	30.23	767.8	30.28	769.1	— 5.0	—20.6	.....	w.	.....	.....	5	0	0	.....	.....	0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.43	772.9	30.45	773.4	— 5	—20.6	79	nw.	35	15.6	.....	.....	10 8	.....	nw.	0.01	0.3	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.85	758.2	30.90	784.8	— 40	—40.0	100	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton	30.39	771.9	30.47	773.9	0.1	—17.7	73	nw.	10	4.5	.....	.....	.....	.....	.....	0	0	fair	Prof. Harrison, L. L. D.
Granton	29.47	748.5	30.72	780.3	4.7	—15.2	95	calm	0	0	.....	.....	10 n	.....	.....	0	0	overcast	Jas. Grant.
Halifax, N. S*	30.19	766.8	30.34	770.0	13	—10.6	73	nw.	10	7.2	.....	2 k	0	nw.	.....	0	0	fair	A. Allison.
Hamilton	30.26	768.0	30.69	779.5	12.2	—11.0	59	sw.	.....	.....	2	10 cs	0	sw.	.....	0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	30.31	769.9	30.69	779.5	8	—13.3	76	se.	1	0.4	.....	.....	10 8	.....	w.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	30.44	773.2	30.68	779.3	— 3	—19.4	75	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	C. H. McLeod, C. E.
Ottawa	30.38	771.6	30.66	778.7	— 0.5	—21.4	96	w.	.....	.....	1	.....	10 8	.....	.....	0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.87	758.7	30.66	778.7	2	—16.7	72	se.	2	0.9	.....	.....	10 n	.....	se.	0	0	cloudy	Rev. R. Mosley.
Peterboro	29.86	758.4	30.71	780.0	2.4	—16.4	100	ne.	.....	.....	1	0	9 k	.....	.....	0	0	fine	J. Dixon, B. A.
Port Dover, Ontario	29.94	760.5	30.72	780.3	9	—12.8	78	calm	0	0	.....	.....	10 n	.....	.....	inap.	inap.	cloudy	H. Morgan.
Port Stanley, Ontario	29.99	761.7	30.71	780.0	9	—12.8	80	w.	1	0.4	.....	.....	10 n	.....	nw.	inap.	inap.	cloudy	M. Payne.
Quebec, Quebec*	30.24	768.1	30.61	777.5	—11	—23.9	76	w.	.....	.....	5	2 c	0	w.	.....	0.30	7.6	clear	Capt. Ashe, R. N
Rockliffe, Ontario*	30.13	765.3	30.68	779.3	—20	—28.9	68	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.83	757.7	30.63	778.0	11	—11.7	96	sw.	9	4.0	.....	.....	10 8	.....	.....	0.04	1.0	cloudy	
St. Andrews, N. B	30.40	772.1	30.40	773.7	4	—15.6	86	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	
St. John, N. B	30.26	768.6	30.45	773.4	4.0	—15.6	109	nw.	12	5.4	.....	0	0	.....	.....	0	0	blue sky	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.84	757.9	19.4	— 7.0	.....	nw.	.....	.....	7	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	29.26	743.2	30.70	779.8	4.7	—15.2	95	sw.	4	1.8	.....	.....	10 8	.....	.....	0.05	1.3	overcast	C. J. Macgregor, M. A.
Sydney, C. B*	30.03	762.7	30.10	764.5	9	—12.8	90	nw.	30	13.4	.....	.....	10 n	.....	.....	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	30.28	769.1	30.71	780.0	9	—12.8	91	sw.	6	2.7	.....	8 cs	0	w.	.....	0	0	fair	Magnetic Observatory.
Windsor	30.04	763.0	30.14	765.5	10.0	—12.2	79	w.	16	7.2	.....	0	3 ks	.....	.....	0	0	fair	Prof. W. H. Butler, M. A
Woodstock	29.49	749.0	30.69	779.5	7.3	—13.7	64	sw.	3	1.3	.....	.....	10 8	.....	.....	0	0	overcast	Prof. Wolverton, M. A.
Yarmouth, N. S*	30.39	771.9	30.46	773.7	10	— 8.9	64	nw.	23	10.3	.....	c	5 k	.....	nw.	0.01	0.3	fair	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	29.86	758.4	29.89	759.2	68.5	20.3	91	w.	7.1	3.2	.....	.....	10 8	.....	.....	0	0	foggy	**John Duthie.**
Springbok Fontein	27.86	707.6	.....	.....	84	28.9	64	w.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**J. T. Eustace.**
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.65	626.1	.....	.....	14.9	— 9.5	.....	nw.	.....	.....	1	.....	0	.....	.....	.....	.....	clear.....	
Tchang-kia-tchouang	30.12	765.0	30.23	767.8	12.6	—10.8	66	sw.	.....	.....	2	.....	0	.....	.....	0	0	clear.....	R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	30.38	771.6	30.40	772.2	29.5	— 1.4	76	wnw.	3.8	1.7	.....	.....	1	.....	.....	0	0	clear.....	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.71	754.5	29.75	755 7	35.8	2.1	89	sse.	16	7	.....	.....	9	.....	.....	.....	.....	.....	**Overseergent Fischer.**
Fanoe	29.55	750.5	29.57	751.0	36.0	2.2	91	se.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	28.84	732.0	28.89	733.7	23.5	— 4.7	.....	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	**S. Kleinschmidt.**
Ivigtut, Greenland	28.89	733.7	28.91	734.2	31.1	— 0.5	.....	se.	.....	.....	6-7	.....	10	.....	.....	.....	.....	snowing.....	
Jacobshavn, Greenland	28.85	732.9	28.90	734.1	24.1	— 4.4	.....	se.	.....	.....	4	.....	7	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.91	759.7	29.95	760.8	19.0	— 7.2	87	ne.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.52	749.9	29.56	750.8	39.4	4.1	84	se.	13	6	.....	.....	7	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	29.51	749.5	29.60	751.8	34.7	1.5	96	ese.	.....	.....	4	.....	10	.....	.....	.....	.....	foggy.....	Loerer Oesterbol.
Upernavik, Greenland	29.04	737.7	29.09	738.9	— 8.0	—22.2	.....	ne.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing.....	
French.																			
Agen, Normal School	29.23	742.5	29.89	759.2	53.2	11.8	78	s.	.....	.....	1	c;ck	0	nw.	.....	0	0	.....	M. Labroue, Director.
Alençon, Normal School	28 84	732.6	29.39	746.6	48.6	9.2	92	ssw.	.....	.....	4	.....	n	ne.	ne.	0.12	3.	.....	M. Nicot, Director.
Arras, Engineer School	29.21	741.8	29.47	748.4	45.0	7.2	76	s.	.....	.....	4	.....	k	.....	.....	0	0	.....	M. Fénéon, Command't.
Avignon, Normal School	29.84	758.0	29.92	760.0	52.9	11.6	65	e.	.....	.....	1	.....	2	e.	.....	0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.10	739.1	29.66	753.3	50.9	10.5	56	sw.	.....	.....	3	.....	5	kn	.....	w.	0.016	0.4	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.10	739.1	29.36	745.8	51.4	10.8	61	sw.	.....	.....	4	.....	5	.....	.....	sw.	0	0	cloudy	M. Frère Eugène Marié
Besançon, Normal School	28.90	734.1	29.77	756.1	48.2	9	61	sw.	.....	.....	1	.....	n	.....	.....	w.	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	29.54	750.3	29.80	756.9	54.3	12.4	65	w.	.....	.....	2	.....	8	.....	.....	w.	0.064	0.1	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.05	737.9	29.60	751.8	53.6	12	76	sw.	.....	.....	4	.....	k	.....	.....	sw.	0.031	0.8	.....	M. Mulet, Director.
Brest, Naval Observatory	29.10	739 2	29.35	745.4	45.7	7.6	83	w.	.....	.....	6	.....	9	.....	.....	w.	2.028	51.5	hailing.....	M. de Kermaïde, Dir.
Caen, Normal School	29.40	746.8	29.44	747.7	50.4	10.2	73	n.	.....	.....	3	.....	5	.....	.....	ne.	0.067	1.7	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch	29.23	742.5	29.56	750.7	51.8	11.0	60	s.	.....	.....	8	.....	2	.....	.....	w.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.00	736.7	29.52	749 9	47.1	8.4	59	s.	.....	.....	4	.....	10	.....	.....	.....	0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.41	721.7	29.75	755.7	55.8	13.2	43	s.	.....	.....	2	.....	5	.....	.....	sw.	0	0	½ covered...	M. Alluard, Director.
Cluny, Normal School	28.91	734.4	29.78	750.4	55.4	13	38	sw.	.....	.....	3	.....	5	.....	.....	sw.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	28.81	731 7	29.68	753.8	43.7	6.5	78	sw.	.....	.....	3	.....	5	n	sw.	sw.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.48	698.1	30.08	764.0	43.9	6.6	65	calm	.....	.....	0	.....	0	.....	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, du Rhone	28.91	734.3	30.05	763.3	50.2	10.1	72	se.	.....	.....	2	.....	10	.....	.....	s.	0	0	covered	M. Kint, Director.
Grenoble, Normal School	29.10	739 2	29.89	759.3	42.1	5.6	78	nw.	.....	.....	1	ck	0	sw.	.....	.....	0	0	.....	M. Ablard, Director.
Guéret	28.07	712.9	29.63	752.7	46.8	8.2	61	sw.	.....	.....	3	.....	5	.....	.....	e.	0.169	4.3	raining	**M. Delorme, Dir.**
Lamballe, Normal School	29.11	739.4	29.38	746.2	46.4	8	69	sw.	.....	.....	4	.....	5	.....	.....	sw.	0.122	3.1	cloudy.....	M. Olivrault, Director.
Lescar, Normal School	29.24	742.7	29.82	757.4	44.2	6.8	28	wsw.	.....	.....	1	o	2	k	.....	.....	0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.31	744.4	29.41	747.0	49.6	9.8	66	wsw.	.....	.....	6	.....	2	w.	wsw.	0.079	2.0	¼ covered...	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.78	731.0	29.84	757.9	51.1	10.6	47	sse.	.....	.....	3	5	ck	0	sw.	.....	0	0	½ covered...	M. André, Director.
Mans, Normal School	29.15	740.4	29.46	748.2	51.3	10.7	71	w.	.....	.....	8	.....	8	.....	.....	w.	0.051	1.3	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.65	753.0	29.92	759 9	53.8	12.1	64	ese.	.....	.....	2.3	.....	10	.....	.....	s.	inap.	inap.	.....	M. Stephan, Director.
Montlouis	24.66	626.4	29.50	749.4	42.4	5.8	64	s.	20.6	9.2	.....	.....	3	sw.	.....	.....	0	0	.....	**M. Caré for Dr. Fines.**
Montpellier, Normal School	29.74	755.5	29.87	758.8	49.3	9.6	80	n.	.....	.....	2	.....	5	nw.	se.	.....	0	0	cloudy.....	M. Galzin, Director.
Nancy, Normal School	28.80	731.6	29.60	751.7	42.1	5.6	75	s.	.....	.....	1	.....	ckn	.....	.....	.....	0	0	.....	M. Husse, Director.
Nantes, Observatory	29.38	746.2	29.54	750.3	50.7	10.4	72	wsw.	.....	.....	2-3	o	7	kn;n	.....	wsw.	0.150	3.8	.....	M. Larocque, Director.
Perpignan, Observatory	29.81	757.2	29.93	760.1	51.1	10.6	82	calm	0	0	.....	.....	9	.....	nne.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.02	533.8	.....	.....	25.2	— 3.8	.....	sw.	.....	.....	2	.....	2	.....	sw.	0	0	slightly cl'dy	**M. Vaussenat, Director.**
Privas, Normal School	28.85	732.7	29.92	760 0	49.3	9.6	64	s.	.....	.....	1	1	1	nw.	nw.	0	0	clear.....	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.80	630.0	.....	.....	31.8	— 0.1	100	wsw.	.....	.....	6	.....	5	.....	wsw.	0.189	4.8	foggy.....	M. Alluard, Director.
Rochefort, Naval Obs'y	29.68	753.9	29.71	754.7	53.2	11.8	100	sw.	.....	.....	6	.....	8	.....	sw.	0.08	2.	¾ covered...	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.37	745.9	29.59	751.5	50.0	10	74	w.	.....	.....	4	.....	5	.....	sw.	0.094	2.4	cloudy.....	M. Brotier, Director.
Rodez, Normal School	27.71	703.8	29.88	758.9	45.5	7.5	89	se.	.....	.....	2	.....	0	.....	.....	0	0	clear.....	M. Seger, Director.
Rouen, Normal School	29.37	746.1	29.42	747.3	51.8	11	63	sw.	.....	.....	3	.....	5	sw.	.....	0	0	cloudy	M. Moullot.
Saint Lô	.....	.....	.....	.....	47.8	8.8	69	sw.	.....	.....	2	.....	2	.....	w.	.....	.....	raining..	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.29	744.0	29.46	748.2	52.7	11.5	59	ssw.	.....	.....	6	.....	2	.....	sw.	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.20	741.6	29.92	759.9	54.1	12.3	69	sse.	.....	.....	3	.....	1	s.	.....	0	0	clear.....	M. Baillaud, Director.
Tours	29.38	746.3	29.56	750.8	50.0	10.0	79	ssw.	.....	.....	6	.....	5	sw.	sw.	0.004	0.1	cloudy	M. de Tastes.
Versailles, Observatory	28.95	735.2	29.44	747.8	50.7	10.4	62	sw.	.....	.....	7	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.72	754.8	29.87	758.6	56.7	13.7	50	w.	21.7	9.7	.....	o	7	k	.....	w.	0	0	.....	**M. Cartier, Director.**
German.																			
Ansbach	28.34	719.7	29.82	757.3	41.0	5.0	75	sw.	.....	.....	2	.....	3	.....	sw.	.....	0	0	.....	**Prof. Jnedt.**
Bamberg	28.97	735.8	29.81	757.1	42.8	6.0	70	se.	.....	.....	2	o	3	ks	.....	.....	0	0	.....	**Prof. Dr. Hoh.**
Berlin	29.08	753.8	29.82	757.5	40.6	4.8	78	se.	.....	.....	2	.....	10	.....	.....	.....	0	0	.....	**Meteorological Institute.**
Breslau	29.36	745.8	29.89	759.2	43.0	6.1	69	sse.	.....	.....	3	.....	0	.....	.....	.....	0	0	.....	Royal University Obs'y
Carlsruhe	29.32	744.7	29.78	756.4	45.5	7.5	71	s.	.....	.....	1	.....	9	sw.	.....	0.020	0.5	.....	Albert Senz.
Cassel	28.95	735.2	29.66	753.3	43.7	6.5	69	s.	.....	.....	2	.....	6	s.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.35	745.5	29.72	754.8	48.2	9.0	57	ssw.	.....	.....	1	.....	8	.....	.....	0	0	.....	**Physical Society.**
Friedrichshafen	28.43	722.1	29.91	759.8	34.9	1.6	93	w.	.....	.....	1	.....	10	.....	.....	0	0	dense fog....	Wilhelm, Chief Tel.
Hamburg	29.58	751.3	29.67	753.6	38.5	3.6	83	ese.	.....	.....	4	.....	10	.....	.....	0	0	hazy.....	E. Preller.
Kiel	29.64	752.8	29.65	753.2	38.3	3.5	85	se.	.....	.....	2	.....	10	.....	.....	0.016	0.4	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.36	745.8	29.79	756.7	39.6	4.2	80	se.	.....	.....	2	.....	9	.....	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	29.55	750.6	29.74	755.5	38.3	3.5	85	ese.	.....	.....	2	.....	10	se.	.....	0	0	foggy.....	**Dr. Assmann.**
Memel	29.97	761 3	30.02	762.5	35.4	1.9	86	se.	.....	.....	3	o	5	8	.....	.....	.....	.....	Issermann.
Munich	27.98	710.7	29.83	757.7	44.6	7.0	63	nw.	.....	.....	1	.....	2	.....	.....	0	0	.....	**Central Station.**
Neufahrwasser	29.92	760.0	29.94	760.4	37.9	3.3	88	s.	.....	.....	2	.....	8	.....	.....	0	0	.....	**A. Lothes.**
Neustadt, Palatinate	29.19	741.5	29.72	754.8	44.2	6.8	85	s.	.....	.....	3	.....	10	s.	.....	0	0	.....	Dickuether.
Stuttgart	28.81	731.8	29.71	754.7	46.4	8.0	59	s.	.....	.....	2	.....	4	w.	.....	0	0	.....	**Prof. Dr. Schoder.**
Wustrow	29.75	755.7	29.78	756.3	37.2	2.9	79	se.	.....	.....	2	.....	10 8	.....	.....	0	0	.....	Profs. Brandes & **Reimer.**
Greek.																			
Athens	29.49	749.0	29.87	758.8	59.2	15.1	.....	s.	.....	.....	1.0	.....	5	.....	.....	0.059	1.5	misty.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.95	760.7	30.00	762.0	72.9	22.7	39	sse.	12.0	5.4	.....	.....	3	.....	.....	0	0	d. clouds.....	
Deesa	29.47	748.4	29.95	760.7	73.7	23.2	12	nnw.	13.0	5.8	.....	.....	0	.....	.....	0	0	blue sky.....	
Bombay	29.82	757.5	29.86	758.4	78.1	25.6	60	nnw.	18.0	8.0	.....	.....	0	.....	.....	0	0	blue sky.....	
Poona, Yarrowda	27.99	710.8	29.82	757.5	83.8	28.8	17	nne.	3.0	1.3	.....	.....	0	.....	.....	0	0	blue sky.....	
Belgaum	27.28	692.9	29.80	756.9	79.0	26.1	26	ne.	2.0	0.9	.....	.....	5	so.	.....	0	0	d. clouds....	
Lahore	29.29	743.9	30.07	763.9	56.6	13.7	52	calm	0	0	.....	.....	0	.....	.....	9	0	blue sky.....	
Roorkee	29.08	738.7	30.03	762.7	58.2	14.6	58	w.	.....	.....	.....	.....	0	.....	.....	0	0	.....	
Agra	29.47	748.6	30.07	763.7	59.3	15.2	44	nw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky.....	
Nagpur	28.87	733.4	29.93	760.2	75.0	23.9	29	ne.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky.....	
Jubbulpore	28.62	726.9	30.02	762.6	64.1	17.8	34	n.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky.....	
Lucknow	29.67	753.6	30.07	763.7	56.3	13.5	54	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky.....	
Allahabad	29.72	754.8	30.05	763.2	57.5	14.2	55	nw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky.....	
Patna	29.82	757.4	30.02	762.4	59.6	15.3	47	w.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky.....	
Hazaribagh	27.93	709.5	30.04	763.1	54.7	12.6	50	n.	8.1	3.6	.....	.....	0	.....	.....	0	0	blue sky.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.89	759.2	29.98	761.4	70.8	21.6	57	nne.	2.0	0.9	.....	.....	9	.....	se.	0	0	d. clouds	
Calcutta, Alipore	29.97	761.2	29.99	761.7	66.3	19.1	52	n.	3.0	1.3	.....	.....	0	.....	.....	0	0	blue sky.....	
Dhubri	29.85	758.1	29.97	761.3	62.6	17.0	60	calm	0.3	0.1	.....	.....	0	.....	.....	0	0	blue sky.....	
Chittagong	29.89	759.2	29.98	761.6	70.9	21.6	61	w.	2.9	1.3	.....	.....	0	.....	.....	0	0	blue sky.....	
Sibsagar	29.67	753.6	30.02	762.6	57.6	14.2	83	ne.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky.....	
Zanzibar	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Jeypore	28.54	725.0	30.05	763.2	61.7	16.5	28	nnw.	2.3	1.0	.....	.....	0	.....	.....	0	0	blue sky.....	
Bellary	28.32	719.3	.....	.....	87.0	30.6	35	se.	4	1.8	.....	.....	0	.....	.....	0	0	blue sky.....	
Trichinopoly	29.56	750.8	.....	.....	83.4	28.6	50	ene.	2	0.9	.....	.....	5	.....	.....	0	0	d. clouds.....	
ITALIAN.																			
Udine	29.58	751.4	30.00	762.1	50.9	10.5	73	calm	0	0	.....	.....	2	.....	.....	0.323	8.2	.....	Prof. Giovanni Clodig.
Milan	29.51	749.6	30.05	763.2	45.3	7.4	83	sw.	4.3	1.9	.....	.....	7	.....	wnw.	0.039	1.0	.....	Prof. Schiapparelli.
Padua	29.88	759.0	30.00	761.9	49.5	9.7	82	w.	1.8	0.8	.....	.....	10	.....	w.	0.004	0.1	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.11	739.4	30.00	763.4	39.0	3.9	76	ne.	1.3	0.6	.....	.....	0	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.82	757.4	30.02	762.4	53.2	11.8	68	se.	7.4	3.3	.....	.....	4	.....	sw.	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.08	713.2	30.07	763.7	39.9	4.4	59	w.	.....	.....	2	.....	0	.....	.....	0.079	2.0	.....	Prof. D. C. Bruno.
Pesaro	30.02	762.5	30.07	763.8	49.3	9.6	92	n.	2.5	1.1	.....	.....	3	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.76	756.3	30.04	762.9	52.2	11.2	69	e.	.....	.....	2	.....	10	.....	wsw.	0.063	1.6	.....	Prof. Costantino Pittei.
Leghorn	29.90	759.4	29.98	761.6	49.8	9.9	89	ne.	0.7	0.3	.....	.....	10	.....	w.	0	0	.....	Prof. P. Monte.
Rome	29.85	758.2	30.03	762.7	54.0	12.2	97	nw.	0	0	.....	.....	1	.....	.....	0.362	9.2	.....	Prof. P. Tachini.
Lecce	29.72	754.8	29.98	761.4	53.4	11.9	83	nnw.	18.6	8.3	.....	.....	3	.....	nw.	0.189	4.8	.....	Prof. C. de Giorgi.
Cosenza	29.08	738.7	29.99	761.7	56.6	13.8	78	wsw.	2.5	1.1	.....	.....	4	.....	sw.	0	0	.....	Prof. D. Conti.
Cagliari	29.80	758.5	30.06	763.5	57.7	14.3	56	calm	.....	.....	0	.....	2	.....	.....	0.035	0.9	.....	Prof. A. Pacinotti.
Palermo	29.85	758.3	30.11	764.7	59.5	13.6	49	nw.	13.6	6.1	.....	.....	8	.....	nw.	0.319	8.1	.....	Prof. G. Caccianore.
Syracuse	29.93	760.1	29.97	761.2	59.7	15.4	55	wnw.	7.4	3.3	.....	.....	2	.....	w.	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.51	749.5	30.04	763.0	54.3	12.4	75	se.	0	0	.....	.....	2	.....	ese.	0.020	0.5	.....	Prof. F. Brioschi.
Stelvio	22.00	558.9	.....	.....	19.9	— 6.7	86	sw.	.....	.....	6	.....	8	.....	.....	0	0	misty.....	Prof. P. F. Denza.
Valdobbia	22.01	559.1	.....	.....	21.0	— 6.1	67	ne.	.....	.....	2	.....	1	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.97	761.3	30.00	762.1	23.2	— 4.9	68	calm	.....	.....	0	.....	10 ck	.....	.....	0	0	cloudy	H. Hattori.
Awomori	29.97	761.2	30.01	762.2	13.8	—10.1	80	calm	0	0	.....	0	3 s	.....	.....	0.020	0.5	fair.....	K. Ogawa.
Hakodate	30.01	762.2	30.02	762.5	11.0	—11.7	73	n.	1.2	0.5	.....	2	0	.....	.....	0	0	clear.....	
Hamamatsu	29.90	759.4	29.93	760.1	37.7	3.2	76	calm	.....	.....	0	0	0	.....	.....	0	0	clear.....	
Kagoshima	30.13	765.2	30.14	765.5	36.0	2.2	74	n.	.....	.....	2	0	2 cs	.....	.....	0	0	fair.....	G. Miyanohaza.
Kioto	29.81	757.1	29.99	761.8	34.3	1.3	86	w.	2.1	0.9	.....	0	0	.....	.....	0	0	clear.....	M. Tojima.
Kochi	30.00	762.0	30.02	762.5	41.1	5.1	67	wnw	8.1	3.6	.....	2	0	w.	.....	0	0	clear.....	K. Kusunose.
Miasaka	30.09	764.3	30.12	765.0	38.0	3.3	65	w.	.....	.....	2	0	2 s	.....	w.	0	0	fair	K. Masusaki.
Nagasaki, I. M. Obs'y	29.93	760.3	30.15	765.7	36.8	2.7	71	nnw.	2.1	0.9	.....	.....	10 s	.....	.....	0	0	.....	S. Takehayashi.
Niigata	29.80	758.4	29.90	759.4	31.8	— 0.1	91	nne.	6.2	2.8	.....	.....	10 n	.....	.....	0.250	6.3	snowing.....	M. Morita.
Nobiru	29.94	760.6	29.96	761.0	29.4	— 1.4	71	nnw.	8.2	3.7	.....	0	5 s	.....	.....	0.010	0.3	fair.....	H. Midzushima.
Numazu	29.88	759.0	29.92	759.9	36.5	2.5	79	ene.	.....	.....	2	.....	10 ks	.....	.....	0.094	2.4	cloudy.....	R. Kaneda.
Osaka	29.98	761.5	30.00	761.9	35.8	2.1	92	ne.	1.8	0.8	.....	0	1 s	.....	nw.	0.020	0.5	clear.....	H. Omura.
Sakai	30.04	762.9	30.05	763.2	34.5	1.4	75	ssw.	.....	.....	4	.....	10 n	.....	.....	0.484	12.3	light snow..	K. Yamawchi.
Supporo	.....	.....	.....	.....	3.2	—16.0	98	calm	0	0	.....	.....	2	.....	.....	0.170	4.3	clear	
Tokei Obs'y, Yeddo	29.86	758.5	29.94	760.6	30.4	— 0.9	95	nnw.	4.4	2.0	.....	.....	10 s	.....	.....	0.220	5.6	covered	The Staff.
Wakayama	29.94	760.5	30.00	761.9	40.2	4.6	74	nw.	0.5	0.2	.....	0	1 ck	.....	w.	0	0	clear.....	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.65	753.1	29.84	757.9	80.6	27.0	69	ose.	18.5	8.3	.....	0	3 k	.....	ese.	0.07	1.8	fair.....	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	57.5	14.2	100	e.	.....	.....	.....	.....	.....	.....	.....	.....	.....	dense fog....	H. Diaz Pena.
Guanajuato	23.66	601.0	29.88	759.0	53.4	11.9	81	sw.	inap.	inap.	.....	0	0	.....	.....	0	0	foggy	Prof. Vicente Fernandez.
Leon	24.32	617.7	30.13	765.3	48.2	9.0	81	se.	.....	.....	1	0	2 ck	.....	s.	0	0	clear.....	Prof. M. Leal.
Mazatlan	29.72	755.0	29.99	761.8	58.5	14.7	73	ne.	1.6	0.8	.....	3 cs	0	sw.	.....	0	0	clear.....	F. Quijano, C. E.
Mexico, Central Obs'y	23.08	586.2	30.14	765.5	48.2	9.0	78	calm	0	0	.....	0	0	.....	.....	0	0	fine.....	The Staff.
Morelia	24.33	618.0	30.25	768.3	49.1	9.5	69	s.	.....	.....	1	1 c	1 k	e.	e	0	0	clear.....	M. Tena, M. D.
Pabellon	23.94	607.9	30.03	762.7	46.4	8.0	67	calm	0	0	.....	0	0	.....	.....	0	0	fine.....	
Puebla, Catholic Institute	23.43	595.2	30.30	769.5	47.3	8.5	43	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	Prof. P. Spina.
Zacatecas	22.53	572.2	30.22	767.6	50.0	10.0	53	sw.	7.6	3.4	.....	3 cs	0	sw.	.....	0	0	clear.....	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.35	745.6	29.35	745.6	47.1	8.4	.....	s.	.....	.....	6	.....	.....	.....	.....	0	0	.....	
Groningen	29.42	747.3	29.48	748.7	39.0	3.9	.....	s.	.....	.....	4	.....	.....	.....	.....	0.059	1.5	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.547	13.9	.....	
Hellevoetsluis	29.31	744.5	29.31	744.5	45.1	7.3	75	sse.	.....	.....	4	.....	.....	.....	.....	0.016	0.4	.....	
Utrecht	29.30	745.7	29.41	746.9	42.4	5.8	74	sse.	.....	.....	5	.....	8	.....	.....	0.016	0.4	very cloudy..	H. van der Brink
Sub-series.																			
Batavia, Java	29.80	756.9	.....	.....	74.3	23.5	92	wnw.	0.5	0.2	.....	.....	10	.....	.....	0.98	25.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.52	749.8	29.58	751.4	39.2	4.0	42	e.	7	3	.....	.....	10	.....	.....	0	0	.....	
Brono	29.80	756.9	29.84	757.9	32.0	0.0	61	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	
Christiania	29.03	752.7	29.79	756.6	30.4	— 1.1	86	nne.	13	6	.....	.....	10	.....	.....	0.039	1.0	.....	
Gjæsvær	29.60	753.4	29.09	754.0	33.3	0.7	.....	se.	.....	.....	2	.....	10	.....	.....	.....	.....	snowing.....	
Lodingen	29.70	755.8	29.80	757.0	33.8	1.0	65	sw.	.....	.....	2	.....	10	.....	.....	blank	blank	.....	
PORTUGUESE.																			
Angra, Azores	30.20	768.7	30.43	772.8	54.1	12.3	76	nne.	9.4	4.2	.....	.....	4	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.98	736.2	30.00	762.0	52.9	11.6	78	sw.	3.1	1.4	.....	.....	9	.....	.....	0.173	4.4	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.00	763.6	30.15	765.9	63.9	17.7	64	sw.	8.1	3.6	.....	.....	6	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.67	753.7	30.04	762.9	54.1	12.3	69	wsw.	7.4	3.3	.....	.....	10	.....	.....	0.335	8.5	.....	The Staff.
Ponta Delgada, Azores	30.33	770.3	30.40	772.1	54.7	12.6	55	n.	13.5	6.1	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.69	754.2	29.89	759.3	82.4	28.0	88	wsw.	1.3	0.6	.....	.....	8	.....	.....	0	0	.....	
Serra da Estrella	25.13	638.3	30.03	762.7	30.7	— 0.7	100	w.	.....	.....	3	.....	10	.....	.....	0	0	foggy.....	
RUSSIAN.																			
Akmolinski	29.22	742.3	30.47	773.9	— 9.6	—23.1	83	sse.	4	2	.....	1 cs	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	30.16	766.0	30.18	766.5	12.9	—10.6	86	sw.	2	1	.....	0	0	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashurada	30.27	768.9	30.18	766.5	40.8	4.9	86	wsw.	9	4	.....	.....	10 n	.....	.....	0.114	2.9	.....	
Astrakhan	30.01	777.4	30.52	775.3	24.1	— 4.4	52	e.	4	2	.....	.....	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.45	773.5	30.41	772.3	36.3	2.4	84	nne.	13	6	.....	0	8 ks	.....	.....	blank	blank	.....	
Barnaul	29.78	756.5	30.35	770.8	0.8	—17.5	78	sw.	2	1	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Bielosersk	29.95	760.8	30.40	773.0	22.1	— 5.5	90	calm	0	0	.....	.....	10 s	.....	.....	0	0	.....	
Dorpat	30.00	762.1	30.20	768.6	28.8	— 1.8	100	ssw.	11	5	.....	.....	10 n	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.27	743.5	30.32	770.1	12.9	—10.6	80	wsw.	7	3	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Elisawetgrad	29.89	759.3	30.37	771.4	28.9	— 1.7	88	ose.	4	2	.....	.....	10 s	.....	.....	0.008	0.2	.....	
Irkutsk	28.23	717.0	29.98	761.6	15.3	— 9.3	87	e.	.....	.....	2	.....	10	.....	.....	0.028	0.7	.....	
Kasalinsk	29.98	761.6	30.16	766.1	10.4	—12.0	60	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	
Kasan	30.00	763.4	30.34	770.7	20.7	— 6.3	86	sw.	4	2	.....	.....	10	.....	.....	0.039	1.0	light snow..	Observatory.
Kem	30.17	766.3	30.22	767.6	21.6	— 5.8	77	w.	18	8	.....	.....	10 ks	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Kertch	30.26	768.7	30.28	769.2	31.3	— 0.4	92	calm	0	0	.....	0	8 n	.....	.....	0	0	.....	Lagorio & Snatyrez.
Kieff	29.60	751.8	30.27	768.8	31.6	— 0.2	89	se.	16	7	.....	.....	10 ks	n	.....	0	0	.....	Observatory.
Koslov	29.89	759.1	30.46	773.7	20.7	— 6.3	94	ssw.	4	2	.....	.....	10 s	.....	.....	0	0	.....	
Libau	29.96	760.9	29.98	761.5	36.1	2.3	77	se.	13	6	.....	.....	10	.....	.....	0	0	.....	E. Quaas.
Lugan	30.25	768.3	30.45	773.5	10.8	—11.8	78	se.	4	2	.....	.....	1	.....	.....	inap.	inap.	.....	Meteorological Obs'y.
Moscow	29.95	760.6	30.47	773.9	19.9	— 6.7	97	s.	4.5	2.0	.....	.....	10 n	.....	.....	0.236	6.0	.....	Meteorological Obs'y
Nikolaiev	30.26	768.7	30.34	770.6	32.0	0.0	85	e.	9	4	.....	.....	10 n	.....	.....	0	0	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.74	755.3	29.82	757.5	—22.7	—30.4	61	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Iwanow.
Pekin, China	30.07	763.8	30.22	767.6	20.1	— 6.6	37	sw.	4	2	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	30.00	762.1	30.39	771.8	18.7	— 7.4	56	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	30.16	766.0	30.37	771.4	22.1	— 5.5	83	nw.	7	3	.....	3 cs	0	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.62	752.4	30.14	765.5	35.1	1.7	93	se.	13	6	.....	.....	10 s	.....	.....	0	0	.....	
Pott	30.18	766.6	30.20	767.1	52.2	11.2	71	e.	4	2	.....	0	0	.....	.....	0	0	.....	
St. Petersburg	30.37	771.4	30.39	771.8	23.2	— 4.9	95	se.	7	3	.....	.....	10 n	.....	.....	0.303	7.7	.....	Central Physical Obs'y.
Samarkand	27.61	701.2	30.24	768.2	23.5	— 4.7	55	calm	0	0	.....	2 cs	0	.....	.....	inap.	inap.	.....	
Semipalatinsk	29.77	756.2	30.50	774.8	— 2.2	—19.0	76	e.	13	6	.....	.....	0	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	30.00	762.0	30.23	767.9	38.8	3.8	90	nnw.	16	7	.....	.....	9 n	.....	.....	0	0	.....	
Staroi Bykhov	29.83	757.7	30.32	770.0	31.6	— 0.2	94	se.	9	4	.....	.....	10	.....	.....	0	0	.....	
Tashkend	28.50	723.9	30.32	770.0	18.7	— 7.4	50	calm	0	0	.....	0	6 k	.....	.....	0	0	light clouds	Terch, A. M.
Tiflis	28.88	733.5	30.36	771.1	39.9	4.4	66	se.	9	4	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.51	698.8	30.30	769.6	1.6	—16.9	75	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Viatka	29.57	751.0	30.24	768.2	17.2	— 8.2	.....	calm	0	0	.....	.....	10	.....	.....	0.024	0.6	.....	
Vladivostock	29.97	761.2	30.04	762.9	— 2.9	—19.4	60	calm	0	0	.....	.....	0	.....	.....	0	0	.....	
Warsaw	29.58	751.2	30.02	762.4	33.1	0.6	87	s.	13	6	.....	.....	10	.....	.....	0	0	heavy clouds	Astronomical Obs'y.
Wilna	29.74	755.3	30.17	766.4	36.0	2.2	87	se.	2	1	.....	.....	10	.....	.....	0	0	heavy clouds	Berg, Assistant.
Yeniseisk	29.76	756.0	30.08	764.1	5.9	—14.5	84	w.	9	4	.....	.....	10	.....	.....	0.189	4.8	raining	M. O. Marks.
Scottish.																			
Monach Lt	.....	.....	29.24	742.7	40	4.4	91	ne.	.....	.....	7	.....	10	.....	.....	0.2	5.	showery	J. Youngclause.
North Unst	.....	.....	29.52	749.8	.....	.....	.....	se.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.83	757.7	29.94	760.4	56.3	13.5	64	w.	2.2	1.0	.....	1 c	0	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.84	758.0	29.90	759.5	60.8	16.0	48	w.	7.6	3.4	.....	2	3	w.	.....	0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.85	681.9	29.87	758.6	42.8	6.0	73	sw.	20.6	9.2	.....	.....	9	.....	.....	0.059	1.5	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.74	704.5	30.00	762.0	48.7	9.3	78	sw.	15.9	7.1	.....	0	8	.....	.....	0.087	2.2	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.88	758.9	30.01	762.3	61.2	16.2	66	ssw.	2.5	1.1	.....	0	3	.....	.....	0	0	almost clear	Olayo Diaz, Director.
Oviedo	28.92	734.5	29.79	756.7	45.5	7.5	95	e.	8.5	3.8	.....	6 ck	8 k	w.	w.	0.752	19.1	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.95	735.4	29.86	758.5	48.0	8.9	83	w.	5.6	2.5	.....	.....	10	.....	.....	.....	.....	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.87	758.8	29.93	760.3	77.0	25.0	82	n.	4.4	2.0	.....	.....	3 ks	.....	e.	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.7	30.09	764.3	58.8	14.9	78	s.	11.0	4.9	.....	.....	10	.....	sw.	0.004	0.1	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.06	763.4	30.14	765.7	77.4	25.2	78	ne.	18.3	8.2	.....	2 k	4 kn	ne.	ne.	0.118	3.0	cloudy	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	30.08	764.1	30.12	765.1	21.2	— 6.0	100	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Umea	30.04	763.1	30.10	764.4	28.4	— 2.0	96	ssw.	.....	.....	2	.....	10	.....	.....	0.102	2.6	.....	
Hernosand	29.98	761.6	30.04	762.9	27.7	— 2.4	92	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	
Stockholm	29.72	755.0	29.90	759.5	33.4	0.8	89	sse.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Wisby	29.81	757.1	29.87	758.6	35.2	1.8	90	sse.	.....	.....	4	.....	10	.....	.....	0.051	1.3	.....	
Sub-series.																			
Upsala	29.80	757.0	29.89	759.2	30.9	— 0.6	97	ese.	10.1	4.5	.....	.....	10	.....	.....	0.146	3.7	.....	S. G. Fineman.
Swiss.																			
Geneva	28.43	722.0	29.86	758.5	49.1	9.5	55	ssw.	.....	.....	6	.....	4	.....	.....	0	0	cloudy	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.06	763.4	50.5	10.3	48	sse.	11	5.0	.....	.....	10	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	29.98	761.4	55.9	13.3	.....	w.	.....	.....	1	.....	5	.....	.....	0.94	24.	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.17	766.4	63.1	17.3	65	w.	.....	.....	1	c	7 k	.....	w.	0.135	3.4	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred L. Kingsbury.
United States.																			
Albany, New York	30.63	778.0	30.72	780.3	18	— 7.8	67	w.	5	2.2	.....	5 cs	0	w.	.....	0	0	fair	J. O. Barnes.
Alpena, Michigan	29.94	760.5	30.65	778.5	0	—17.8	68	w.	2	0.9	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.72	627.9	29.82	757.4	40	4.4	67	sw.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.05	702.3	30.69	779.5	—32	—35.6	35	sw.	8	3.6	.....	0	0	.....	.....	0.01	0.3	clear	B. O. Lenoir.
Atlanta, Georgia	29.28	743.7	30.50	774.7	41.0	5.0	57	ne.	12	5.4	.....	.....	10 ks	.....	se.	0	0	cloudy	H. C. Smyth.
Atlantic City, New Jersey	30.73	780.5	30.74	780.8	20	— 6.7	56	n.	9	4.0	.....	0	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.36	771.1	30.56	776 2	48	8.9	53	ne.	5	2.2	.....	.....	10 s	.....	sw.	0	0	cloudy	John Healy.
Baltimore, Maryland	30.72	780 3	30.77	781.5	26	— 3.3	64	n.	2	0.9	.....	2 c	0	.....	.....	0	0	clear	Geo W Feiger.
Barnegat, New Jersey	30.72	780.3	30.74	780.8	19.0	— 7.2	84	n.	17	7.6	.....	1 k	0	.....	.....	0	0	clear	G. A. Hill.
Behring Id., Behring Sea	29.86	758.4	29.88	758.9	28.2	— 2.1	.....	w.	20	8.9	.....	.....	10 n	.....	.....	0.14	3.6	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	29.00	736.6	30.74	780.8	—16	—26.7	100	ne.	4	1.8	.....	.....	10 n	.....	.....	0.08	2.0	light snow	A. Pritchard.
Benton, Fort, Montana	27.70	703.6	30.70	779.8	—23	—30.6	36	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Billings, Montana	27.12	688.8	.....	.....	—18	—27.8	.....	e.	12	5.4	.....	.....	10 s	.....	.....	0.15	3.8	cloudy	T. Gibson.
Bismarck, Dakota	28.75	730.2	30.73	780.5	—23	—30.6	100	nw.	10	4.5	.....	.....	10 s	.....	.....	0.10	2.5	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.66	778.7	30.70	779.8	18	— 7.8	67	n.	16	7.2	.....	0	0	.....	.....	0	0	clear	J. T. Elker.
Boise City, Idaho	27.10	688.3	30.06	763.5	2	—16.7	96	nw.	4	1.8	.....	.....	10 s	.....	.....	0.28	7.1	cloudy	B. E. Light.
Boston, Massachusetts	30.49	774.4	30.65	778.5	20.4	— 6.4	63	w.	8	3.6	.....	5 c	0	nw.	.....	0	0	fair	O. B. Cole.
Brownsville, Texas	29.88	758.9	29.93	760.2	68.9	20.5	93	s.	17	7.6	.....	.....	10 s	.....	s.	0	0	cloudy	M. McCarty.
Buffalo, New York	29.89	759.2	30.09	779.5	11	—11.7	83	sw.	5	2.2	.....	.....	10 s	.....	sw.	0.02	0.5	cloudy	W. Finn.
Buford, Fort, Dakota	28.59	726.2	30.77	781.5	—33	—36.1	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. A. Mellen.
Burlington, Vermont	30.38	771.6	30.69	779.5	3.3	—15.9	71	ne.	1	0.4	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	D. N. Farnell.
Cairo, Illinois	29.93	760.2	30.35	770.9	29.0	— 1.7	82	e.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	W. H. Ray.
Cape Henry, Virginia	30.71	780 0	30.73	780.5	34	1.1	71	ne.	20	8.9	.....	0	0	.....	.....	0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.74	780.8	30.78	781.8	24.0	— 4.4	61	ne.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. E. Smith.
Cape Mendocino, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. J. McLean.
Cedar Keys, Florida	30.32	770.1	30.34	770.6	60	15.6	87	ne.	12	5.4	.....	2 cs	0	.....	.....	0.24	6.1	.....	F. W. Mixer.
Champaign, Illinois	29.59	751.6	30.46	773.7	13.0	—10.6	64	ne.	20	8.9	.....	.....	10 s	.....	ne.	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.41	772.4	30.47	773.9	52	11.1	86	ne.	8	3.6	.....	0	8 s	.....	ne.	0.02	0.5	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.74	755.4	30.63	778.0	33.0	0.6	50	ne.	7	3.1	.....	0	fg.	.....	.....	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.64	752.8	30.50	774.7	32.5	0.3	64	e.	2	0.9	.....	1 cs	sk.	s.	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.78	604.0	30.03	762.7	—16.3	—26.8	73	se.	8	3.6	.....	.....	10 s	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.84	757.9	30.59	777.0	9.2	—12.7	68	ne.	7	3.1	.....	.....	10 n	.....	.....	0.05	1.3	cloudy	J. Mitchell.
Chincoteague, Virginia	30.73	780.5	30.75	781.0	27	— 2.8	64	ne.	15	6.7	.....	hz.	0	.....	.....	0.03	0.8	light snow	C. F. Dickens.
Cincinnati, Ohio	29.83	757.7	30.52	775.2	25	— 3.9	88	ne.	7	3.1	.....	.....	10 s	.....	s.	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.88	758.9	30.67	779.0	13.3	—10.4	80	se.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. B. Newlin.
Coleman City, Texas	28.03	711.9	29.91	759.7	62	16.7	90	s.	13	5.8	.....	.....	10 s	.....	s.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.70	754.4	30.60	777.2	19	— 7.2	53	e.	9	4.0	.....	3 c	4 s	w.	.....	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	27.88	708.1	29.90	759.4	61.4	16.3	84	s.	14	6.3	.....	.....	10 s	.....	s.	0	0	fair	J. McGlone.
Davenport, Iowa	29.80	756.9	30.50	774.7	6	—14.4	76	ne.	14	6.3	.....	.....	10 n	.....	.....	0.44	11.2	cloudy	R. R. Martin.
Davis, Fort, Texas	25 02	635.5	29.98	761.5	39	3.9	76	sw.	4	1.8	.....	0	0	.....	.....	0	0	light snow	J. Williams.
																		clear	

STATIONS	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Dayton, Washington T'y	28.46	722.9	30.27	768.8	— 8	—22.2	78	e.	9	4.0		0	0			0.01	0.3	clear	D. Moore.
Deadwood, Dakota	25.43	645.9	30.35	770.9	—17	—27.2	100	sw.	3	1.3			10 n			0.10	2.5	light snow	F. Willson.
Delaware Breakwater, Del.	30.71	780.0	30.73	780.5	24	— 4.4	73	n.	23	10.3		0	5 ks		n.	0	0	fair	T. S. Townsend.
Denison, Texas	29.15	740.4	29.99	761.7	47.0	8.3	86	se.	8	3.6			10 s			0	0	cloudy	J. W. Byram.
Denver, Colorado	24.55	623.6	30.07	763.8	—10.0	—23.3	100	nw.	6	2.7		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.55	750.6	30.52	775.2	— 2	—18.9	65	ne.	10	4.5			10 n		ne.	0.17	4.3	light snow	F. W. Conrad.
Detroit, Michigan	29.91	759.7	30.66	778.7	14.8	— 9.6	83	sw.	2	0.9			10 n			inap.	inap.	light snow	E. R. Brace.
Dodge City, Kansas	27.46	697.5	30.20	767.1	0	—17.8	100	n.	18	8.0			10 n			0.26	6.6	light snow	V. P. Temple.
Dubuque, Iowa	29.83	757.7	30.59	777.0	— 2.8	—19.3	65	ne.	7	3.1			10 s			0.22	5.6	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.96	761.0	30.77	781.5	—22	—30.0	100	w.	16	7.2			10 s		w.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.08	738.6	29.92	760.0	65.0	18.3	84	se.	6	2.7			10 s			inap.	inap.	cloudy	F. Belford.
Eagle Rock, Idaho	25.20	640.1	30.10	764.5	—18	—27.8	100	n.	12	5.4		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.41	772.4	30.48	774.2	4.0	—15.6	72	nw.	15	6.7		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.14	689.3	30.04	763.0	9	—12.8	41	ne.	10	7.2			10 n		ne.	inap.	inap.	light snow	W. J. Cundall.
El Paso, Texas	26.02	660.9	29.90	759.4	50.0	10.0	55	nw.	8	3.6			10 s		nw.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.91	759.7	30.68	779.3	15	— 9.4	83	s.	1	0.4			10 s			0.03	0.8	cloudy	Peter Wood.
Escanaba, Michigan	29.94	760.5	30.66	778.7	— 8.0	—22.2	82	nw.	2	0.9		0	8 s			0	0	cloudy	George Heathcote.
Fredericksburg, Texas	28.15	715.0	29.95	760.7	65	18.3	100	s.	13	5.8			10 ks		s.	0.02	0.5	cloudy	Frank Halwegler.
Galveston, Texas	29.99	761.7	30.04	763.0	62	16.7	100	se.	15	6.7			fg.			0	0	dense fog	E. O'C. Machemay
Grand Haven, Michigan	29.91	759.7	30.62	777.7	10.0	—12.2	80	ne.	1	0.4			10 n			0.03	0.8	light snow	J. E. Mueller.
Grant, Fort, Arizona	24.99	634.7	29.85	758.2	45	7.2	51	e.	7	3.1		0	9 s		nw.	0	0	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.61	777.5	30.63	778.0	42	5.6	82	ne.	26	11.6		hz.	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.97	659.6	30.37	771.4	—19	—28.3	100	calm	0	0		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	28.90	734.0	29.95	760.7	51	10.6	86	se.	13	5.8			10 s			0	0	cloudy	J. P. Sherry.
Huron, Dakota	29.17	740.9	30.09	779.5	—14	—25.6	60	n.	14	6.3			10 s			0.01	0.3	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.62	752.3	30.47	773.9	21	— 6.1	84	e.	8	3.6			10 s			0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.94	760.5	29.98	761.5	62.2	16.8	98	se.	10	4.5		0	8 k		s.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	28.76	730.5	30.00	762.0	47	8.3	77	se.	14	6.3			10 s			0	0	cloudy	D. J. Carr.
Jacksonville, Florida	30.34	770.6	30.40	772.1	57	13.9	93	calm	0	0			10 s			0	0	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.96	710.2	30.04	778.2	—18	—27.8	100	nw.	9	4.0			10 n		nw.	0.02	0.5	light snow	A. Schneider.
Keokuk, Iowa	29.74	755.4	30.44	773.2	5.0	—15.0	63	ne.	12	5.4			10 n		ne.	0.12	3.0	light snow	F. Z. Gosewisch.
Key West, Florida	30.19	766.8	30.21	767.3	73.0	22.8	90	e.	13	5.8		0	1 ks		e.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.66	778.7	30.68	779.3	39	3.9	65	e.	17	7.6		0	0			0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.42	747.3	30.50	774.7	28.8	— 1.8	90	ne.	2	0.9		0	sk.			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.82	757.4	30.66	778.7	— 6	—21.1	62	n.	4	1.8			10 n			inap.	inap.	light snow	S. C. Emery.
Leavenworth, Kansas	29.41	747.0	30.36	771.1	9	—12.8	76	n.	8	3.6			10 s			0.10	2.5	cloudy	A. W. Browne.
Lewiston, Idaho	29.52	749.8	30.39	771.9	5.5	—14.7	76	ne.	12	5.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.87	758.7	30.20	767.1	39	3.9	65	e.	2	0.9			10 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.56	750.8	29.96	761.0	38	3.3	54	nw.	1	0.4		0	0			inap.	inap.	clear	T. S. Collins.
Louisville, Kentucky	29.84	757.9	30.43	772.9	26	— 3.3	64	e.	8	3.6		0	3 s			0	0	clear	L. M Dey.
Lynchburg, Virginia	29.98	761.5	30.70	779.8	30	— 1.1	47	n.	2	0.9		0	0			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.93	760.2	30.63	778.0	— 2.0	—18.9	65	w.	4	1.8			10 s			0	0	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.00	777.2	30.61	777 5	42.0	5.6	82	ne.	10	4.5		0	0			0	0	clear	William Daly.
Madison, Wisconsin	29.51	749.5	30.00	777.2	— 5	—20 0	62	ne.	8	3.6			10 s			0	0	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.72	653.3	30.26	768.6	—25	—31.7	21	n	4	1.8		10 k	0			0	0	cloudy	F. Burke.
McKavett, Fort, Texas	27.62	701.5	30.00	762.0	62	16.7	90	s.	13	5.8			9 ks		s.	0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.84	757.9	30.62	777.7	— 9	—22.8	55	w.	9	4.0		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.90	759.4	30.26	768.6	33	0.6	68	e.	14	6.3			10 s		se.	0	0	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.84	757.9	30.64	778.2	— 3	—19.4	100	nw.	10	4.5			10 n			0.01	0.3	light snow	W. Line.
Missoula, Fort, Montana	26.96	684.8	30.39	771.9	—17	—27.2	100	ne.	8	3.6		0	0			0	0	clear	I. H. Young.
Mobile, Alabama	30.23	767.8	30.27	768.8	55.5	13.1	74	ne.	2	0.9		8 ck	0		sw.	0	0	cloudy	C. A. Read.
Montgomery, Alabama	30.12	765.0	30.36	771.1	48.8	9.3	50	e.	8	3.6		0	2 s		sw.	0	0	clear	J. B. McLaughlin
Moorhead, Minnesota	29.66	753.4	30.76	781.3	—31	—35.0	100	n.	4	1.8			10 s			0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.54	750.3	30.61	777.5	10.5	— 6.9	74	ne.	8	3.6		0	0			0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.53	597.7	30.15	765.8	—17.0	—27.2	100	nw.	88	39.4		0	fg.		nw.	0	0	clear	S. W. Beall.
Nashville, Tennessee	29.79	756.7	30.40	772.1	29.0	— 1.7	67	e.	5	2.2		3 cs	0	sw.		0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.58	776.7	30.70	779.8	13	—10.6	80	w.	4	1.8		0	sk.			0	0	clear	J. H. Sherman.
New London, Connecticut	30.69	779.5	30.74	780.8	18	— 7.8	53	w.	7	3.1		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.12	765.0	30.18	766.6	63.0	17.2	93	se	7	3.1			10 s			0	0	threatening	L. Dunne.
Newport, Rhode Island	30.62	777.7	30.67	779.0	18.4	— 7.6	63	w.	9	4.0		2 c	1 s	w.		0	0	clear	W. McGillivray.
New York, New York	30.56	776.2	30.75	781.0	15	— 9.4	83	w.	2	0.9		0	0			0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.68	779.3	30.71	780.0	33	0.6	68	ne.	5	2.2		0	hz.			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.26	692.4	30.36	771.1	— 7.4	—21.9	84	ne.	12	5.4			10 n			0.46	11.7	light snow	E. F. Brady.
Olympia, Washington T'y	30.27	768.8	30.31	769.9	21.0	— 6.1	70	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.24	742.7	30.51	774.9	— 2.4	—19.1	68	ne.	12	5.4			10 s			0.14	3.6	cloudy	A. Pollak.
Ooglaamie, Alaska	30.54	775 7	30.56	776.2	— 9.0	—22.8		sw.	9	4.0		hz.	3 s		sw.	inap.	inap.	clear	P. H. Ray.
Oswego, New York	30.30	769.6	30.65	778.5	20.3	— 6.5	41	sw.	4	1.8			10 s			0.75	19.0	cloudy	J. G. Linsley.
Palestine, Texas	29.47	748.5	30.05	763.3	62.5	16.9	93	se.	1	0.4			10 n		s.	0.01	0.3	light rain	L. M. Pindell.
Pensacola, Florida	30.26	768.6	30.29	769.4	56.3	13.5	80	ne.	9	4.0			10 s		se.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.66	778.7	30.77	781.5	21.5	— 5.8	58	nw.	4	1.8		0	0			0	0	clear	E. M. Mattison.
Pike's Peak, Colorado	17.11	434.6	30.83	783.1	1	—17.2	100	w.			.7	0	2 s		w.	0	0	clear	H. Hall.
Pioche, Nevada	23.53	597.7	29.69	754.1	14.5	— 9.7	74	sw.	4	1.8		0	4 ks			0.08	2.0	fair	C. N. Kitchel.
Pittsburg, Pennsylvania	29.79	756.7	30.65	778.5	17.5	— 8.1	74	ne.	5	2.2			10 s		sw.	0	0	cloudy	W. A. Reid.
Poplar River, Montana	28.46	722.9	30.81	782.6				nw.			1	0	0			0	0	clear	W. O. Maxwell.
Port Eads, Louisiana	30.17	766.3	30.18	766.6	63.0	17.2	93	se.	11	4.9			10 s		se.	0	0	cloudy	H. B. Boyer.
Port Huron, Michigan	29.93	760.2	30.66	778.7	7.8	—13.4	87	calm	0	0			10 n			inap.	inap.	light snow	W. O. Bailey.
Portland, Maine	30.52	775.2	30.57	776.5	17.0	— 8.3	67	w.	8	3.6		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.30	769.6	30.37	771.4	19.8	— 6.8	45	e.	16	7.2			0			0.02	0.5	clear	M. L. Hearne.
Portsmouth, N. C.					44	6.7	76	ne.			7	0	hz.			0	0	clear	F. S. Coburn.
Prescott, Arizona	24.34	618.2	29.70	754.4	31.2	— 0.4	92	sw.	30	13.4			1 s		sw.	0	0	clear	Jas Cassidy.
Provincetown, Mass	30.59	777.0	30.62	777.7	18	— 7.8	67	nw.	9	4.0		2 cs	1 s	w.		0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.25	768.3	30.26	768.6	67	19.4	84	e.	10	4.5		1 c	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.00	751.8	29.97	761.2	33	0.6	60	n.	10	4.5		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.98	761.5	30.09	779.5	10	—12.2	80	sw.	9	4.0		5 c	2 k	w.		inap.	inap.	fair	E. W. McGann
Roseburg, Oregon	29.04	752.8	30.21	767.3	22	— 5.6	73	n.	6	2.7		0	3 s		nw.	0.13	3.3	clear	J. J. Nanry.
Sacramento, California	29.86	758.4	29.94	760.5	33.2	0.7	68	nw.	6	2.7		0	0			inap.	inap.	clear	J. A. Barwick.
St. Louis, Missouri	29.74	755.4	30.38	771.6	20.0	— 6.7	100	ne.	11	4.9			10 n		ne.	0.03	0.8	sleeting	J. H. Weber.
St. Michael, Fort, Alaska	30.48	774.2	30.52	775.2	14	—10.0	100	se.	12	5.4		0	0			0	0	clear	A. P. Leavitt.
St. Paul, Minnesota	29.74	755.4	30.68	779 3	— 7.0	—21.7	100	n.	8	3.6			10 s			0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.83	757.7	30.80	782.3	—38	—38.9	100	calm	0	0		0	0			0	0	clear	C. B Dilley.
Salt Lake City, Utah	25.24	641.1	29.80	756.9	8	—13.3	58	ne.	14	6.3			10 s			0.37	9.4	threatening	J. Craig.
San Antonio, Texas	29.21	741.9	29.93	760.2	66.5	19.2	93	se.	8	3.6			10 s		se.	inap.	inap.	cloudy	T. J. Kenan.
San Diego, California	29.88	758.9	29.95	760.7	48.6	9.2	47	nw.	13	5.8		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.91	759.7	30.63	778.0	20	— 6.7	84	e.	10	4.5			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.73	780 5	30.76	781.3	16.0	— 8.9	83	nw.	14	6.3		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.92	760.0	29.98	761.5	39.5	4.2	60	nw	5	2.2		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	22.79	578.9	29.87	758.7	41	5.0	29	s.	29	13.0		7 c	3 k	s.	s.	0	0	cloudy	H. U. Jones.
Savannah, Georgia	30.37	771.4	30.40	772.7	54	12.2	66	ne.	10	4.5		10 ck	0			0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.69	677.9	30.54	775.7	—20	—32.2	100	w.	1	0.4		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.85	758.2	30.10	764.5	54	12.2	80	se.	4	1.8			10 s			0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.70	729.0	30.01	762 2	28.5	— 1.9	65	n.	26	11.6			10 s			0	0	cloudy	W. M. Mattingly.
Silver City, New Mexico	23.99	609.3	29.84	757.9	36.0	2.2	61	nw.	1	0.4		0	7 s			0	0	fair	N. D. Lane.
Sitka, Alaska	30.44	773.2	30.51	774.9	28	— 2.2	82	e.	4	1.8			10 ks		e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.59	751.6	30.09	764.3	38.5	3.6	54	e.	12	5.4			10 s			0	0	cloudy	J. B. Campbell.

STATIONS.	Barometer: Corrected for instrumental error and for temperature.		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Smithville, North Carolina	30.53	775.4	30.57	776.5	47	8.3	68	e.	13	5.8	.....	1 cs	0	.....	.....	0	0	clear..	O. Parker.
Spokane Falls, Wash. Ter.	28.26	717 8	30.39	771.9	0.7	—17.4	77	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	H. Clifford.
Springfield, Illinois	29.71	754.6	30.44	773.2	15	— 9.4	83	ne.	14	6.3	.....	.....	10 n	.....	.....	0.04	1.0	lightsnow...	T. B. Jennings.
Springfield, Missouri	28.66	728.0	30.17	766.3	32	0.0	66	se.	12	5.4	.....	.....	10 s	.....	.....	inap.	inap.	cloudy..	J. H. Bryce.
Starkville, Miss.	29.82	757.4	30.32	770.1	43	6.1	68	e.	10	4.5	.....	.....	10 s	.....	e.	0	0	cloudy.....	C. Dill.
Stevenson, Fort, Dakota	28.70	729.0	30.72	780.3	—27	—32.8	100	nw.	15	6.7	.....	.....	10 s	.....	.....	0	0	cloudy.....	A. Schneider.
Stockton, Fort, Texas	26.76	679.7	29.89	759.2	53	11.7	44	w.	6	2.7	.....	2 c	0	w.	.....	0	0	clear.....	A. J. Warren.
Thatcher's Island, Mass.	30.59	777.0	30.65	778.5	16.6	— 8.6	83	nw.	15	6.7	.....	5 k	0	w.	.....	0	0	fair.....	G. Liebmann.
Thomas, Camp, Arizona	26.95	684.5	29.78	756.4	52	11.1	55	nw.	.....	.....	1	4 cs	5 ks	.....	.....	0	0	cloudy.....	J. T. Fitzgerald.
Toledo, Ohio	29.90	759.4	30.64	778.2	13	—10.6	61	e.	5	2.2	.....	.....	10 n	.....	.....	0.01	0.3	lightsnow...	A. Buell.
Tucson, Arizona	27.26	692.4	29.74	755.4	58	14.4	30	s.	6	2.7	.....	0	6 ks	.....	.....	0	0	fair.....	J. L. Whiteside.
Umatilla, Oregon	30.06	763.5	30.44	773.2	4	—15.6	85	ne.	20	8.9	.....	0	0	.....	.....	0	0	clear.....	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	45.6	7.6	71	sw.	.....	.....	4	.....	10 s	.....	sw.	0	0	cloudy.....	O. L. Pease.
Vicksburg, Mississippi	29.93	760.2	30.20	767.1	49.1	9.5	78	se.	7	3.1	.....	0	7 k	.....	s.	inap.	inap.	fair.....	James Keneally.
Visalia, California	29.58	751.3	29.96	761.0	31.7	— 0.2	93	sw.	1	0.4	.....	0	6 s	.....	.....	0	0	fair.....	O. D. Stewart.
Washakie, Fort, Wyoming.	24.34	618.2	30.10	764.5	—18.0	—27.8	85	e.	3	1.3	.....	.....	10 n	.....	.....	0.20	5.1	lightsnow...	T. M. Ambler.
Washington, D. C.	30.64	778.2	30.76	781.3	22.7	— 5.2	77	ne.	2	0.9	.....	6 c	0	n.	.....	0	0	fair.....	B. M. Purssell.
West Las Animas, Colorado	25.95	659.1	30.08	764.0	— 3.5	—19.7	100	e.	21	9.4	.....	.....	10 n	.....	e.	0.13	3.3	lightsnow...	F. H. Brandenburg.
Williamsport, Pa.	30.08	764.0	30.70	779.8	13	—10.6	80	w.	2	0.9	.....	.....	10 ks	.....	w.	0	0	cloudy.....	B. F. Hough.
Wilmington, N. Carolina	30.53	775.4	30.59	777.0	40	4.4	73	e.	7	3.1	.....	0	0	.....	.....	0	0	clear.....	Samuel A. Haney.
Winnemucca, Nevada	25.34	643.6	29.86	758.4	10.5	—11.9	74	sw.	4	1.8	.....	0	4 s	.....	w.	0.04	1.0	fair.....	J. Grover.
Yankton, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. H. Atfield.
Yuma, Arizona	29.64	752.8	29.79	756.7	50.7	10.4	68	nw.	16	7.2	.....	.....	10 s	.....	w.	0	0	cloudy	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.01	559.0	.....	.....	49.0	9.4	75	sw.	1	0.4	.....	5 c; cs	4ks;s	e.	nw.	0	0	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.10	764.5	30.11	764.8	71	21.7	78	n.	1	0.4	.....	0	6 s	.....	e.	0	0	fair.....	Robert Johnston.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	77	25.0	86	se.	.....	.....	2	6 k	8 ks	e.	.....	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Colombia	29.34	745.2	29.89	759.2	80	26.7	80	calm	.....	.....	0	2 c	0	.....	.....	0	0	clear.....	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	77	25.0	90	ne.	.....	.....	1	0	1 ks	.....	ne.	0	0	clear.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.44	773.2	30.50	774.7	32	0.0	78	calm	.....	.....	0	.....	10 n	.....	.....	0.68	17.3	snowing ...	W. J. Fisher.
St. Thomas, W. I.	30.05	763.3	30.18	766.6	76	24.4	76	e.	.....	.....	.....	0	3 k	.....	e.	0.05	1.3	clear.....	Ang. Wallon.
Havanna, Cuba	30.08	764.0	30.14	765.5	69.9	21.1	90	e.	4	1.8	.....	1 ck	1 k	e.	e.	0	0	clear.....	Benito Vines, S. J.
York Factory, H. A.	30.29	769.4	30.36	771.1	—28.0	—33.3	.....	nw.	21	9.4	.....	4 k	4 s	nw.	w.	0.01	0.3	snowy.....	Fortescue & Wood.

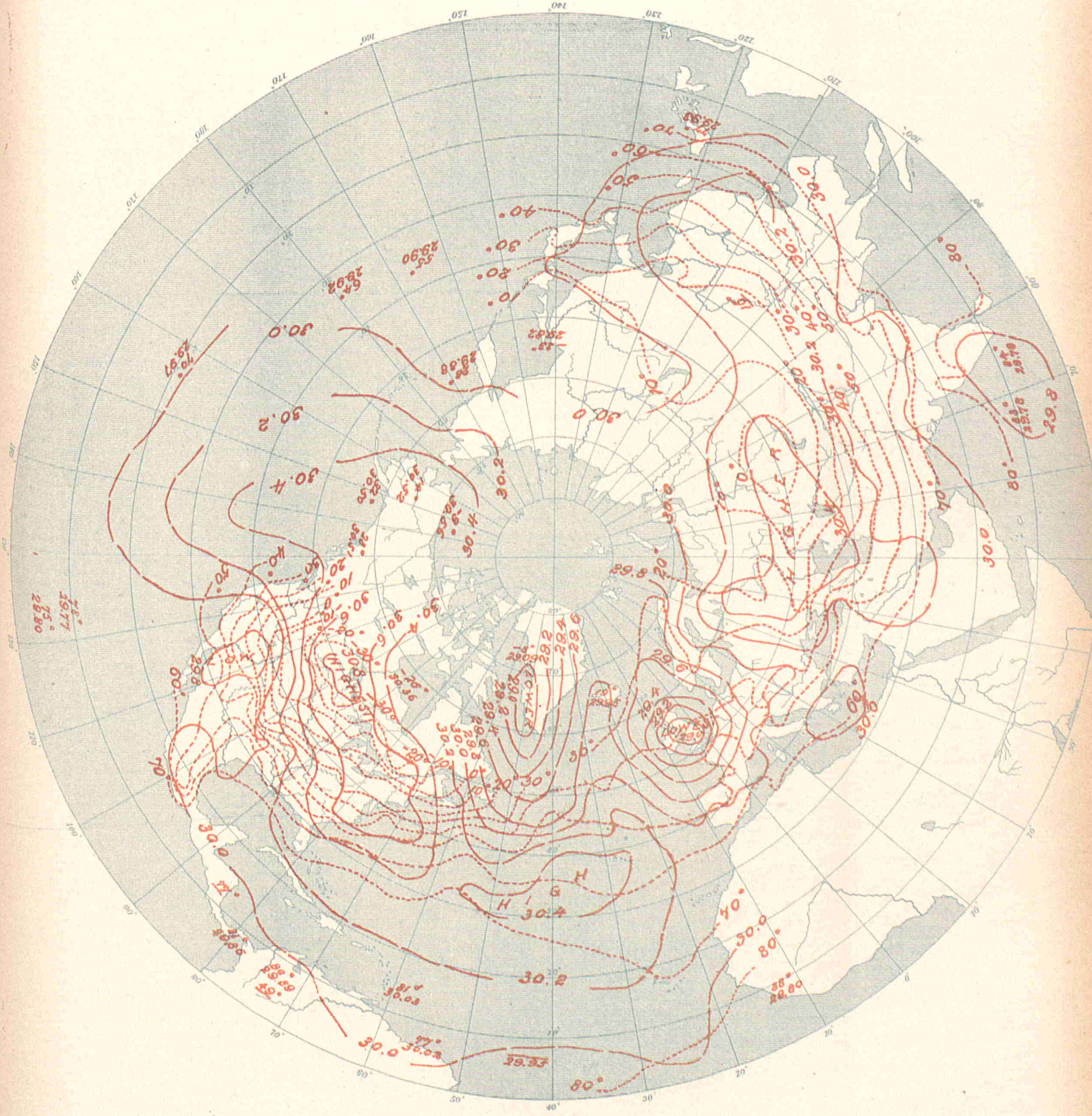
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell: Character.	Sea-swell: Direction from	Weather.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. Dock-Yard, Bermuda, W. I.	30.42	772.7	64	17.8	78	nnw.	.....	.....	1–2	.....	4	nw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Iron Duke, N. 35° 11′, E. 21° 10′	29.92	760.0	57	13.9	100	w.	.....	.....	5–6	.....	7	wsw.	.....	.....	.....	4	w.	showery.
H. M. S. Monarch, Port Said, Egypt	30.12	765.0	68	20.0	60	nnw.	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
U. S. Navy Yard, Portsmouth, N. H*	30.58	776.7	15	— 9.4	?	nw.	16	7.2	.....	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Alliance, N. 18° 00′, W. 82° 58′	30.02	762.5	79	26.1	86	ne.	.....	.....	5	.....	5	.....	.....	0	0	sm'h	.....	fair.
U. S. S. Enterprise, St. Vincent, Cape Verde Islands*	30.12	765.0	70	21.1	71	ne.	.....	.....	4	.....	5?	.....	ne.	.....	.....	sm'h	.....	clear?
U. S. S. Jamestown, N. 31° 39′, W. 52° 50′	30.42	772.7	69	20.6	75	s.	.....	.....	1	.....	10	.....	s.	.....	.....	sm'h	s.	cloudy.
U. S. S. Kearsarge, Curacoa Island, W. I.	30.01	762.2	80	26.7	91	ene.	.....	.....	3	.....	2	.....	e.	.....	.....	.....	.....	fair.
U. S. S. Lancaster, N. 38° 27′ E. 2° 08′	30.02	762.5	64	17.8	78	wsw.	.....	.....	3	.....	0	.....	.....	.....	.....	mod.	nw.	clear.
U. S. S. Nipsic, N. 23° 04′ W 28° 03′	30.31	769.9	68	20.0	74	e.	.....	.....	4	.....	5	.....	e.	.....	.....	long	e.	fair.
U. S. S. Portsmouth, N. 17° 12′, W. 56° 44′	30.13	765.3	75	23.9	85	ene.	.....	.....	6	.....	5	.....	e.	.....	....	long	e.	fair.
U. S. S. Quinnebaug, Villefranche, France	30.06	763.5	59	15.0	64	ssw.	.....	.....	1	.....	2	.....	ssw.	.....	.....	sm'h	s.	clear.
U. S. S. St. Louis, League Island, Pa.	30.75	781.0	16	—8.9	100	nw.	4	1.8	.....	.....	2	.....	.....	0	0	.....	.....	clear.
U. S. S. Tennessee, St. Thomas, W. I*	30.14	765.5	79	26.1	78	ne.	5	2.2	.....	.....	0	.....	.....	0.02	0.5	.....	.....	clear.
U. S. S. Vandalia, Cape Haytien, Hayti, W. I*	30.14	765.5	74	23.3	90	s.	.....	.....	1	.....	1	.....	calm	.....	.....	.....	.....	clear.
U. S. S. Yantic, Belize, British Honduras	30.04	763.0	78	25.6	95	ene.	.....	.....	3	.....	5	.....	.....	.....	.....	.....	.....	fair.
S. S. Illinois, N. 44° 01′, W. 48° 30′	29.94	760.5	36	2.2	90	wsw.	.....	.....	4	.....	9	.....	wsw.	.....	.....	mod.	ssw.	overcast.
S. S. Lord Clive, N. 48° 15′, W. 38° 00′	.....	.....	.....	.....	.....	s.	.....	.....	7	.....	10	.....	sw.	8 h'r	8 h'r	high	ssw.	rainy.
S. S. Lord Gough, N. 40° 23′ W. 69° 04′	30.68	779.3	30	— 1.1	.....	wsw.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Pennsylvania, N. 44° 46′, W. 53° 08′ †	29.87	758.7	36	2.2	?	wnw.	.....	.....	6	.....	8	.....	nw.	snow	snow	r'gh	wnw.	squally.
S. S. Circassian, N. 35° 18′, W. 6° 00′ *	28.94	735.1	.....	.....	.....	nne.	.....	.....	5	.....	10	.....	ne.	10 h'r	10 h'r	con.	.....	showery.
S. S. Grecian, N. 4° 55′ W. 29° 00′*	29.97	761.2	75	23.9	95	calm	.....	.....	0	.....	10	.....	se.	3 h'r	3 h'r	sm'h	.....	raining.
S. S. Manitoban, N. 55° 21′, W. 13° 14′	29.35	745.5	.....	.....	.....	n.	.....	.....	3	.....	6	.....	nnw.	5 h'r	5 h'r	h'vy	n.	fair.
S. S. Scandinavian, N. 42° 20′, W. 70° 51′	30.55	776.0	15	— 9.4	.....	wnw.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Ailsa, N. 10° 26′, W. 75° 37′†	29.99	761.7	84	28.9	87	ene.	.....	.....	5	.....	5?	.....	ene.	0	0	sm'h	ene.	cloudy?
S. S. Bolivia, N. 40° 31′, W. 72° 10′	30.69	779.5	25	— 3.9	.....	wnw.	.....	.....	4	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Dorian, N. 42° 24′, W. 42° 00′	30.11	764.8	56	13.3	.....	sw.	.....	.....	6	.....	10	.....	ssw.	4 h'r	4 h'r	r'gh	sw.	threatening.
S. S. Galatia, N. 37° 18′ E. 1° 44′ †	30.08	764.0	64	17.8	62	wsw.	.....	.....	3	.....	2	.....	wsw.	.....	.....	mod.	sw.	fair.
S. S. Landaff City, N. 45° 36′, W. 50° 34′	.....	.....	22	—5.6	.....	w.	.....	.....	6	.....	8	.....	wnw.	snow	snow	mod.	w.	cloudy
S. S. Bothnia, N. 40° 48′ W. 61° 45′	30.41	772.4	38	3.3	90	nnw.	.....	.....	5	.....	9	.....	nnw.	snow	snow	mod.	nw.	cloudy.
S. S. Gallia, N. 45° 50′, W. 39° 55′	29.78	756.4	56	13.3	94	sw.	.....	.....	7	.....	10	.....	.....	rain	rain	high	wsw.	
S. S. Parthia, N. 50° 14′, W. 18° 48′	29.90	759.4	44	6.7	75	n.	.....	.....	6	.....	5	.....	n.	4 h'r	4 h'r	con.	n.	squally.
S. S. Colina, N. 45° 53′, W. 33° 42 †	30.14	765.5	.....	.....	.....	sw.	.....	.....	5	.....	8	.....	wsw.	6 h'r	6 h'r	mod.	sw.	cloudy
S. S. Canada, N. 49° 52′, W. 15° 55′	.....	.....	39.4	4	.....	nw.	.....	.....	5	.....	k	.....	nw.	.....	.....	h'vy	nw.	sprinkling.
S. S. Labradore, N. 47° 29′, W. 31° 11′	.....	.....	42.8	6	.....	wsw.	.....	.....	5	.....	5	.....	.....	0	0	h'vy	nw.	fair.
S. S. Ville de Marseilles, N. 20° 55′, W. 83° 53′	.....	.....	75	23.9	.....	e.	.....	.....	6	.....	2	.....	ene.	0	0	mod.	ne.	clear.
S. S. Arizona, N. 46° 47′ W. 41° 16′	29.71	754.6	50	10.0	.....	wsw.	.....	.....	6	.....	10	.....	w.	6 h'r	6 h'r	.....	w.	overcast.
S. S. Bohemia, Hamburg, Germany †	29.67	753.6	.....	.....	.....	se.	.....	.....	5	.....	5 k	.....	.....	0	0	.....	.....	squally.
S. S. Rugia, N. 49° 53′, W. 23° 47′	.....	.....	46	7.8	.....	nw.	.....	.....	6–8	.....	5	.....	n.	.....	.....	rg'h	n.	squally.
S. S. Silesia, Havre, France †	29.26	743.2	50.0	10.0	93	sw.	.....	.....	9	.....	8	.....	sw.	0	0	6–7	sw.	cloudy.
S. S. Mentmore, N. 48° 43′, W. 34° 45′*†	29.90	759.4	.....	.....	.....	ssw.	.....	.....	7	.....	10	.....	sw.	4 h'r	4 h'r	high	sw.	drizzling.
S. S. San Marcos, N. 27° 40′ W. 90° 20′	.....	.....	72	22.2	.....	ese.	.....	.....	5	.....	0	.....	.....	0	0	sm'h	e.	hazy.
S. S. Chalmette, N. 27° 10′, W. 86° 30′†	30.27	768.8	73	22.8	.....	se.	.....	.....	6	.....	10	.....	se.	0	0	mod.	se.	cloudy.
S. S. New York, N. 31° 20′, W. 79° 00′†	30.43	772.9	68	20.0	.....	ese.	.....	.....	6	.....	5?	.....	e.	0	0	r'gh	e.	clear?
S. S. Lone Star, N. 34° 21′, W. 76° 27′†	30.49	774.4	50	10.0	.....	ne.	.....	.....	3	.....	0	.....	.....	0	0	mod.	ne.	clear.
S. S. Hermod, N. 40° 32′, W. 58° 22′†	30.32	770.1	53.6	12	.....	nw.	.....	.....	7	.....	6	.....	wnw.	4 h'r	4 h'r	r'gh	nw.	cloudy.
S. S. Alleghany, Boston, Mass †	30.48	774.2	18	— 7.8	.....	n.	.....	.....	4	.....	6	.....	e.	0	0	.....	.....	cloudy.
S. S. Archimede, N. 38° 33′, E. 10° 20′†	30.11	764.8	64	17.8	.....	w.	.....	.....	4	.....	2	.....	w.	0	0	h'vy	wsw.	clear.
S. S. Picqua, N. 38° 48′, W. 66° 20′	.....	.....	48	8.9	.....	nw.	.....	.....	5	.....	5	.....	nw.	0	0	light	nw.	fair.
S. S. City of Washington, N. 37° 48′, W. 74° 32′†	30.78	781.8	46	7.8	.....	ene.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Santiago, N. 29° 10′, W. 74° 34′	30.27	768.8	68	20.0	.....	ene.	.....	.....	4	.....	6?	.....	e.	0	0	mod.	e.	overcast?
S. S. Erin, N. 45° 48′, W. 48° 41′	29.78	756 4	32	0.0	.....	wsw	.....	.....	7	.....	6	.....	wnw.	10 h'r	10 h'r	r'gh	wsw.	sleeting.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
									Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																	
S. S. Greece, N. 45° 20′, W. 35° 47′	29.96	761.0	51	10.6		sSW.			6		10		sw.	7 h'r	7 h'r	h'vy	sw.	raining.
S. S. Braunschweig, N. 0° 40′, W. 31° 11′	29.93	760.2	82.0	27.8	83	e.			3		8		e.	0	0	light	var.	cloudy.
S. S. Hermann, N. 47° 07′, W. 26° 57′	30.20	767.1	46.4	8.0	72	wnw.			5		8		wnw.	4 h'r	4 h'r	4	wnw.	cloudy.
S. S. Belgenland, Jersey City, N. J*†	30.82	782.8	14	−10.0		nnw.			3		0			0	0			clear.
S. S. Rhynland, Antwerp Belguim	29.47	748.5	47	8.3	85	s.			7		5		sSW.					squally.
S. S. Pennland, N. 47° 36′, W. 40° 03′	29.77	756.1	52	11.1	93	sW.			6		7		w.	20 h'r	20h'r	cross	sw.	raining.
S. S. Switzerland, N. 41° 58′, W. 62° 12′†	30.32	770.1				wnw.			6		10		wnw.	0	0	r'gh	wnw.	cloudy.
S. S. Waesland, N. 50° 02′, W. 27° 10′	30.22	767.6	40	4.4		w.			4		9		wnw.	rain	rain	long	wnw.	cloudy.
S. S. Zeeland, N. 47° 30′, W. 37° 30′*†	29.84	757.9	46	7.8		sse.			6		5		sw.	8 h'r	8 h'r	cross	s.	fair.
S. S. P. Caland, N. 51° 25′, E. 2° 00′	29.03	737.3	48.6	9.2	89	sSW.			8		8		sW.			7	sw.	cloudy.
S. S. Schiedam, N. 48° 12′, W. 25° 05′	30.20	767.1	46.0	7.8		nw.			4		7		n.	2 h'r	2 h'r	h'vy	nnw.	fair.
S. S. Zaandam, N. 44° 40′, W. 49° 40′	30.00	762.0	45.7	7.6	97	w.			5		6 k		w	2 h'r	2 h'r	4	w.	squally.
S. S. Claudius, Greytown, Nicaragua, C. A†	30.08	764.0	79.0	26.1	86	ne.			4		10		ene.	hv'y	h'vy	long	ne.	rainy.
S. S. Valencia, La Guayra, Venezuela†	30.04	763.0	80	26.7	74	ene.			3		3		ene.	1 h'r	1 h'r	mod.	ne.	fine.
S. S. State of Florida, N. 50° 32′, W. 28° 56′	30.09	764.3	42	5.6		n.			2		0		ne.	0	0	mod.	nnw.	cloudy.
S. S. State of Indiana, N. 51° 02′, W. 32° 28′ *†	29.90	759.4	42	5.6		sSW.			6		10		wsw.	2 h'r	2 h'r	mod.	n.	threatening.
S. S. Marengo, N. 40° 35′, W. 68° 45′						wnw.			6		1		wnw.	0	0	mod.	wnw.	clear.
S. S. Romano, N. 39° 54′, W. 65° 33′ *	30.01	777.5	38	3.3		wnw.			6		9		nw.	3 h'r	3 h'r	long	w.	cloudy.
S. S. Salerno, N. 49° 29′, W. 17° 04′ †	29.85	758.2	42	5.6		nw.			7		6		nnw.	2 h'r	2 h'r	h'vy	nnw.	raining.
S. S. Brooklyn, N 52° 00′ W. 6° 50′						nw.			8				nw.	0	0	short	nw.	cloudy.
S. S. Dominion, N. 51° 01′, W. 29° 39′*†	30.20	767.1	44	6.7		s.			2		10		s.	0	0	long	wnw.	gloomy.
S. S. Surrey, N. 46° 38′, W. 24° 48′ †	30.18	766.6	46	7.8		nnw.			6		3		nnw	0	0	hv'y	n.	rainy.
S. S. Lake Huron, N. 45° 53′, W., 42° 45′*	29.53	750.0	50	10.0		w.			7		1		w.	2 h'r	2 h'r	r'gh	w.	
S. S. Plantyn, N. 50° 47′, W. 2° 50′									5		5		w.	18 h'r	18 h'r	high	wsw.	squally.
S. S. Catherine Whiting, Providence, R. I†	30.73	780.5	88	31.1		nw.			1					0	0			
S. S. Norman, N. 38° 52′, W. 74° 57′*†	30.80	782.3				ene.			1					0	0	sm'h		clear.
S. S. Saxon, Philadelphia, Pa						n.			5		1		se.					fine.
S. S. Adriatic, N. 50° 08′ W. 23° 35′			40	4.4		nnw.			5		5?		n.	5 h'r	5 h'r	mod.	n.	cloudy?
S. S. Baltic, N. 40° 28′, W. 68° 25′*	30.59	777.0	26	− 3.3		nw.			9		9		nw.	0	0	light	nw.	d clouds.
S. S. Britannic, N. 45° 00′, W. 53° 26′ †	29.99	761.7	30	−1.1	100	wnw.			6		8		wnw.	2 h'r	2 h'r	r'gh	w.	gloomy.
S.S. Republic, N. 50° 18′, W. 22° 52′†	30.00	762.0	47	8.3	77	nnw.			6		7		nnw.	2 h'r	2 h'r	6	nnw.	squally.
S. S. Iowa, N. 48° 44′, W. 31° 08′ *†	30.28	769.1	46	7.8		sw.			4		9		sw.	2 h'r	2 h'r	r'gh	nw.	cloudy.
S. S. Parthia, N. 50° 12′, W. 19° 02′	29.78	756.4	42.5	5.8	92	nnw.			6		5							squally.
S. S. Antonio Lopez, N. 30° 14′, W. 21° 20′	30.21	767.3	64	17.8	68	n.			6		1			6 h'r	6 h'r	r'gh	n.	clear.
Schr. Abbie H Gheen, N. 32° 49′ W. 78° 40′†	30.54	775.7	60	15.6		ene.			4									clear.
Bg. Abbie Clifford, N. 23° 30′, W. 81° 35′ †	30.15	765.8	76	24.4		ene.			4		2		ene.	0	0	small		fair
Bg. Alcira, Maracaybo, Venezuela, S. A.	29.99	761.7	81	27.2		ene.			2		2		ene.	0	0			clear,
Schr. Annie A. Holton, Tampico, Mexico†	30.03	762.7	75	23.9		nw.			1		10			0	0	sm'h		misty.
Schr. Annie R. Lewis, St Pierre, Martingue, W. I†	30.15	765.8	78	25.6		ene.			1		2		ene.	4 h'r	4 h'r			clear,
Bk. Aureola, Swansea, Wales*†	29.30	744.2	47	8.3		s.			1		0		s.	10 h'r	10 h'r	gr'd	wsw.	cloudy.
Bk. Achille F., N. 42° —′, W. 36° —′†	30.34	770.6	58	14.4	76	sw.			6		9		sw.	0	0	mod.	sw.	cloudy.
S. Armenia, N. 37° 40′ W. 60° 51′*	30.31	769.9	54	12.2	74	nw.			6		7		nw.	0	0	r'gh	var.	
Bg. Belle of the Bay, N. 29° 54′, W. 88° 38′†	30.21	767.3				ene.			6		0?			0	0	sm'h	e.	overcast,?
Bk. Bremen, N. 23° 14′, W. 58° 15′*	30.29	769.4				ene.			5		2		ene.	rain	rain	cross	var.	clear.
Bkt. Bonny Doon, N. 25° 31′, W. 53° 15′*†	30.28	769.1				e.			3		8		ene.	0	0	long	e.	cloudy.
Bk. Bare, N. 35° 31′, W. 49° 45′			70	21.1		s.			4		6		sSW.	0	0	sm'h	var.	hazy.
Bk. Champion, N. 39° 14′, W. 72° 31′			49	9.4		nnw.			3		1		sW.	0	0	mod.	wnw.	clear.
Bkt. C. S. Bushnell, N. 37° 30′, W. 38° 30′	30.58	776.7				s.			3		8		s.	0	0	h'vy	n.	fine.
S. Cornelius, N. 59° 43′, W. 3° 32′*†	29.33	745.0	42.8	6.0		e.			6		0			7 h'r	7 h'r	long	w.	squally.
Bk. Commerce, Cadiz, Spain †	30.05	763.5	62	16.7		sSW.			4		5		sw.	0	0			fine.
Bk. Ceres, N. 32° 51′ W., 40° 42′ *	30.47	773.9	65.8	18.8	83	sSW.			1		9		wsw.	0	0	long	var.	cloudy.
Bk. Chas. Stewart, N. 38° 15′. W. 66° 50′†	30.66	778.7	40	4.4		nw.			6		5		nw.	0	0	mod.	wnw.	fair
S. S. D. J. Foley, N. 32° 02′, W. 74° 55′*†	30.45	773.4	65	18.3	94	ne.			4		6		nne.	0	0	r'gh	nne.	fair.
Schr. Edith R. Seward, N. 18° 05′, W. 69° 30′ †	30.18	766.6	79	26.1		ene			4		3		ese.	0	0	mod.	ese	clear.
S. E. J. Spicer, N. 44° 24′, W. 29° 15′	30.06	763.5	51	10.6	93	nnw.			6		5		nnw.	sq'lls	sq'lls	high	nw.	½cloudy
Bk. E. D. Bigelow, N. 39° 10′, W. 29° 00′*†	30.30	769.6				nnw.			3		8		nnw.	0	0	long	nnw.	cloudy.
S. E. B. Sutton, N. 2° 55′, W. 26° 30′ †	30.01	762.2	81	27.2	82	ese.			2		8			0	0	sm'h		fair.
S. Festina Lente, N. 59° 30′, W. 4° 49′	29.34	745.2	44	6.7		ese.			6		10		sse.	snow	snow	long	w.	cloudy.
S. Grecian, N. 6° 42′, W. 20° 40′†	30.02	762.5	78	25.6	86	ne.			5		2		ne.	0	0	sm'h	ne.	hazy.
Bk. Grey Eagle, N. 6° 53′, W. 43° 40′*†	29.85	758.2				ne.			5		0			0	0	h'vy	ne.	clear.
Bg. George, Ponce, Porto Rico W. I*†	30.20	767.1				ne.			3		2			0	0	sm'h		fair.
Bk. Henrich & Tonio, N. 29° 09′, W. 57° 30′†	30.33	770.4	77	25.0		calm			0					0	0	light	e.	clear.
Schr. Hattie Weston, N. 10° 08′. W. 61° 10′*†	30.01	762.2	78	25.6		ene.			3		5		ene.	0	0	short	ese.	fair.
Bk Hattie G. McFarland, N. 17° 50′, W. 78° 02′ *†	30.19	766.8	78	25.6		ene.			4		3		e.	0	0	long	e.	fair.
Bk. Horace Scudder, S. 33° 03′, W. 55° 48′ *†	30.40	772.1	70	21.1		sSW.			4		7		sSW.	0	0	short	s.	fine.
S. S. J. W. Wilson, Brazos, Santiago, Texas* †	29.90	759.4	70	21.1		s.			5		2		s.	0	0			fair.
Bk. Johanne, N. 24° 33′, W. 63° 07′ *†	30.27	768.8	77	25.0		nne.			5		5		nne.	0	0	mod.	ne.	fine.
Schr. John L. Thomas, Vivorilla Cays, C. A*†	30.08	764.0				ene.			3		2		ene.	¾ h'r	¾ h'r			clear.
Bg. L. & W. Armstrong, N. 33° 09′, W. 62° 07′ *†	30.50	774.7				n.			5		1		nne.	0	0	mod.	w.	clearing.
Bg. Lilian, Mouth Rappahannock river, Va †	30.09	779.5	29	− 1.7		ene.			5		0			0	0			clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3				e.			1		7		e.	0	0			fine.
Bk. Mary A. Troop, Nash Point, Eng*†	28.70	729.0				calm			0		3		w.	10 h'r	10 h'r			threatening
Schr. Minnie A. Bonsall, Mayport, Fla †	30.43	772.9	64	17.8		n.			1		5		n.	0	0			fair.
Bk. Matilda C. Smith, N. 45° 38′, W. 23° 55′†	30.21	767.3				nnw.			5		5		nnw.	0	0	r'gh	nw.	clearing.
Bgt. Myrtle, St. Thomas, W. I						ene.			5		2		ene.	2 h'r	2 h'r			fair.
S. M. P. Grace, N. 0° 54′, W. 32° 32′*	29.86	758.4	80	26.7		e.			3		5		ne.	0	0		nne.	
Bkt. Norena, Matanzas, Cuba, W. I						ese.			1		2		ene.	0	0			fine.
Schr. Ocean Traveler, St. John's, Antigua, W. I†	30.08	764.0				e.			5		4							fair.
Bk. Ottawa, Alicante, Spain*	30.00	762.0	59	15.0		wsw.			3		0			0	0			clear.
S. S. Raleigh, N. 37° 50′, W. 75° 00′			54	12.2		n.			1		0			0	0	sm'h		clear.
Bk. Reindeer, St Pierre, Martinique, W. I *	30.09	764.3				ene.			6				ene.					squally.
S. Rudolph, N. 40° 45′, W. 31° 22′*	30.12	765.0	54.0	12.2		w.			1		6		wsw.	3 h'r	3 h'r	high	var.	fair.
Bk. Saga, N. 43° 10′, W. 44° 15′						sw.			4–9		10		wnw.	20 h'r	20 h'r	8	var.	
Bk. Usko, Belfast Lough, Eng*†	28.90	734.0				n.			2		4?		n.	0	0			cloudy?
Schr. Wm. Wiler, Pointe a Pitre, Guadeloupe, W. I.†	30.06	763.5				e.			1		5		e.	3 h'r	3 h'r			fine
District No. 2—South Atlantic																		
H. M. S Heroine, Montevideo, Uruguay	29.89	759.2	68	20.0	95	calm			0		2					sm'h		d. clouds.
H. M. S. Fawn. S. 3° 44′, W. 18° 48′	29.94	760.5	80	26.7	90	se.			3		3					2	se.	d clouds.
U. S. S. Brooklyn, S. 35° 20′, W. 54° 51′*	29.95	760.7	70	21.1	84	w.	10	4.5			5		w.	0	0	sm'h		fair.
U. S. S Galena, Montevideo, Uruguay*	30.02	762.5	70	21.1	75	wnw.			2		10		wsw.			sm'h		cloudy.
S. S. Archimede, S. 9° 11′, W. 34° 53′	29.90	759.4				ese.			1		1		ene.	0	0	light	var.	clear.
S. S. Hevelius, S. 34° 20′, W. 52° 20′†	30.12	765.0	74	23.3		w.			5		2		wsw.	0	0	sm'h		clear.
S. S. Auckland, S. 22° 06′, W. 17° 45′	30.12	765.0	77	25.0	72	ene.			4		7							blue sky.
S. S. City of Agra, S. 10° 50′, W. 32° 49′	30.01	762.2	84.8	29.3	84	ne.			4		6							showery.
S. S. Caldew, S. 34° 22′, E. 17° 40′	30.00	762.0	69	20.6	82	nw.			3		3							d. clouds.
Bk. May Hulse, S. 42° 06′ W. 56° 11′	29.83	757.7	54.5	12.5	70	wsw.			6		10							overcast.
S. S Ambrose, Para Brazil†	29.98	761.5	80	26.7		var.			1–2		5		ne	3 h'r	3 h'r			fine.
Bk. Anna Thormann, S. 2° 35′, W. 24° 23′*	29.98	761.0	80.6	27.0	71	ese.			4	0	2 k		se.	0	0	mod.	se.	clear.
Bg. Annie R. Storer, S. 21° 05′, W. 32° 45′*†	30.28	769.1				nne.			5		2		ne.	1 h'r	1 h'r	sm'h	ene.	fair.
Bk. Edmund Phinney, S. 42° 18′, W. 51° 33′ †	29.72	754.9	50	13.3		wsw.			6		10		wsw.	slight	slight	h'vy	wsw.	stormy.
Bk. E. L. Pettingill, S. 47° 50′, W. 47° 30′*†	29.10	739.1	45	7.2		sW.			6		10		sw.	0	0	long	sw.	
S. George Stetson, S. 43° —′, W. 51° —′ *†	29.50	749.3	58	14.4	70	wsw.			6		7		w.	0	0	chop	ne.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2—South Atlantic.—Continued.																	
Bkt. Josephine, S. 35° 49′, W. 0° 45′ †	30.11	764.8	70	21.1	57	sse.			5		10		0	0	mod.	sse.	cloudy.
S. Titan, S. 9° 32′, W. 34° 18′*†	30.05	763.3	82	27.8	87	se.			2		1		0	0	sm'h	e.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay †	30.06	763.5	68	20.0		nw.			3		2	se.	0	0			clear.
S. Sacramento. S. 38° 34′, W. 16° 49′ *†	30.18	766.6	66	18.9	90	ne.			6		10	nw.	0	0	mod	n.	squally.
District No. 3—North Pacific.																	
S. S. Arabic, N. 34° 53′, E. 162° 06′	29.90	759.4	55	12.8	80	nne.			4		2	nne.	0	0	sm'h	n.	clear.
S. S. Belgic, Hong Kong, China *†			50	10.0	72	n.			3		10	n.	0	0	sm'h		overcast.
S. S. Gaelic, N. 34° 20′, E. 138° 21′	29.94	760.5	49	9.4	85	ne.			5		10	nne.	6 h'r	6 h'r		ne.	cloudy.
S. S. Oceanic, N. 36° 14′, W. 136° 51′*	30.40	772.1	53	11.7	86	nne.			6		7	n.			mod.	nne.	cloudy.
S. S. Columbia, N. 45° 25′, W. 124° 10′†	30.27	768.8	26	—3.3	52	ene.			5		0				mod.	nnw.	clear.
S. S. Mississippi, Seattle, Wash. Ter †	30.43	772.9	23	— 5.0	60	e.			1		5	nnw.			mod.	nnw.	clear.
S. S. Willamette, N. 42° 00′, W. 124° 40′†	30.28	769.1	31	— 0.6	100	n.			6		3	n.	0	0	r'gh	n.	fair.
S. S. City of Chester, Eureka, Cal *†	30.04	763.0	41	5.0	91	nw.			6		0		hail	hail			clear.
S. S. Dakota, N. 47° 59′, W. 124° 25′*†	30.30	769.6	28	—2.2	77	nw			5		5?	nw.	0	0	mod.	nw.	clear?
S. S. G. W. Elder, N. 38° 20′, W. 123° 30′†	30.00	762.0	43	6.1	83	nnw.			3		0				sm'h		clear.
S. S. Orizaba, N. 32° 40′, W. 117° 14′*†	30.04	763.0	50	10.0	55	wsw.			6			sw.	2 h'r	2 h'r	h'vy	sw.	cloudy.
S. S. Queen of the Pacific, N. 38° 00′, W. 122° 58′†	29.96	761.0				nw.			2		5?					w.	cloudy?
S. S. City of Pekin, Yokohama, Japan†	29.89	759.2	32	0.0	?	n.			2		10	n					overcast.
S. S. City of Tokio, N. 32° 37′, E. 175° 38′†	29.92	760.0	64	17.8	89	sse.			3		8	se.	h'vy	h'vy	small	sse.	rainy.
S. S. City of Rio de Janeiro, N. 7° 10′, W. 80° 26′			81	27.2	74	ne.			2		5	ne.	0	0	light	ne.	fair.
S. S. Colima, N. 34° 40′ W. 121° 37′†	29.98	761.5	45	7.2	92	nw.			6		6	wnw	0	0	r'gh	wnw.	cloudy.
S. S. Grenada, N. 9° 20′, W. 84° 32′ †	29.98	761.5	79	26.1	82	nnw.			2		0		0	0	sm'h	w.	clear.
H. M. S Curacoa, Yokohama, Japan			32.5	0.3	100	n.			2–3		4						d. clouds.
U. S. Naval Hospital, Yokohama, Japan*	29.98	761.5	68	20.0		calm			0		2						d clouds.
U. S. S. Independence, Mare Island, Cal	30.04	763.0	32	0.0	79	nnw.			1		10		0.95	24.1			gloomy.
U. S. S. Lackawanna, Honolulu Sandwhich, Islands*.	29.98	761.5	35	1.7	90	wnw.			2		0		0	0			clear.
U. S. S. Monocacy, N. 30° 30′, E. 125° 30′	29.97	761.2	70	21.1	70	ne.			2		2	ne.					clear.
U. S. S. Palos, Tientsin, China*	30.22	767.6	42	5.6	66	nw.			6		10	nw.			r'gh	nw.	cloudy.
U. S. S. Ranger, San Diego, Cal	30.18	766.6	18	— 7.8	100	s.			1		0						clear.
U. S. S. Richmond, Hong-Kong, China *	30.00	762.0	51	10.6	65	w.			3		8	w.	0	0	sm'h		clear.
U. S. S. Wachusetts, N. 22° 14′ W. 154° 00′	30.18	766.6	58	14.4	88	nw.			2		10	n.	0	0			cloudy.
Bk. Childwall, N. 8° 10′. W. 125° 39′*	29.98	761.5	72	22.2	90	s.			2		0				mod	ese.	clear.
British Merchant, N. 5° 04′, W. 124° 24′	29.77	756.1	78	25.6		ne.			5		10	ne.	4 h'r	4 h'r	sm'h		squally.
Tamega, Macao, China	29.80	756.9	74.6	23.7		ese.			3		9						showery
	30.32	770.0	45.5	7.5	79	n.			6		10		7 h'r	7 h'r			raining.
District No. 4—South Pacific.																	
H. M. S. Comus, Off San Lorenzo, Bolivia	29.95	760.7	66	18.9	94	sse.			1		8						foggy.
H. M. S Lark, S. 36° 50′, E. 174° 49′	30.07	763.8	70.3	21.3	90	calm			0		4				sm'h		d. clouds.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′*	29.92	760.0	62	16.7		nne.			2						sm'h		d. clouds.
H. M. S. Rocket, S. 42° 00′, W. 73° 10′	30.10	764.5	56	13.3		ssw.			1		5	ssw.					d. clouds.
H. M. S. Swiftsure, Galapago Id, S. A.	29.89	759.2	74	23.3	100	se.			2		5	se.					d. clouds.
H. M. S. Sylvia, Port Tamar, Patagonia	30.14	765.5	48.5	9.2	95	w.			4		9						misty.
U. S. S. Essex, Callao, Peru	29.86	758.4	66	18.9	89	calm			0		10						misty.
U. S. S. Iroquois, S. 16° 28′, W. 85° 46′	29.95	760.7	71	21.7	75	sse.			3		8	sse.			mod.	se.	fair.
U. S. S. Onward, Callao, Peru*†	30.00	762.0	66	18.9	94	calm			0		10	n.					foggy.
U. S. S. Pensacola. Callao, Peru*	29.80	756.9	67	19.4	95	calm			0		10		0	0			foggy.
Bk. Gronsvaer, Auckland, New Zeland†	30.07	763.7	73.5	23.1		ne.			2		1	n.	0	0			clear.
S. S. Australia, S. 25° 32′, W. 177° 12′ *	29.73	755.1	73	22.8	85	e.			2		7	ese.	1 h'r	1 h'r	sm'h		cloudy.
S. S City of Sydney, Sydney, N. S. W†	29.78	756.4	73	22.8	72	se.			2		8	se.	¼h'r	¼h'r			drizzling.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.04	763.0	72	22.2	90	var.					10				mod.	var.	dull.
Bk. Warden Law, Pisagua, Peru*	29.94	760.5	59	15.0	76	calm			0		0						misty.
S. Sovereign of the Seas, S. 37° 18′, W. 122° 09′*†	30.12	765.0				s.			3		4?	s.	0	0	sm'h	s.	cloudy.?
	30.26	768.6	62	16.7	88	sse.			2		8		2 h'r	2 h'r	h'vy	sw.	cloudy.
District No. 5—Indian Ocean.																	
H. M. S. Dryad, N. 4° 40′ E. 72° 30′	29.78	756.4	84	28.9		nw.			3		8	nw.			2	n.	d. clouds.
H. M. S. Eclipse, N. 18° 54′ E. 72° 49′	29.78	756.4	76	24.4		wnw.			3		2	nnw.			2	n.	d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.84	757.9	79	26.1	90	n.			3		5	n.					showery.
H. M. S. Himalaya, N. 10° 05′, E. 66° 12′	29.78	756.4	83	28.3	71	ne.			3–4		6				2	ne.	d. clouds.
H. M. S. Woodlark, Bushire, Persia	30.13	765.3	59.5	15.3	94	nw.			5		2				3	nw.	squally.
S. S. Scotia, N. 7° 23′, E. 75° 11′	29.79	756.7	83.5	28.6	68	n.			1		7						d. clouds.
Bk. Essex, S. 24° 00′, E. 35° 55′ *†	29.85	758.2	84	28.9		sse			2		2	se.	0	0	long	se.	fine.

International Chart I. February 2, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B. Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FERBUARY 3, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.04	763.1	59.7	15.4	85	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.06	763.5	70.9	21.6	37	s.	.....	.....	1	.....	4	.....	.....	0	0	cloudy	Thève.
La Galle	.....	.....	30.15	765.9	68.0	20.0	40	s.	.....	.....	5	.....	1	.....	.....	0	0	very fair	Fonfrède.
Tunis	.....	.....	30.17	766.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.10	764.6	68.7	20.4	71	sse.	.....	.....	4	.....	2	.....	.....	0	0	fair	Pérès.
Tebessa	.....	.....	30.26	768.5	63.0	17.2	66	ese.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dognon.
Geriville	.....	.....	.....	.....	57.9	14.4	18	ssw.	.....	.....	7	.....	0	.....	.....	0	0	clear	Forfert.
Laghouat	.....	.....	30.21	767.4	57.2	14.0	35	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.24	768.2	66.6	19.2	28	nw.	.....	.....	1	.....	2	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.97	761.2	30.06	763.5	61.0	16.1	75	sse.	14	6.3	.....	.....	9	.....	.....	0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.66	753.3	30.22	767.5	50.0	10.0	63	sw.	.....	.....	2	.....	6	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.37	746.0	30.16	766.1	40.3	4.6	90	ne.	0	0	.....	.....	8	.....	.....	0.012	0.3	.....	Dr. Wierzbiski.
Eperies	29.32	744.6	30.22	767.6	43.0	6.1	81	s.	.....	.....	1	.....	10 8	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.85	732.7	30.15	765.7	39.9	4.4	84	sw.	.....	.....	2	.....	3	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.81	731.8	30.29	769.4	41.7	5.4	84	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'ty	28.78	731.0	30.19	766.7	34.3	1.3	92	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	The Staff.
Lemberg	29.18	741.1	30.19	766.9	42.1	5.6	74	s.	.....	.....	1	.....	4	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.74	679.1	30.16	766.0	43.7	6.5	70	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.15	765.7	30.26	768.6	53.2	11.8	80	sse.	.....	.....	1	.....	1	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.77	756.2	30.24	768.0	44.6	7.0	65	se.	.....	.....	1	.....	10	.....	.....	0	0	.....	Joseph Midlinszay, S. J.
Szegedin	29.95	760.8	30.24	768.1	46.0	7.8	75	s.	.....	.....	2	.....	4	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.15	765.8	30.25	768.3	54.7	12.6	68	se.	.....	.....	1	.....	8	.....	.....	0	0	.....	Royal Academy.
Vienna	29.50	749.2	30.25	768.3	35.2	1.8	98	calm	.....	.....	0	.....	10	.....	.....	0	0	foggy	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.27	743.4	29.37	746.0	41.6	5.3	95	n.	7	3.1	.....	.....	10	.....	.....	0.185	4.7	raining	W. Boswell
Armagh, Observatory	29.23	742.4	29.46	748.3	.....	.....	.....	sw.	10	4.5	.....	.....	8	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.54	750.3	43.9	6.6	60	sw.	26	11.6	.....	.....	3	.....	.....	.....	.....	blue sky	John Hartnup.
Bolton, Sharples	29.01	736.8	29.55	750.6	40.9	4.9	77	ssw.	6	2.7	.....	.....	5	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.14	740.1	29.53	750.0	40.8	4.9	76	sw.	.....	.....	2	.....	5	.....	.....	0.01	0.3	d. clouds	McLandsborough&Preston
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	81.0	27.2	70	ne.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	Corpl.J.Surgenor, A.H.C.
Cardington	.....	.....	.....	.....	40.2	7.9	97	wsw.	.....	.....	4.0	.....	2	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E.	29.66	753.4	29.79	756.7	42.1	5.6	79	s.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	Corpl. G. A. Pickles.
Falmouth, Observatory	29.54	750.3	29.78	756.4	43.5	6.4	71	wsw.	.....	.....	3	.....	6	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.54	699.5	29.78	756.4	88.0	31.1	53	e.	.....	.....	2	.....	1	.....	.....	.....	.....	blue sky	Corpl. F. Milner, A. H. C.
Freetown	29.58	751.3	29.81	757.2	86.0	30.0	88	nw.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	29.46	748.3	29.50	749.3	43	6.1	91	w.	.....	.....	2	.....	3	.....	.....	0	0	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	29.94	760.5	30.00	762.0	55.0	12.8	93	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	gloomy	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.21	741.9	29.41	747.0	38.6	3.7	90	wsw	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	Harry Urquhart, Asst
Greenwich, Royal Obs'y	29.58	751.3	29.70	755.9	41.8	5.4	79	ssw.	.....	.....	5	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.54	750.3	29.84	757.9	43.5	6.4	83	wsw.	.....	.....	3	.....	6	.....	.....	.....	.....	squally	A. Coltenette, F. M. S
Kew, Observatory	29.72	754.9	29.70	755.9	43.7	6.5	74	ssw.	24	10.7	.....	.....	4	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.39	746.5	29.65	753.1	44.0	6.7	67	sw.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	30.23	767 8	30.30	769.6	59.0	15.0	95	nw.	.....	.....	2	.....	7	.....	.....	0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.26	768.6	30.31	769.9	75.0	23.9	70	ne.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.09	738.9	29.62	752.3	41.5	5.3	81	ssw.	.....	.....	7	.....	8	.....	.....	.....	.....	threatening	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.47	748.5	29.70	754.4	45.4	7.4	73	ssw.	.....	.....	6	.....	7	.....	.....	.....	.....	squally	The Staff.
Plymouth	29.60	753.4	29.73	755.1	43.5	6.4	81	wsw.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.38	746.2	29.48	748.8	39.3	4.1	91	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.19	766.8	30.26	768.6	50.4	10.2	97	ne.	.....	.....	2	.....	1	.....	.....	.....	.....	blue sky	W. H. Lyne.
Sheffield	29.36	745.7	29.64	752.8	44.0	6.7	67	sw.	.....	.....	2	.....	1	.....	.....	0.01	0.3	blue sky	W. F. Cooper.
Silloth Rectory	29.40	746.7	29.43	747.5	40.0	4.4	95	sw.	.....	.....	5	.....	10	.....	.....	0.165	4.2	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.50	750.8	42.0	5.6	69	sw.	17	7.6	.....	.....	7	.....	.....	.....	.....	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.52	749.8	29.74	755.4	43.8	6.6	79	sw.	.....	.....	2	.....	5	.....	.....	.....	.....	showery	Rev.C.H.Griffiths, F.M.S.
Truro, Royal Institution	29 72	754.9	29.70	755.9	48	8.9	71	sw.	.....	.....	5	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.65	753 1	29.68	753.9	43.2	6.2	79	wnw.	12	4.5	.....	.....	10	.....	.....	blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.97	761 2	30.36	771.1	58.8	14.9	62	nw.	0.6	0.3	.....	0	10 n	.....	nw	0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	— 5	—20.6	.....	calm	0	0	.....	.....	10 ks	.....	.....	0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.04	778.2	30.09	779.5	— 4	—20.0	90	nw.	0	2.7	.....	0	0	.....	.....	0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.05	778.5	30.73	780.5	—14	—25.6	100	calm	0	0	.....	8 ck	2 8	w.	w.	0	0	fair	G. A. Blair
Cornwall	30.20	767.1	30.41	772.4	— 7.5	—21.9	100	e.	.....	.....	4	.....	10 n	.....	.....	0.03	0.8	overcast	Jas. Smith, M. A.
Dalhousie	29.66	753 4	30.71	780 0	—11.5	—24.2	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.08	779.3	30.70	779.8	— 4	—20.0	79	nw.	5	2.2	.....	.....	10 8	.....	w.	0.01	0.3	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.82	757 4	30.82	782.8	—21	—29.4	65	nw.	4	1.8	.....	.....	10 8	.....	nw.	0	0	cloudy	James Stewart.
Fredericton	30.70	779.8	30.77	781.5	— 0.9	—21.6	100	calm	0	0	.....	.....	10 8	.....	.....	0	0	overcast	Prof. Harrison, L. L. D.
Granton	30.02	762.5	30.22	767.6	17.4	— 8.1	94	ne.	2	0.9	.....	.....	10 n	.....	.....	0.400	10.2	sleeting	Jas. Grant.
Halifax, N. S*	30.59	777.0	30.74	780.8	2	—16.7	96	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. Allison.
Hamilton	29.79	756.7	30.21	767.3	18.2	— 7.7	89	ne.	.....	.....	1	10 ck	0	ne.	.....	0.30	7.6	snowing	Geo. Dickson, B. A.
Kingston, Ontario*	29.96	761.0	30.33	770.4	15	— 9.4	87	ne.	7	3.1	.....	.....	10 n	.....	.....	0.36	9.1	light snow	A. P. Knight, M. A.
Montreal, Quebec*	30.30	769.6	30.54	775.7	1	—17.2	91	n.	4	1.8	.....	.....	10 n	.....	.....	0.02	0.5	light snow	C. H. McLeod, C. E.
Ottawa	30.21	767 3	30.48	774.2	8.4	—13.1	94	ne.	.....	.....	2	.....	10 8	.....	.....	0.30	7.6	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.91	752 1	30.38	771.6	11	—11.7	80	e.	8	3.6	.....	.....	10 n	.....	e.	0.08	2.0	cloudy	Rev. R. Mosley.
Peterboro	29.50	749.3	30.32	770.1	13.7	—10.2	81	e.	.....	.....	5	.....	10 n	.....	.....	0	0	overcast	J. Dixon, B. A.
Port Dover, Ontario	29.43	747.5	30.10	766.1	26	— 3.3	100	ne.	10	4.5	.....	.....	10 n	.....	.....	1.05	26.7	light rain	H. Morgan.
Port Stanley, Ontario	29.40	748.3	30.14	765.5	29	— 1.7	88	e.	2	0.9	.....	.....	10 n	.....	e.	0.72	18.3	light rain	M. Payne.
Quebec, Quebec*	30.34	770.6	30.71	780.0	— 5	—20.6	100	calm	.....	.....	0	.....	fg.	.....	.....	0	0	foggy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.97	761.2	30.45	773.4	8	—13.3	76	ne.	10	4.5	.....	.....	10 8	.....	se.	0	0	threatening	W. H. McIntyre.
Saugeen, Ontario*	29.50	749.3	30.28	769.1	10	— 8.9	96	ne.	17	7.6	.....	.....	10 8	.....	.....	0.41	10.4	cloudy	
St. Andrews, N. B	30.55	776.0	30.61	777.5	4	—15.6	100	ne.	3	1.3	.....	.....	10 n	.....	.....	0	0	cloudy	
St. John, N. B	30.56	776.2	30.60	778.7	1.0	—17.2	71	ne.	7	3.1	.....	.....	10 8	.....	.....	0.03	0.8	overcast	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.28	769.1	10.4	—12.0	.....	nw.	.....	.....	7	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	28.85	732 8	30.24	768.1	10.0	— 8.9	91	e.	15	6.7	.....	.....	10 8	.....	.....	0.70	17.8	snowing	C. J. Macgregor, M A.
Sydney, C. B*	30.53	775 4	30.60	777.2	2	—16.7	91	nw.	14	6.3	.....	0	2 k	.....	.....	0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.83	757.7	30.25	768.3	18	— 7.8	96	ne.	25	11.2	.....	.....	10 n	.....	.....	0.90	22.9	heavy snow	Magnetic Observatory.
Windsor	30.59	777.0	30.99	779.5	4.0	—15.6	74	w.	4	1.8	.....	k	9 ks	.....	.....	0	0	overcast	Prof. W. H. Butler, M.A
Woodstock	29.11	739.4	30.29	769.4	8.4	—13.1	65	n.	10	4.5	.....	.....	10 8	.....	.....	0.9	23.	overcast	Prof. Wolverton, M. A.
Yarmouth, N. S*	30.66	778.7	30.73	780.5	10	—12.2	93	ne.	2	0.9	.....	.....	10 n	.....	.....	inap.	inap.	light snow	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Cape Colony.																			
Cape St. Francis Lt. House	29.89	759.2	29.92	760.0	70.0	21.1	83	wsw.	13.3	5.9	.....	1 k	0	.....	.....	0	0	light haze....	**John Duthie.**
Springbok Fontein	27.85	707.4	.....	.....	80	26.7	58	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**J. T. Eustace.**
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.52	622.8	.....	.....	15.1	— 9.4	.....	se.	.....	.....	1	.....	0	.....	.....	.....	.....	clear.....	
Tchang-kia-tchouang	30.08	764.0	30.19	766.8	13.8	—10.1	54	s.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	R. P. Desarmont, S. J.
Zi-Ka-Wei, near Shanghai	30.24	768.1	30.26	768.7	31.6	— 0.2	78	w.	2.2	1.0	.....	.....	0	.....	.....	0	0	clear.....	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.51	749.5	29.56	750.7	37.6	3.1	88	ssw	29	13	.....	.....	10	.....	.....	.....	.....	rain & snow	**Oversergent Fischer.**
Fanoe	29.44	747.7	29.46	748.2	38.1	3.4	95	wsw.	.....	.....	7	.....	10	.....	.....	.....	.....	raining.....	**Overloerer Lauridsen.**
Godthaab, Greenland	28.82	731.9	28.86	733.0	3.0	—16.1	100	nw.	.....	.....	6	.....	10	.....	.....	.....	.....	snowing.....	S. Kleinschmidt.
Ivigtut, Greenland	28.91	734.4	28.93	734.9	17.2	— 8.2	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	28.77	730.8	28.82	732.0	33.8	1.0	.....	se.	.....	.....	4	.....	6	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.69	754 0	29.73	755.1	25.9	— 3.4	89	e.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.69	754.1	29.72	755.0	41.0	5.0	76	ne.	25	11	.....	.....	7	.....	.....	.....	.....	.....	**Overloerer Berch.**
Vestervig	29.20	741.7	29.29	744.0	34.7	1.5	98	calm	.....	.....	0	.....	10	.....	.....	.....	.....	rain & fog...	**Loerer Oesterbol.**
Upernavik, Greenland	29.00	736.7	29.05	737.9	— 4.0	—20.0	.....	n.	.....	.....	2	.....	4	.....	.....	.....	.....	snowing.....	
French.																			
Agen, Normal School	29.47	748.6	30.15	765.7	45.3	7.4	94	ne.	.....	.....	1	0	8 n	.....	n.	0.260	6.6	very cloudy	M. Labroue, Director.
Alençon, Normal School	29.43	747.4	29.98	761.4	39.6	4.2	96	sw.	.....	.....	2	.....	8	ne.	ne.	0.150	3.8	hazy.....	M. Nicot, Director.
Arras, Engineer School	29.63	752.7	29.89	759.3	45.5	7.5	72	sw.	.....	.....	1	.....	8	.....	.....	0.004	0.1	.....	M. **Fénéon, Command't.**
Avignon, Normal School	29.99	761.8	30.07	763 8	56.5	13.6	71	s.	.....	.....	1	.....	.....	w.	sse.	0.059	1.5	.....	M. Giraud, Director.
Bar-sur-Seine	29.50	749.4	30.07	763.8	46.8	8.2	74	sw.	.....	.....	2	.....	10	.....	w.	0	0	covered	M. Sallard, Director.
Beauvais, Normal School	29.71	754.6	29.98	761.5	43.2	6.2	79	ssw.	.....	.....	1	.....	2	.....	sw.	0	0	slightly cl'dy	M. Frère Eugène Marié
Besançon, Normal School	29.21	741.9	30.16	766.0	46.4	8.0	89	sw.	.....	.....	1	.....	8	.....	w.	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	29.81	757.2	30.08	764.0	44.8	7.1	97	se.	.....	.....	1	.....	10	.....	.....	0.067	1.7	raining.....	M. Rayet, Director.
Bourges, Normal School	29.47	748.6	30.04	762.9	46.4	8	72	sw.	.....	.....	1	.....	n	.....	sw.	0	0	.....	M. Malet, Director.
Brest, Naval Observatory	29.68	753 9	29.93	760.1	45.3	7.4	88	sw.	.....	.....	2	.....	9	.....	sw.	0.110	2.8	hailing.....	M. de Kermarec, Dir.
Caen, Normal School	29.73	755.1	29.80	757.0	47.8	8.8	72	n.	.....	.....	2	.....	0	.....	.....	0.031	0.8	clear.....	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.69	754.0	30.01	762.3	46.9	8.3	77	s.	.....	.....	2	.....	8	s.	sw.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.49	749.1	30.01	762.3	45.3	7.4	77	w.	.....	.....	1	.....	10	.....	.....	0.020	0.5	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.71	729.1	30.10	764.6	42.1	5.6	88	s.	.....	.....	1	.....	10	.....	.....	.....	.....	light rain....	M. Allnard, Director.
Cluny, Normal School	29.24	742.8	30.11	764.8	42.8	6	91	w.	.....	.....	1	.....	9	.....	w.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.21	741.8	30.08	764.0	45.5	7.5	75	w.	.....	.....	1	.....	5 n	w.	w.	0.035	0.9	cloudy.....	Dr. Coulet, Director.
Gap, Normal School	27.49	698.2	30.09	764.2	42.8	6	88	calm	.....	.....	0	.....	7 n	.....	.....	0	0	.....	M. Jeangirard, Director.
Grénasque, du Rhone	29.02	737.1	30.16	766.0	54.1	12.3	74	se.	.....	.....	3	.....	9	.....	se	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.31	744.5	30.10	764.6	46.4	8	67	nne.	.....	.....	1	ck	0	s.	.....	0	0	.....	M. Ablard, Director.
Guéret	28.38	720 8	30.00	761.9	40.3	4.6	77	se.	.....	.....	1	.....	10	.....	nne.	0.138	3.5	light rain....	**M. Delorme, Dir.**
Lamballe, Normal School	29.71	754.6	29.98	761.5	44.6	7	74	sw.	.....	.....	1	.....	5	.....	sw.	0	0	cloudy.....	M. Ollitrault, Director.
Lescar, Normal School	29.48	748.7	30.05	763.2	48.9	9.4	76	n.	.....	.....	1	.....	2	.....	.....	0.228	5.8	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.87	758.6	29.97	761.2	44.2	6.8	79	wsw.	.....	.....	1	.....	10	calm	w.	0.055	1.4	raining.....	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.00	736.7	30.07	763.8	50.4	10.2	72	ssw.	.....	.....	1	.....	10 n	.....	ssw.	.....	.....	sprinkling...	M. André, Director.
Mans, Normal School	29.71	754.6	30.02	762.6	44.1	6.7	95	ssw.	.....	.....	5	.....	5	.....	ssw.	0.08	2.	cloudy.....	M. Piboën, Director.
Marseille, Observatory	29.85	758 2	30.12	765.1	57.9	14.4	78	se.	.....	.....	1.2	.....	10	.....	se.	inap.	inap.	.....	M. Stephan, Director.
Montlouis	24.77	629.1	29.61	752.1	42.8	6.0	69	sw.	22.4	10.0	.....	.....	0	.....	.....	0	0	.....	**M. Caré for Dr. Fines.**
Montpellier, Normal School	29.93	760.3	30.06	763.6	52.9	11.6	98	ene.	.....	.....	2	.....	5	.....	se.	0	0	cloudy.....	M. Galzin, Director.
Nancy, Normal School	29.24	742 6	30.03	762.7	46.8	8.2	70	ssw.	.....	.....	1	.....	kn	.....	w.	0	0	.....	M. Hasse, Director.
Nantes, Observatory	29.80	758.4	30.02	762.5	52.7	11.5	50	sw.	.....	.....	0–1	c	5 k; kn	ssw.	sw.	0.102	2.6	.....	M. Larocque, Director.
Perpignan, Observatory	29.95	760.6	30.06	763.5	54.5	12.5	75	s.	1.8	0.8	.....	.....	4	.....	sw.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.07	535.1	.....	.....	25.2	— 3.8	.....	sw.	.....	.....	2	.....	5	.....	sw.	0.035	0.9	cloudy.....	**M. Vaussenat, Director.**
Privas, Normal School	28.96	735.5	30.04	763.0	48.9	9.4	84	s.	.....	.....	4	.....	10	se	se.	0.106	2.7	covered	M. Taillen.
Puy de Dôme Obs'y, Summit	25.11	637.7	.....	.....	30.2	— 1.0	100	wsw.	.....	.....	2	.....	10	.....	.....	0.008	0.2	snow & fog..	M. Allnard, Director.
Rochefort, Naval Obs'y	30.01	762.2	30.04	763.0	48.2	9.0	86	s.	.....	.....	1	.....	8	.....	s.	0.08	2.	¾ covered..	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.80	756.9	30.02	762.5	48.2	9	71	sw.	.....	.....	1	.....	5	.....	sw.	0.059	1.5	cloudy.....	M. Brotier, Director.
Rodez, Normal School	27.87	707.8	30.05	763.3	43.5	6.4	97	se.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Seger, Director.
Rouen, Normal School	29.84	757.9	29.89	759.1	48.2	9	61	wsw.	.....	.....	2	.....	5	sw.	.....	0	0	cloudy.....	M. Moullot.
Saint Lô	.....	.....	.....	.....	46.4	8	67	w.	.....	.....	0.5	.....	5	.....	sw.	0.012	0.3	cloudy..	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.85	758.3	30.02	762.5	45.5	7.5	76	ssw.	.....	.....	1	.....	8	sw.	.....	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.37	745.9	30.09	764.3	45.3	7.4	100	se.	.....	.....	1	.....	10	se.	.....	0	0	covered.....	M. Baillaud, Director.
Tours	29.85	758.1	30.02	762.6	46.4	8.0	86	s.	.....	.....	1	.....	10	sw.	ssw.	0.110	2.8	covered.....	M. de Tastes.
Versailles, Observatory	29.52	749.7	30.01	762.2	45.0	7.2	77	sw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.93	760.2	30.08	764.0	45.5	7.5	97	ne.	5.8	2.6	.....	.....	10 n	.....	.....	0.169	4.3	light rain....	**M. Cartier, Director.**
German.																			
Ansbach	28.63	727.1	30.11	764.7	45.0	7.2	76	sw.	.....	.....	2	.....	5	sw.	.....	0	0	.....	**Prof. Juedt.**
Bamberg	29.18	741.2	30.02	762.6	46.8	8.2	63	se.	.....	.....	2	.....	3	.....	.....	0	0	.....	**Prof. Dr. Hoh.**
Berlin	29.78	756.5	29.93	760.2	47.1	8.4	62	sw.	.....	.....	3	.....	2	.....	.....	0	0	.....	**Meteorological Institute.**
Breslau	29.55	750.5	30.08	764.0	46.0	7.8	72	sse.	.....	.....	2	.....	5	sw.	.....	0	0	.....	Royal University Obs'y
Carlsruhe	29.64	752.9	30.11	764.7	50.7	10.4	56	sw.	.....	.....	4	.....	3	sw.	.....	0.098	2.5	.....	Albert Senz.
Cassel	29.24	742.6	29.95	760.7	45.1	7.3	57	s.	.....	.....	6	.....	6	s.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.67	753.5	30.04	763.0	48.7	9.3	58	sw.	.....	.....	2	.....	7	.....	.....	0.004	0.1	.....	**Physical Society.**
Friedrichshafen	28.65	727.6	30.12	765.0	43.2	6.2	75	w.	.....	.....	2	.....	8	sw.	.....	0.209	5.3	.....	Wilhelm, Chief Tel.
Hamburg	29.67	753.7	29.76	756.0	42.4	5.8	70	sw.	.....	.....	8	.....	8	.....	.....	0	c	.....	E. Preller.
Kiel	29.64	752.9	29.66	753.3	42.1	5.6	76	sw.	.....	.....	6	.....	10	.....	.....	0.118	3.0	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.58	751.2	30.00	762.0	47.3	8.5	58	sw.	.....	.....	5	.....	4	sw.	.....	0.067	1.7	.....	H. Leppig, Asst.
Magdeburg	29.72	755.0	29.91	759.8	47.8	8.8	58	s.	.....	.....	3	.....	0	.....	.....	inap.	inap.	.....	**Dr. Assmann.**
Memel	29.88	758.9	29.93	760.1	36.5	2.5	87	sw.	.....	.....	3	.....	9 s	.....	.....	.....	.....	.....	Issermann.
Munich	28.28	718.3	30.15	765.8	45.0	7.2	66	calm	...	...	0	.....	5	w.	.....	0	0	.....	**Central Station.**
Neufahrwasser	29.90	759.4	29.93	760.3	43.2	6.2	78	sw.	.....	.....	1	.....	1	.....	.....	0	0	.....	**A. Lothes.**
Neustadt, Palatinate	29.50	749.3	30.03	762.7	49.5	9.7	57	w.	.....	.....	4	.....	4	s.	.....	0	0	.....	Dicknether.
Stuttgart	29.09	738.9	30.00	761 9	49.1	9.5	65	w.	.....	.....	1	.....	6	w.	.....	0.346	8.8	raining.....	**Prof. Dr. Schoder.**
Wustrow	29.70	754.4	29.73	755 1	42.1	5.6	62	ssw.	.....	.....	5	.....	10 s	.....	.....	0	0	.....	Profs. Brandes & **Reimer.**
Greek.																			
Athens	29.88	758.9	30.26	768.7	57.7	14.3	.....	e.	.....	.....	0.5	0	5 k	.....	.....	inap.	inap.	.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.97	761.2	30.02	762 5	76.6	24.8	38	nne.	5.0	2.2	.....	.....	3	.....	.....	0	0	d. clouds..	
Deesa	29.45	748.1	29.93	760.2	78.6	25.9	18	nnw	9.0	4.0	.....	.....	0	.....	.....	0	0	blue sky.....	
Bombay	29.81	757.3	29.85	758.2	78.7	25.9	70	nw.	20.0	8.9	.....	.....	0	.....	.....	0	0	blue sky.....	
Poona, Yarrowda	27.99	710.9	29.82	757.4	85.7	29.8	23	e.	4.0	1.8	.....	.....	3	w.	.....	0	0	d. clouds....	
Belgaum	27.30	693.4	29.82	757.5	78.7	25.9	36	e.	4.0	1.8	.....	.....	9	se.	se.	0	0	d. clouds....	
Lahore	29.29	743.9	30.07	763.7	59.1	15.1	41	nw.	4.0	1.8	.....	.....	3	.....	.....	0	0	d. clouds....	
Roorkee	29.05	737.9	29.99	761.8	58.8	14.9	75	w.	3.0	1.3	.....	.....	0	.....	.....	0	0	.....	
Agra	29.44	747.7	30.03	762.7	64.3	17.9	44	w.	.....	.....	.....	.....	0	.....	.....	0	0	.....	
Nagpur	28.88	733.5	29.92	760.0	79.5	26.4	26	calm	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky.....	
Jubbulpore	28.62	726.8	30.00	762.1	69.7	20.9	28	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky.....	
Lucknow	29.62	752 3	30.02	762.4	58.3	14.6	67	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky.....	
Allahabad	29.68	753.9	30.01	762.2	58.5	14.7	70	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky.....	
Patna	29.78	756.4	29.98	761.4	59.6	15.3	62	w.	3.5	1.6	.....	.....	0	.....	.....	0	0	blue sky.....	
Hazaribagh	27.91	708.9	30.01	762.2	57.5	14.2	42	nw.	6.4	2.9	.....	.....	0	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.87	758.7	29.95	760.8	72.8	22.7	54	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	29.95	760.7	29.97	761.3	64.1	17.8	53	nnw.	3.0	1.3			0			0	0	blue sky	
Dhubri	29.80	757.0	29.93	760.2	64.4	18.0	60	calm	1.2	0.5			0			0	0	blue sky	
Chittagong	29.84	758.0	29.94	760.4	65.5	18.6	56	nw.	3.4	1.5			0			0	0	blue sky	
Sibsagar	29.62	752.3	29.97	761.3	57.1	13.9	84	ne.	2.0	0.9			2			0	0	blue sky	
Jeypore	28.53	724.7	30.02	762.5	65.6	18.7	34	nnw.	3.6	1.6			0			0	0	blue sky	
Bellary	28.38	720.8			82.6	28.1	42	se.	6	2.7			8			0	0	gloomy	
Trichinopoly	29.59	751.6			80.5	26.9	67	ne.	1.	0.4			0			0	0	overcast	
ITALIAN.																			
Udine	29.85	758.3	30.28	769.0	49.1	9.5	88	se.	0.7	0.3			10			0	0		Prof. Giovanni Clodig.
Milan	29.74	755.4	30.28	769.0	44.6	7.0	94	wsw.	2.5	1.1			10			0.154	3.9		Prof. Schiapparelli.
Padua	30.15	765.7	30.26	768.6	47.1	8.4	93	n.	1.8	0.8			10	W.		0	0		Prof. Dott. Lorenzoni.
Monealieri	29.32	744.8	30.27	768.8	40.6	4.8	76	se.	0.7	0.3			7			0	0		Prof. F. F. Denza.
Genoa	30.04	762.9	30.23	767.9	51.1	10.6	96	calm	0	0			10	se.		0.701	17.8		Prof. G. M. Garibaldi.
Mondovi	28.29	718.5	30.28	769.0	43.0	6.1	60	w.			2		2			0	0		Prof. D. C. Bruno.
Pesaro	30.26	768.5	30.31	769.8	56.1	13.4	66	sw.	3.8	1.7			8			0	0		Prof. Luigi Guidi.
Florence	30.02	762.4	30.28	769.0	48.2	9.0	81	sw.			2		10	sw.		0	0		Prof. Costantino Pittei.
Leghorn	30.12	765.1	30.21	767.3	49.3	9.6	92	ne.	4.3	1.9			10	sw.		0	0		Prof. P. Monte.
Rome	30.11	764.9	30.29	769.4	55.8	13.2	66	sw.	0	0			6			0	0		Prof. P. Tachini.
Lecce	30.04	763.1	30.30	769.7	55.4	13.0	80	nnw.	3.8	1.7			1			0	0		Prof. C. de Giorgi.
Cosenza	29.37	746.1	30.28	769.1	56.1	13.4	77	wsw.	3.1	1.4			0			0	0		Prof. D. Conti.
Cagliari	29.98	761.5	30.18	766.5	59.5	15.3	64	ese.			4		1			0	0		Prof. A. Pacinotti.
Palermo	30.04	762.9	30.29	769.3	56.3	13.5	66	ne.	3.1	1.4			0			0	0		Prof. G. Cacciatore.
Syracuse	30.22	767.6	30.26	768.7	57.2	14.0	76	ese.	4.3	1.9			3	sse.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.78	756.3	30.31	769.8	56.5	13.6	71	sw.	0.7	0.3			9	w.		0	0		Prof. F. Brioschi.
Stelvio	22.13	562.2			24.3	— 4.3	95	w.			6		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.18	563.3			21.0	— 6.1	68	w.			2		8			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.02	762.5	30.05	763.3	17.0	— 8.3	100	calm			0	0	0			0	0	clear	H. Hattori.
Awomori	30.01	762.2	30.05	763.3	14.6	— 9.7	68	w.	3.7	1.7		0	1 s			0.008	0.2	clear	K. Ogawa.
Hakodate	30.02	762.5	30.03	762.8	22.0	— 5.6	92	nw.	6.0	2.7		0	5			0	0	fair	
Hamamatsu	29.93	760.2	29.96	760.9	36.2	2.3	69	calm			0	0	0			0	0	clear	
Kagoshima	30.06	763.6	30.07	763.9	35.8	2.1	74	calm			0	0	2 s			0	0	clear	G. Miyanohasa.
Kioto	29.81	757.3	30.00	762.0	31.7	— 0.2	88	nw.	2.6	1.2		0	3 s;ck			0	0	clear	M. Tojima.
Kochi	29.98	761.5	30.01	762.2	38.4	3.6	59	wnw.	11.0	4.9		0	0			0	0	clear	K. Kusunose.
Miasaka	30.03	762.8	30.06	763.5	38.1	3.4	68	calm			0	0	6 s		w.	0	0	fair	K. Masusaki.
Nagasaki, I. M. Obs'y	29.88	759.0	30.09	764.4	34.7	1.5	86	calm	0	0			9 s;n			0.050	1.3	light snow	S. Takehayashi.
Niigata	29.94	760.5	29.97	761.2	27.4	— 2.6	80	se.	0.5	0.2		0	0			0.205	5.2	clear	M. Morita.
Nobiru	30.02	762.5	30.03	762.9	27.2	— 2.7	84	nnw.	4.8	2.1		0	0			0	0	clear	H. Midzushima.
Numazu	29.93	760.2	29.97	761.2	38.1	3.4	67	nne.			4		9 ks			0	0	cloudy	R. Kaneda.
Osaka	30.03	762.9	30.05	763.3	35.3	1.8	78	e.	4.0	1.8		9 cs	0			0	0	cloudy	H. Omura.
Sakai	30.01	762.2	30.02	762.5	33.2	0.7	94	w.			2	0	8 ks		w.	0.244	6.2	cloudy	K. Yamawchi.
Supporo					8.2	—13.2	88	calm	0	0			2			0	0	clear	
Tokei Obs'y, Yeddo	29.91	759.7	29.99	761.8	32.5	0.3	87	ne.	3.3	1.4		0	0			0	0	clear	The Staff.
Wakayama	29.94	760.4	29.99	761.8	37.2	2.9	70	n.	3.0	1.3		4 ck	6 ck			0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.04	752 8	29.82	757.4	80.1	26.7	69	ene.	10.5	4.7		1 cs;c	5 ks;n		var.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Altata					48	8.9	100	nw.										dense fog	H. Diaz Pena.
Guamajuato	23.08	601.4	29.90	759.4	52.7	11.5	88	calm	0	0		0	0			0	0	foggy	Prof. Vicente Fernandez.
Leon	24.32	617.7	30.11	764.8	48.6	9.2	81	nw.			1	8 c	0			0	0	cloudy	Prof. M. Leal.
Mazatlan	29.73	755.2	30.00	761.9	63.0	17.2	78	nw.	1.6	0.8		1 cs	0			0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.10	586.8	30.25	768.4	47.7	8.7	72	calm	0	0		0	0			0	0	fine	The Staff.
Morelia	24.31	617.5	30.22	767.5	49.5	9.7	68	s.			2	1 c	0	se.		0	0	clear	M. Tena, M. D.
Pabellon	23.94	608.2	30.04	763.0	40.0?	10.0?	73	calm	0	0		9 c	1 s	s.	s.	0	0	covered	
Puebla, Catholic Institute	23.41	594.6	30.30	769.5	45.5	7.5	42	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
Zacatecas	22.56	573.0	30.30	769.6	48.2	9.0	64	wsw.	7.6	3.4		0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.86	758.5	29.86	758.5	44 2	6.8		ssw.			5					0.079	2.0		
Groningen	29.08	753.9	29.74	755.3	42.4	5.8		sw.			5					0.146	3.7		
Helder																0.043	1.1		
Hellevoetsluis	29.82	757.5	29.82	757.5	43.7	6.5	77	sw.			3					0.114	2.9		
Utrecht	29.81	757.1	29.85	758.3	45.5	7.5	71	ssw.			5		2			0	0	lightly cl'dy	H. van der Brink
Sub-series.																			
Batavia, Java	29.79	756.6			77.9	25.5	91	nnw.	0	0			10			0.28	7.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.36	745.8	29.43	747.4	39.9	4.4	68	calm	0	0			9			0	0		
Brono	29.76	755.9	29.80	756.9	26.6	— 3.0	57	calm			0		1			0	0		
Christiania	29.38	746.2	29.53	750.0	33.8	1.0	85	nne.	7	3			10			0.067	1.7		
Gjesvær	29.78	756.5	29.81	757.1	30.6	— 0.8		n.			6		10					snowing	
Lodingen	29.84	757.8	29.88	759.0	31.8	— 0.1	78	calm			0		6			0	0		
PORTUGUESE.																			
Angra, Azores	30.08	763.9	30.23	767.9	57.9	14.4	86	w.	13.6	6.1			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.01	736.9	30.02	762.6	51.8	11.0	85	ne.	3.8	1.7			8			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.11	764.8	30.20	767.1	58.3	14.6	45	sw.	1.3	0.6			7			0.327	8.3		Capt. D. A. de Ounha.
Lisbon, Observatory	29.75	755.6	30.12	765.0	52.2	11.2	61	nne	19.2	8.6			1			0.012	0.3		The Staff.
Ponta Delgada, Azores	30.24	768.0	30.31	769.8	57.2	14.0	58	w.	6.9	3.1			3			0	0		
Saint Paul de Loando	29.69	754.0	29.89	759.1	80.6	27.0	88	wnw.	1.8	0.8			10			0	0		
Serra da Estrella	25 22	640.0	30.14	765.5	30.6	— 0.8	100	nw.	4.3	1.9			5			3.382	85.9	foggy	
RUSSIAN.																			
Akmolinski	29.04	737.6	30.26	768.5	— 2.4	—19.1	81	s.	2	1		7 cs	0			0	0		Major K. Lusarew.
Archangel	29.97	761.3	29.99	761.8	16.9	— 8.4	88	ssw.	13	6			10			0.197	5.0	snowing	Capt. Sselliwerstow.
Ashurada	30.58	770.8	30.49	774.4	44.6	7.0	71	nw.	9	4		ck	5 n			0.004	0.1		
Astrakhan	30.63	778.0	30.55	775.9	25.9	— 3.4	54	n	2	1			0			0	0		Capt. Wisganow.
Baku	30.55	775.9	30.50	774.7	37.0	3.1	83	sse.	4	2		0	0			0	0		
Barnaul	29.70	754.4	30.20	768.6	1.4	—17.0	79	sw.	4	2			10			0.024	0.6		Meteorological Obs'y.
Bielosersk	29.78	756.3	30.28	769.0	23.4	— 4.8	98	sse.	16	7			10 s			0.008	0.2		
Dorpat	29.70	754.4	29.95	760.8	34.9	1.6	96	s.	9	4			10 n			0.047	1.2		Observatory.
Ekaterinburg	29.27	743.4	30.32	770.2	10.9	—11.7	92	w.	9	4		3 cs	0			0	0		Meteorological Obs'y.
Elisawetgrad	30.00	762.1	30.49	774.4	21.9	— 5.6	90	se.	7	3			10 n			0	0		
Irkutsk	28.35	720.1	30.11	764.9	14.5	— 9.7	98	calm			0		8			0.043	1.1		
Kasalinsk	29.94	760.4	30.11	764.9	8.2	—13.2	70	ne.	9	4		0	0						
Kasan	30.26	768.6	30.55	770.0	24.3	— 4.3	70	wsw.	9	4			10			blank	blank		Observatory.
Kem	29.91	759.6	29.90	760.9	18.0	— 7.8	94	sw.	9	4			10			0.075	1.9	heavy cl'ds	
Kertch	30.37	771.4	30.39	771.9	25.5	— 3.6	98	calm	0	0			10 n			0	0		Lagorio & Sastyres.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Kieff	29.68	753 8	30.36	771.1	25.7	— 3.5	93	se.	16	7	.....	.....	10ks;n	.....	.....	0	0	.....	Observatory.
Koslov	30.00	762.1	30.58	776.6	21.2	— 6.0	95	s.	9	4	.....	.....	10 s	.....	.....	0	0	.....	
Libau	29.84	757.8	29.86	758.4	34.5	1.4	89	s.	16	7	.....	.....	4	.....	.....	0	0	.....	E. Quaas.
Lugan	30.28	769.1	30.49	774.4	8.2	—13.2	76	ese.	9	4	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.88	759.0	30.40	772.2	21.9	— 5.6	95	s.	12.3	5.5	.....	.....	10 n	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	30.39	771.9	30.47	773.8	36.1	2.3	87	calm	0	0	.....	.....	10 n	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.94	760.5	30.03	762.7	—22.4	—30.2	62	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Iwanow.
Pekin, China	30.02	762.4	30.17	766.2	22.5	— 5.3	42	nw.	4	2	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	30.12	765.1	30.51	775.0	16.2	— 8.8	68	w.	1.1	0.5	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	29.84	757.8	30.04	763 0	27.9	— 2.3	92	sw.	11	5	.....	.....	10	.....	.....	0.063	1.6	.....	Dr. Bergmann.
Pinsk	29.66	753.4	30.18	766 5	37.4	3.0	87	s.	11	5	.....	.....	10 s	.....	.....	0	0	.....	
Pott	30.26	768.6	30.28	769.1	53.6	12.0	56	e.	4	2	.....	0	0	.....	.....	0	0	.....	
St. Petersburg	30.01	762.3	30 03	762.7	29.7	— 1.3	92	sse.	11	5	.....	.....	10 n	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.76	705.0	30.41	772.5	22.5	— 5.3	60	calm	0	0	.....	4 c	0	.....	.....	.....	.....	.....	
Semipalatinsk	29.63	752.7	30.37	771.5	— 5.4	—20.8	79	e.	11	5	.....	.....	9	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	30.14	765.5	30.38	771.6	33.4	0.8	85	nnw.	16	7	.....	.....	10 n	.....	.....	0	0	.....	
Staroi Bykhov	29.82	757.4	30.31	769.9	25.7	— 3.5	95	se.	16	7	.....	.....	10	.....	.....	0.020	0.5	.....	
Tashkend	28.67	728.3	30.52	775.1	23.2	— 4.9	70	calm	0	0	.....	.....	10 k	.....	.....	0	0	.....	Terch, A. M.
Tiflis	29.00	736.6	30.50	774.7	34.2	1.2	80	se.	4	2	.....	.....	10	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.60	701.1	30.37	771.5	5.5	—14.7	75	calm	0	0	.....	0	5 k	.....	.....	.....	.....	.....	
Viatka	29.76	756.0	30.45	773.4	16.9	— 8.4	.....	w.	4	2	.....	.....	10	.....	.....	0	0	.....	
Vladivostock	29.98	761.5	30.05	763.2	—10.5	—23.6	60	calm	0	0	.....	.....	5 k	.....	.....	0	0	.....	
Warsaw	29.65	753.1	30.09	764.2	39.6	4.2	79	wsw.	7	3	.....	.....	10	.....	.....	0	0	heavy clouds	Astronomical Obs'y.
Wilna	29.63	752.5	30.06	763.6	35.2	1.8	95	s.	4	2	.....	.....	10	.....	.....	0	0	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.82	757.5	30.14	765.6	4.8	—15.1	87	w.	2	1	.....	.....	8	.....	.....	blank	blank	.....	M. O. Marks.
Scottish.																			
Monach Lt	.....	.....	29.45	748.0	42	5.6	91	ne.	.....	.....	4	.....	10	.....	.....	0	0	hazy.	J. Youngclause
North Unst	.....	.....	29.58	751.3	.....	.....	.....	ne.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.90	759.5	30.01	762.2	55.4	13.0	84	e.	1.6	0.7	.....	0	7	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.06	763.5	30.12	765.0	48.2	9.0	94	ne.	0.9	0.4	.....	.....	10	.....	.....	0.177	4.5	covered.....	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.08	687.8	30.13	765.4	39.2	4.0	87	sw.	4.3	1.9	.....	.....	10	.....	.....	0	0	covered.....	Domingo Martin.
Madrid, Royal Obs'y	27.78	705.5	30.04	763.1	48.4	9.1	81	ne.	2.2	1.0	.....	.....	10	.....	.....	0.122	3.1	covered.....	The Staff.
Murcia, Met. Obs'y	29.88	758.9	30.01	762.2	60.6	15.9	72	wnw.	2.0	0.9	.....	0	6	.....	.....	0	0	clouds.....	Olayo Diaz, Director.
Oviedo	29.21	741.8	30.08	764.1	37.4	3.0	85	n.	3.1	1.4	.....	3 k	4 n	s.	s.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.16	740.7	30.08	763.9	45.9	7.7	87	calm	0	0	.....	.....	1	.....	.....	0.012	0.3	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.85	758.2	29.91	759.6	76.5	24.7	77	e.	9.5	4.2	.....	.....	k	.....	.....	0	0	clear.....	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.89	759.2	29.99	761.7	61.5	16.4	69	se.	8.9	4.0	.....	0	7	.....	sse.	0	0	....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.08	763.9	30.17	766.2	77.0	25.0	76	ne.	20.4	9.1	.....	2 k	4 ku	ne.	ne.	0.165	4.2	cloudy.....	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	29.91	759.7	29.95	760.7	18.0	— 7.8	100	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Umea	29.82	757.4	29.87	758.7	24.8	— 4.0	91	nne.	.....	.....	4	.....	10	.....	.....	0.094	2.4	.....	
Hernosand	29.72	754.9	29.77	756.2	27.0	— 2.8	96	s.	.....	.....	6	.....	10	.....	.....	0.122	3.1	.....	
Stockholm	29.48	748.9	29.66	753.4	34.5	1.4	93	s.	.....	.....	2	.....	10	.....	.....	0.083	2.1	foggy	
Wisby	29.64	752.9	29.70	754.4	38.8	3.8	83	ssw.	.....	.....	2	.....	3	.....	.....	0.043	1.1	.....	
Sub-series.																			
Upsala	29.54	750.3	29.63	752.5	33.1	0.6	100	ese.	7.4	3.3	.....	.....	10	.....	.....	0.181	4.6	snowing.....	S. G. Fineman.
Swiss.																			
Geneva	28.66	728.0	30.12	765.0	45.0	7.2	78	n.	.....	.....	2	.....	9	.....	.....	0.012	0.3	covered	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.30	769.6	47.8	8.8	70	nne.	13	6.0	.....	.....	3	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	30.31	769.8	56.8	13.8	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.01	762.2	63.0	17.2	65	ne.	.....	.....	1	c	9 s	.....	w.	0	0	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred L. Kingsbury.
United States.																			
Albany, New York	30.36	771.1	30.45	773.4	28	— 2.2	84	s.	6	2.7	.....	.....	10 n	.....	.....	0.19	4.8	heavy snow	J. C. Barnes.
Alpena, Michigan	29.64	752.8	30.35	770.9	14	—10.0	80	e.	12	5.4	.....	.....	10 n	.....	.....	0.15	3.8	light snow...	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.78	629.4	29.88	758.9	34	1.1	81	ne.	3	1.3	.....	0	4 s	.....	w.	0.03	0.8	fair.....	W. C. Burnes.
Assinnaboine, Ft., Montana	27.57	700.3	30.61	777.5	—38	—38.9	28	calm	0	0	.....	0	fg.	.....	.....	0	0	clear.....	B. O. Lenoir.
Atlanta, Georgia	29.21	741.9	30.43	772.9	43.0	6.1	96	e.	5	2.2	.....	.....	ton;fg	.....	.....	0.02	0.5	light rain.....	H. C. Smyth.
Atlantic City, New Jersey	30.42	772.7	30.43	772.9	40	4.4	89	s.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.28	769.1	30.48	774.2	49	9.4	89	nw.	4	1.8	.....	.....	10 s	.....	se.	0.12	3.0	cloudy.....	John Healy.
Baltimore, Maryland	30.41	772.4	30.46	773.7	37	2.8	82	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	Geo W Felger.
Barnegat, New Jersey	30.42	772.7	30.44	773.2	40.0	4.4	89	s.	7	3.1	.....	.....	10 s	.....	w.	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	30.10	764.5	30.12	765.0	18.0	— 7.8	.....	e.	5	2.2	.....	0	4 s	.....	.....	Inap.	Inap.	fair.....	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.99	736.3	30.72	780.3	—25	—31.7	100	nw.	2	0.9	.....	0	4 s	.....	nw.	0.05	1.3	fair.....	A. Pritchard.
Benton, Fort, Montana	27.62	701.5	30.62	777.7	—40	—40.0	100	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	S. Wheaton.
Billings, Montana	27.09	688.1	.....	.....	—36	—37.8	.....	w.	1	0.4	.....	0	0	.....	.....	0.04	1.0	clear.....	T. Gibson.
Bismarck, Dakota	28.69	728.7	30.67	778.7	—27	—32.8	100	n.	5	2.2	.....	0	0	.....	.....	0.03	0.8	clear.....	Cyrus Cramer.
Block Island, Rhode Island	30.52	775.2	30.55	776.0	33	0.6	88	se.	12	5.4	.....	.....	10 n	.....	se.	Inap.	Inap.	light rain....	J. T. Elker.
Boise City, Idaho	27.28	692.9	30.24	768.1	— 9	—22.8	91	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	B. E. Light.
Boston, Massachusetts	30.44	773.2	30.60	777.2	24.0	— 4.4	88	se.	7	3.1	.....	.....	10 n	.....	.....	0.08	2.0	light snow..	O. B. Cole.
Brownsville, Texas	29.86	758.4	29.91	759.7	71.0	21.7	90	s.	20	8.9	.....	.....	9 s	.....	s.	0.02	0.5	cloudy	M. McCarty.
Buffalo, New York	29.36	745.7	30.16	766.1	30	— 1.1	94	ne.	12	5.4	.....	.....	10 n	.....	.....	0.82	20.8	light rain....	W. Finn.
Buford, Fort, Dakota	28.56	725.4	30.74	780.8	—24	—31.1	100	nw.	1	0.4	.....	0	0	.....	.....	0.02	0.5	clear.....	F. A. Mellen.
Burlington, Vermont	30.17	766.3	30.48	774.2	15.6	— 9.1	84	calm	0	0	.....	.....	10 n	.....	w.	0.10	2.5	light snow.	D. N. Farnell.
Cairo, Illinois	29.60	751.8	30.02	762.5	63.6	17.6	86	s.	26	11.6	.....	.....	10 s	.....	s.	0	0	threatening.	W. H. Ray.
Cape Henry, Virginia	30.50	774 7	30.52	775.2	41	5.0	92	w.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy.....	A. K. Alderson.
Cape May, New Jersey	30.42	772.7	30.45	773.4	39.0	3.9	89	sw.	7	3.1	.....	5 ck	2 s	w.	sw.	0	0	fair.....	W. E. Smith.
Cedar Keys, Florida	30.31	769.9	30.33	770.4	65	18.3	90	e.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	J. J. McLean.
Champaign, Illinois	29.12	739.6	29.99	761.7	35.0	1.7	79	e.	10	4.5	.....	.....	10 n	.....	e.	0.09	2.3	clear.....	F. W. Mixer.
Charleston, S. Carolina	30.39	771.9	30.45	773.4	58	14.4	93	ne.	5	2.2	.....	.....	10s;fg	.....	sw.	1.62	41.1	light rain....	L. A. Welsh.
Charlotte, N. Carolina	29.60	751.8	30.48	774.2	42.0	5.6	92	ne.	4	1.8	.....	.....	10 s	.....	ne.	0	0	threatening.	J. H. Smith.
Chattanooga, Tennessee	29.54	750.3	30.40	772.1	51.0	10.6	93	se.	11	4.9	.....	.....	10 ks;fg	.....	s.	0.02	0.5	cloudy.....	D. O'Donoghue.
Cheyenne, Wyoming	23.88	606.5	30.13	765.3	23.8	— 4.6	.....	n.	1	0.4	.....	0	0	.....	.....	0	0	cloudy	B. L. Goulding.
Chicago, Illinois	29.33	745.0	30.08	764.0	21.4	— 5.9	90	ne.	19	8.5	.....	.....	10 n	.....	.....	0.04	1.0	clear.....	E. McGovern.
Chincoteague, Virginia	30.46	773.7	30.48	774.2	44	6.7	93	s.	10	4.5	.....	.....	9 ks	.....	w.	0.80	20.3	sleeting.....	J. Mitchell.
Cincinnati, Ohio	29.41	747.0	30.10	764.5	56	13.3	86	s.	11	4.9	.....	.....	10 s	.....	s.	0.01	0.3	cloudy	C. F. Dickens.
Cleveland, Ohio	29.33	745.0	30.12	765.0	37.2	2.9	94	s.	7	3.1	.....	.....	10 n	.....	.....	2.13	54.1	heavy rain.	R. B. Watkins.
Coleman City, Texas	28 29	718.6	30.17	766.3	10	—12.2	100	n.	32	14.3	.....	.....	10 n	.....	n	0.02	0.5	light snow..	J. B. Newlin.
Columbus, Ohio	29.20	741.7	30.10	764.5	52	11.1	100	s.	12	5.4	.....	.....	10 s	.....	sw.	0.03	0.8	cloudy	L. Dorman.
Concho, Fort, Texas	28.16	715.3	30.18	766.6	14.0	—10.0	83	n.	18	8.0	.....	.....	10 s	.....	.....	0	0	cloudy..	D. Cuthbertson.
Davenport, Iowa	29.47	748.5	30.17	766.3	10	—12.2	80	ne.	20	8.9	.....	.....	10 n	.....	.....	0.12	3.0	light sleet...	J. McGlone.
Davis, Fort, Texas	25.04	636.0	30.00	762.0	48	8.9	68	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	R. R. Martin.
Dayton, Washington T'y	28.66	728.0	30.48	774.2	—23	—30.6	68	n.	7	3.1	.....	0	0.	.....	.....	0	0	clear.....	J. Williams.
																			D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.41	645.4	30.33	770.4	—32	—35.6	100	calm	0	0		0	0			0.04	1.0	clear	F. Willson.
Delaware Breakwater, Del.	30.44	773.2	30.46	773.7	38	3.3	89	sw.	8	3.6			10 s		sw.	0	0	cloudy	T. S. Townsend.
Denison, Texas	29.37	746.0	30.21	767.3	13.0	—10.6	100	n.	10	4.5			10 n			0.26	6.6	light snow	J. W. Byram.
Denver, Colorado	24.69	627.1	30.21	767.3	—16.0	—26.7	52	ne.	1	0.4		0	0			0.02	0.5	clear	F. M. Neal.
Des Moines, Iowa	29.35	745.5	30.32	770.1	3	—16.1	72	ne.	11	4.9			10 n		ne.	0.14	3.6	light snow	F. W. Conrad.
Detroit, Michigan	29.42	747.3	30.17	766.3	23.0	— 5.0	92	n.	13	5.8			10 n			0.90	22.9	sleeting	E. R. Brace.
Dodge City, Kansas	27.65	702.3	30.39	771.9	—10	—23.3	100	nw.	22	9.8			10 s			inap.	inap.	cloudy	V. P. Temple.
Dubuque, Iowa	29.50	749.3	30.26	768.6	8	—13.3	76	n.	7	3.1			10 n			0.46	11.7	light snow	J. Harvey Smith.
Duluth, Minnesota	29.77	756.1	30.58	776.7	— 8	—22.2	100	n.	8	3.6			10 s		n.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.05	737.9	29.89	759.2	64.1	17.8	90	se.	5	2.2		3 cs	0	sw.		0	0	clear	F. Belford.
Eagle Rock, Idaho	25.27	641.8	30.17	766.3	—29	—33.9	100	calm	0	0		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.66	778.7	30.73	780.5	5.0	—15.0	76	n.	7	3.1			10n;fg		n.	inap.	inap.	light snow	D. C. Murphy.
Elliott, Fort, Texas	27.39	695.7	30.29	769.4	— 9	—22.8	23	ne.			6		10 s		ne.	0.06	1.5	cloudy	W. J. Cundall.
El Paso, Texas	26.10	662.9	29.98	761.5	41.0	5.0	52	w.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.35	745.5	30.12	765.0	32	0.0	88	ne.	4	1.8			10 n			0.15	3.8	sleeting	Peter Wood.
Escanaba, Michigan	29.65	753.1	30.37	771.4	2.0	—16.7	83	n.	18	8 0			10 s		n.	0.01	0.3	cloudy	George Heathcote.
Fredericksburg, Texas	28.16	715.3	29.96	761.0	66	18.9	90	s.	12	5.4			10 ks			inap.	inap.	cloudy	Frank Halwegler.
Galveston, Texas	29.99	761.7	30.04	763.0	64	17.8	93	se.	8	3.6		0	7 ks		sw.	0	0	fair	E. O'C. MacInernay.
Grand Haven, Michigan	29.44	747.8	30.15	765.8	16.0	— 8.9	83	ne.	14	6.3			10 s			0.22	5.6	threatening	J. E. Mueller.
Grant, Fort, Arizona	25.23	640.8	30.09	764.3	30	— 1.1	28	n.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.50	774.7	30.52	775.2	49	9.4	93	se.	10	4.5		6 k	3 s	sw.		0	0	cloudy	R. M. Crawford.
Helena, Montana	25.96	659.4	30.36	771.1	—27	—32.8	100	calm	0	0		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.29	744.0	30.34	770.6	5	—15.0	100	n.	24	10.7			10 n			0.02	0.5	light snow	J. P. Sherry.
Huron, Dakota	29.12	739.6	30.64	778.2	—17.8	—27.7		nw.	10	4.5			10 s			0.10	2.5	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.19	741.4	30.04	763.0	38	3.3	82	n.	6	2.7			10n;fg			0.61	15.5	light rain	C. F. R. Wappenhans.
Indianola, Texas	29.92	760.0	29.95	760.7	68.1	20.1	93	s.	13	5.8		0	8 k		sw.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	28.99	736.3	30.23	767.8	6	—14.4	76	n	12	5.4			10 s			0.01	0.3	cloudy	D. J. Carr.
Jacksonville, Florida	30.32	770.1	30.37	771.4	65	18.3	93	calm	0	0			10 s		se.	inap.	inap.	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.97	710.4	30.65	778.5	—36	—37.8	100	calm	0	0		0	0			inap.	inap.	clear	A. Schneider.
Keokuk, Iowa	29.45	748.0	30.15	765.8	13.0	—10.6	80	n.	10	4.5			10 n		n.	0.45	11.4	light snow	F. Z. Gosewisch.
Key West, Florida	30.19	766.8	30.21	767.3	74.0	23.3	88	e.	9	4.0		0	2 ks		e.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.52	775.2	30.54	775.7	51	10.6	86	sw.	15	6.7		6 cs	0	sw.		0	0	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	29.30	744.2	30.38	771.6	42	5.6	92	calm	0	0		1 cs	8ks;sk		sw.	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.54	750.3	30.38	771.6	3	—16.1	72	n.	14	6.3			10 s			0.03	0.8	cloudy	S. C. Emery.
Leavenworth, Kansas	29.36	745.7	30.31	769.9	0	—17.8	83	nw.	12	5.4			10 s			0.19	4.8	cloudy	A. W. Browne.
Lewiston, Idaho	29.78	756.4	30.65	778.5	— 9.0	—22.8	55	e.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.68	753.9	30.01	762.2	66	18.9	93	s.	6	2.7			10 ks		sw.	0.04	1.0	cloudy	W. U. Simons.
Los Angeles, California	29.69	754 1	30.09	764.3	34	1.1	30	ne.	3	1.3		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.50	749.3	30.09	764.3	60	15.6	75	s.	19	8.5			10 s		s.	inap.	inap.	cloudy	L. M Dey.
Lynchburg, Virginia	29.75	755.6	30.47	773.9	40	4.4	82	s.	1	0.4			10 s			0	0	threatening	Louis Duane.
Mackinaw City, Michigan	29.69	754.1	30.39	771.9	8.0	—13.3	76	ne.	20	8.9			10 s		ne.	0	0	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.50	774.7	30.51	774.9	51.0	10.6	93	sw.	9	4.0		6 cs	0	sw.		0	0	fair	William Daly.
Madison, Wisconsin	29.18	741.2	30.27	768.8	4	—15.6	72	n.	20	8.9			10 n			0.18	4.6	light snow	C. A. Shaw.
Maginnis, Fort, Montana	25.77	654.5	30.31	769.9	—34	—36.7	8	n.	4	1.8		0	0			0	0	clear	F. Burke.
McKavett, Fort, Texas	27.89	708.4	30.27	768.8	14	—10.0	83	n.	13	5.8			10 n			inap.	inap.	light snow	J. E. Thatcher.
Marquette, Michigan	29.63	752.6	30.41	772.4	0	—17.8	68	n	7	3.1			10 n			0.02	0.5	light snow	J. Gilligan.
Memphis, Tennessee	29.74	755.4	30.09	764.3	61	16.1	100	se.	16	7.2			10 n			0.04	1.0	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.38	746.2	30.18	766.0	19	— 7.2	84	ne.	23	10.3			10 s			1.10	27.9	cloudy	W. Line.
Missoula, Fort, Montana	27.09	688.1	30.52	775.2	—26	—33.3	100	calm	0	0		0	0			0	0	clear	I. H. Young.
Mobile, Alabama	30.22	767.6	30.26	768.6	61	16.1	87	se.	4	1.8		0	0			0	0	clear	C. A. Read.
Montgomery, Alabama	30.07	763.8	30.31	769.9	59.3	15.2	89	se.	9	4.0		5 k;hs	5 ks	w.	se.	inap.	inap.	cloudy	J. B. McLaughlin
Moorhead, Minnesota	29.56	750.8	30.66	778.7	—29	—33.9	100	n.	4	1.8			10 s		n.	0.02	0.5	cloudy	H. Bessant.
Morgantown, W. Virginia	29.18	741.2	30.25	768.3	58.0	14.4	72	sw.	8	3.6			10 s		w.	0	0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.79	604.3	30.41	772.4	12.0	—11.1	70	sw.	48	21.5			10n;fg		sw.	0.06	1.5	light snow	S. W. Beall.
Nashville, Tennessee	29.61	752.1	30.22	767.6	56.5	13.6	90	s.	12	5.4			10 ks		s.	inap.	inap.	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.38	771.6	30.50	774.7	26	— 3.3	100	ne.	5	2.2			10n;fg		ne.	0.13	3.3	light rain	J. H. Sherman.
New London, Connecticut	30.51	774.9	30.56	776.2	27	— 2.8	100	e.	4	1.8			10 n			0.13	3.3	light rain	J. G. Lynch.
New Orleans, Louisiana	30.12	765.0	30.18	766.6	66.0	18.9	93	se.	15	6.7			10 s		se.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	30.53	775.4	30.58	776.7	25.8	— 3.4	93	e.	10	4.5			10 n		e.	0.07	1.8	light snow	W. McGillivray.
New York, New York	30.28	769.1	30.47	773.9	31	— 0.6	100	ne.	7	3.1			10n;fg			0.10	2.5	light rain	J. B. Merrill.
Norfolk, Virginia	30.49	774.4	30.52	775.2	44	6.7	76	calm	0	0		5 cs	sk.			0	0	fair	Wm. Davis.
North Platte, Nebraska	27.36	694.9	30.46	773.7	—16.4	—26.9	64	nw.	14	6.3			10 n			0.25	6.3	light snow	E. F. Brady.
Olympia, Washington T'y	30.32	770.1	30.36	771.1	19.0	— 7.2	70	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.18	741.2	30.45	773.4	— 8.2	—22.3	64	n.	20	8.9			10 s			0.03	0.8	cloudy	A. Pollak.
Ooglaamie, Alaska	30.13	765.3	30.15	765.8	2.0	—16.7		s.	1	0.4		0	0			0	0	clear	P. H. Ray.
Oswego, New York	29.89	759.2	30.24	768.1	27.0	— 2.8	77	se.	13	5.8			10 n			0.06	1.5	sleeting	J. G. Linsley.
Palestine, Texas	29.50	749.3	30.08	764.0	51.0	10.6	80	w.	14	6.3		0	8 ks		s.	0.01	0.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.26	768.6	30.28	769.1	61.3	16.3	95	e.	6	2.7		7 cs	0	s.		0	0	fair	M. McGauran.
Philadelphia, Pa	30.35	770.9	30.46	773.7	36	2.2	79	e.	2	0.9			10n;fg		ne!	0.02	0.5	light rain	E. M. Mattison.
Pike's Peak, Colorado	17.17	436.1	29.89	759 2	— 9	—22.8	100	nw.			1		10 ks			0.09	2.3	cloudy	H. Hall.
Pioche, Nevada	23.81	604.8	29.97	761.2	3.8	—15.7	62	nw.	3	1.3		0	0			inap.	inap.	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.28	743.7	30.14	765.5	59.5	15.3	60	s.	13	5.8			10 s		sw.	inap.	inap.	cloudy	W. A. Reid.
Poplar River, Montana	28.28	718.3	30.63	778.0				nw.			4		10 s			0.09	2.3	cloudy	W. D. Maxwell.
Port Eads, Louisiana	30.19	766.8	30.20	767.1	61.0	16.1	93	e.	7	3.1		0	fg.			0	0	clear	H. B. Boyer.
Port Huron, Michigan	29.46	748.3	30.19	766.8	18.8	— 7.3	84	ne.	14	6.3			10 s			0.63	16.0	cloudy	W. O. Bailey.
Portland, Maine	30.59	777.0	30.64	778.2	19	— 7.2	84	nw.	10	4.5			10 n			0.20	5.1	light snow	W. W. Eichelberger.
Portland, Oregon	30.31	769.9	30.38	771.0	13.0	—10.6	61	e.	12	5.4		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					54	12.2	93	se.			2	3 c	4 ks	nw.	se.	0	0	fair	F. S. Coburn.
Prescott, Arizona	24.56	623 8	29.92	760.0	13.2	—10.4	83	sw.	1	0.4		0	0			0	0	clear	Jas. Cassidy.
Provincetown, Mass	30.59	777.0	30.62	777.7	25	— 3.9	73	se.	8	3.6			10 n			0.01	0.3	light snow	P. T. Jenkins.
Punta Rassa, Florida	30.26	768.6	30.27	768.8	67	19.4	93	ne.	7	3.1		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.84	757.9	30.21	767.3	25	— 3.9	73	n.	12	5.4		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.50	749.3	30.21	767.3	27	— 2.8	100	se.	14	6.3			10 n			0.29	7.4	light rain	E. W. McGann
Roseburg, Oregon	29.67	753.6	30.24	768.1	17	— 8.3	83	n.	2	0.9		0	0			0	0	clear	J. J. Naury.
Sacramento, California	30.11	764.8	30.19	766.8	25.0	— 3.9	73	nw.	15	6.7		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.41	747.0	30.05	763.3	32.2	0.1	100	nw.	0	2.7			10 n		nw.	1.61	40.9	heavy rain	J. H. Weber.
St. Michael, Fort, Alaska	30.28	769.1	30.31	769.9	23	— 5.0	100	se.	24	10.7			10 s			inap.	inap.	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.52	749.8	30.46	773.7	— 3.0	—19.4	83	n.	4	1.8		4 cs	0			inap.	inap.	fair	P. F. Lyons.
St. Vincent, Minnesota	29.76	755.9	30.73	780.5	—24	—31.1	100	calm	0	0		0	0			0	0	clear	C. B Dilley.
Salt Lake City, Utah	25.52	648.2	30.08	764.0	8	—13.3	58	calm	0	0			10 n			inap.	inap.	light snow	J. Craig.
San Antonio, Texas	29.22	742.2	29.94	760.5	68.5	20.3	84	se.	6	2.7		3 k	4 s		se.	0	0	fair	T. J. Kenan.
San Diego, California	30.02	762.5	30.09	764.3	47.8	8.8	42	w	9	4.0			8 s			inap.	inap.	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.40	746.7	30.12	765.0	35	1.7	89	ne.	12	5.4			10 n			0.48	12.2	light rain	M. H. Perry.
Sandy Hook, New Jersey	30.42	772.7	30.45	773.4	35.0	1.7	83	e.	12	5.4			10 n			0.08	2.0	light rain	B. A. Blundon.
San Francisco, California	30.11	764.8	30.18	766.6	35.5	1.9	40	se.	10	4.5		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	29.94	760.5	30.02	762.5	26	— 3.3	59	sw.	3	1.3		8 k	2 s	sw.	sw.	0	0	cloudy	H. U. Jones.
Savannah, Georgia	30.32	770.1	30.41	772.4	56.5	13.6	88	n.	4	1.8		10 cs	fg.	s.		0.27	6.9	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.64	676.6	30.49	774.4	—37	—38.3	100	w	4	1.8		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.79	756.7	30.04	763.0	68	20.0	90	s.	5	2.2			10 s		s.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28 97	735.8	30.28	769.1	3.5	—15.8	71	n.	17	7.6			10 n			0.18	4.6	light snow	W. M. Mattingly.
Silver City, New Mexico	24 21	614.9	30.00	763.5	28.5	— 1.9	76	w.	6	2.7		0	0			0	0	clear	N. D. Lane.
Sitka, Alaska	30.02	777.7	30.69	779.5	27	— 2.8	64	ne.	8	3.6		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.68	753.9	30.18	766.0	20.5	— 6.4	90	w.	12	5.4			10 n			0.37	9.4	light snow	J. B. Campbell.
Smithville, North Carolina	30.34	770.6	30.38	771.6	61	16.1	100	w.	8	3.6			fg.			0.04	1.0	dense fog	O. Parker.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.36	720.3	30.49	774.4	—16.2	—26.8	50	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	H. Clifford.
Springfield, Illinois	29.29	744 0	30.02	762.5	33.5	0.8	100	n.	5	2.2	.....	.....	10 n	.....	ne.	3.41	86.6	thnd'rstorm.	T. B. Jennings.
Springfield, Missouri	28.63	727.2	30.14	765.5	17.0	— 8.3	83	nw.	14	6.3	.....	.....	10 n	.....	.....	0.73	18.5	sleeting.....	J. H. Bryce.
Starkville, Miss	29.71	754 6	30.21	767.3	59	15.0	84	se.	19	8.5	.....	.....	10 s	.....	se.	inap.	inap.	cloudy.....	C. Dill.
Stevenson, Fort, Dakota	28.66	728.0	30.68	779.3	—26	—32.2	100	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	A. Schneider.
Stockton, Fort, Texas	26.96	684.8	30.09	764 3	21	— 6.1	87	n.	11	4.9	.....	.....	10 s	.....	nw.	0	0	cloudy.....	A. J. Warren.
Thatcher's Island, Mass	30.56	776.2	30.62	777.7	29.5	— 1.4	94	se.	9	4.0	.....	.....	10 n	.....	.....	0.15	3.8	light snow..	G. Liebmann.
Thomas ,Camp, Arizona	27.25	692.1	30.08	764.0	29	— 1.7	88	nw.	.....	.....	1	0	3 ks	.....	.....	0	0	clear.....	J. T. Fitzgerald.
Toledo, Ohio	29.40	746.7	30.14	765.5	30	— 1.1	88	ne.	12	5.4	.....	.....	10 n	.....	.....	0.78	19.8	light rain....	A. Buell.
Tucson, Arizona	27.59	700.8	30.07	763.8	28	— 2.2	77	s.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	J. L. Whiteside.
Umatilla, Oregon	30.29	769.4	30.67	779.0	—18	—27.8	100	se.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	30	— 1.1	59	n.	.....	.....	1	0	0	.....	.....	0	0	clear.....	O. L. Pease.
Vicksburg, Mississippi	29.87	758.7	30.14	765.5	69.4	20.8	85	s.	9	4.0	.....	.....	10 s	.....	s.	0	0	cloudy.....	James Keneally.
Visalia, California	29.80	756.9	30.18	766.6	22.0	— 5.6	73	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	O. D. Stewart.
Washakie, Fort, Wyoming	24.40	619.7	30.16	766.1	—45.2	—42.9	.....	calm	0	0	.....	0	0	.....	.....	0.02	0.5	clear.....	T. M. Ambler.
Washington, D. C.	30.33	770.4	30.45	773 4	36.8	2.7	83	s.	2	0.9	.....	.....	10 s	.....	s.	0	0	cloudy.....	B. M. Purssell.
West Las Animas, Colorado	26.17	664.7	30.30	769.6	—18.5	—28.1	100	n.	6	2.7	.....	0	0	.....	.....	0.01	0.3	clear.....	F. H. Brandenburg.
Williamsport, Pa	29.72	754.9	30.35	770 9	31.5	—0.3	100	se.	3	1.3	.....	.....	10 s	.....	s.	0.27	6.9	threatening.	B. F. Hough.
Wilmington, N. Carolina	30.43	772 9	30.49	774.4	39	3.9	81	s.	7	3.1	.....	0	0	.....	.....	0	0	clear.....	Samuel A. Haney.
Winnemucca, Nevada	25.60	650.2	30.12	765.0	—10.0	—23.3	76	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear.....	J. Grover.
Yankton, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. H. Atfield.
Yuma, Arizona	29.89	759.2	30.04	763 0	38.5	3.6	86	w.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.00	558 8	.....	.....	51.5	10.8	84	ne.	2	0.9	.....	.....	9 ks	.....	nw.	0	0	cloudy.....	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.10	764.5	30.11	764.8	72	22.2	80	calm	0	0	.....	0	5 s	.....	e.	0	0	fair.....	Robert Johnston.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	78	25.6	82	e.	.....	.....	3	5 k	8 ks	e.	e.	0.060	1.5	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mia	29.33	745 0	29.88	758.9	80	26.7	89	calm	.....	.....	0	7 ck	1 s	calm	calm	0	0	cloudy.....	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75	23.9	91	ne.	.....	.....	4	0	1 ks	.....	ne	0	0	clear.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.56	776.2	30.62	777.7	35	1.7	79	se.	.....	.....	5	.....	10 n	.....	.....	0.19	4.8	drizzling ..	W. J. Fisher.
St. Thomas, W. I.	30.08	764.0	30.21	767.3	76	24.4	69	e.	.....	.....	.....	0	2 k	.....	e.	0.10	2.5	clear.....	Aug. Wallon.
Havana, Cuba	30.09	764.3	30.16	766.1	70.4	21.3	89	e.	8	3.6	.....	0	1 k	.....	e.	inap.	inap.	clear.....	Benito Vines, S. J.
York Factory, H. B. A.	30.22	767.6	30.29	769.4	—24.0	—31.1	.....	nw.	18	8.0	.....	4 k	2 s	nw.	nw.	0	0	cloudy.....	Fortesque & Wood.

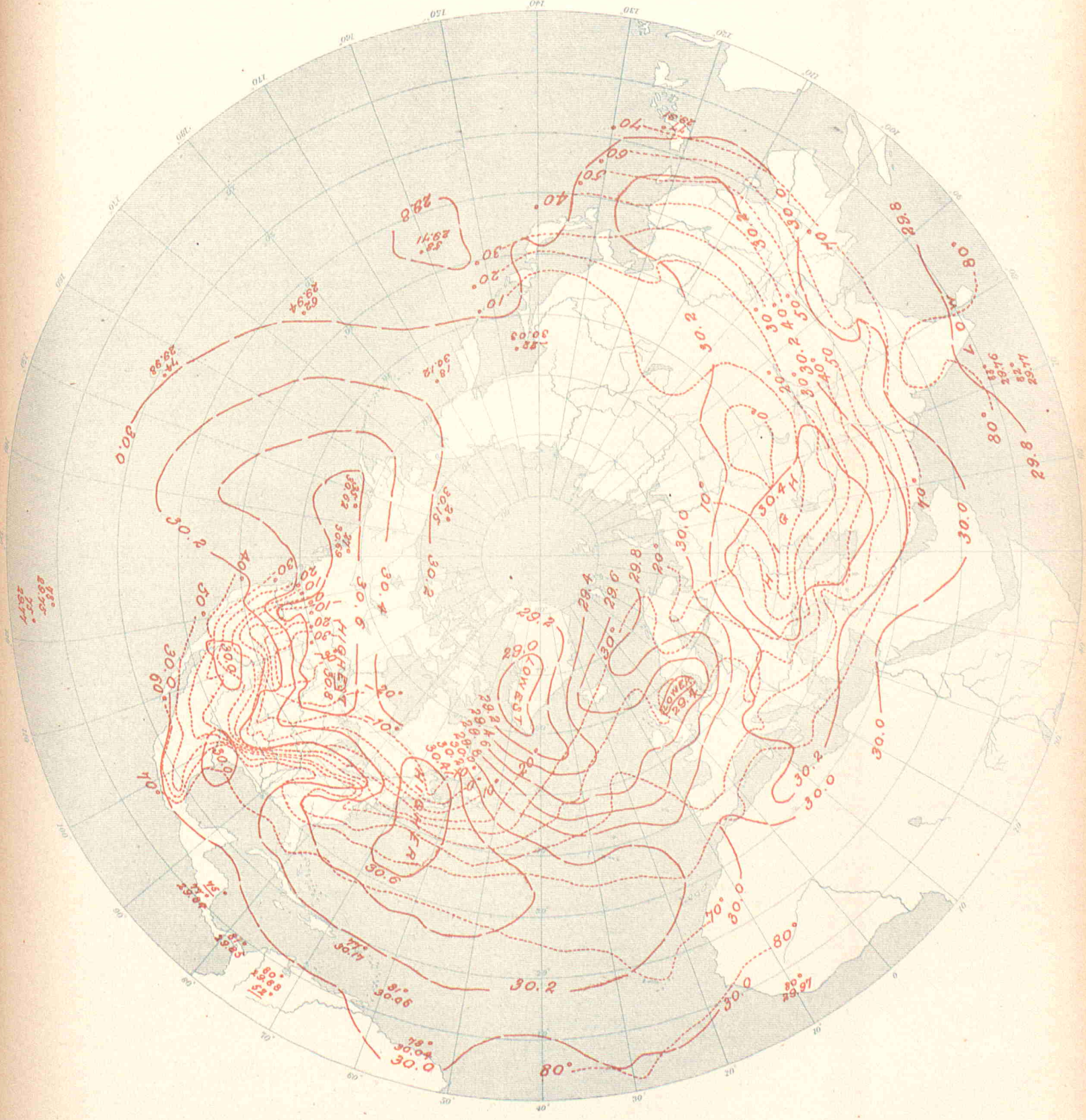
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell. Character.	Sea-swell. Direction from	Weather.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. Dock Yard, Bermuda, W. I.	30.61	777.5	61	16.1	70	ne.	.....	.....	2–3	.....	10	ne.	.....	.....	.....	.....	.....	overcast.
H. M. S. Iron Duke, N. 35° 16′, E. 18° 08′	30.31	769.9	62	16.7	83	nnw.	.....	.....	1	.....	3	wnw.	.....	.....	.....	1	nnw.	d. clouds.
H. M. S. Monarch, Port Said, Egypt	29.98	761.5	67	19.4	64	n.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
H. M. Tyne, N. 5° 53′, W. 11° 02′	29.97	761.2	80	26.7	91	nne.	.....	.....	1–2	.....	4	calm	.....	.....	.....	sm'h	.....	misty.
U. S. Navy Yard, Portsmouth, N. H*	30.59	777.0	20	—6.7	?	ne.	4	1.8	.....	.....	10	.....	ne.	.....	.....	.....	.....	snowing.
U. S. S. Alliance, N. 20° 20′, W. 84° 30′	30.03	762.7	77	25.0	95	ene.	.....	.....	4–6	.....	5	.....	.....	light	light	sm'h	.....	fair.
U. S. S. Enterprise, St. Vincent, Cape Verde Islands*	30.11	764.8	69	20.6	70	ne.	.....	.....	5	.....	5	.....	ne.	.....	.....	sm'h	.....	fair.
U. S. S. Jamestown, N. 30° 29′, W. 51° 29′	30.50	774.7	68	20.0	74	ne.	.....	.....	5	.....	10	.....	e.	.....	.....	mod.	ne.	cloudy.
U. S. S. Kearsarge, Curacoa Island, W. I	30.02	762.5	80	26.7	95	ene.	.....	.....	3	.....	2	.....	e.	.....	.....	.....	.....	fair.
U. S. S. Lancaster, N. 37° 09′, W. 0° 55′	30.02	762.5	57	13.9	93	n.	.....	.....	3	.....	8	.....	calm	.....	.....	sm'h	.....	fair.
U. S. S. Nipsic, N. 22° 59′, W. 31° 22′	30.32	770.1	70	21.1	75	ne.	.....	.....	4	.....	5	.....	.....	.....	.....	mod.	ne.	fair.
U. S. S. Portsmouth, N. 13° 59′, W. 58° 05′	30.09	764.3	76	24.4	95	ene.	.....	.....	5	.....	5	.....	e.	.....	.....	mod.	ene.	fair.
U. S. S. Quinnebaug, Villafranche, France	30.15	765.8	57	13.9	81	se.	.....	.....	1	.....	10	.....	e.	.....	.....	.....	.....	cloudy.
U. S. S. St. Louis, League Island, Pa.	30.49	774.4	33	0.6	89	ene.	4	1.8	.....	.....	10	.....	.....	0.25	6.3	.....	.....	drizzling.
U. S. S. Tennessee, St. Thomas, W. I*	30.16	766.1	81	27.2	70	ene.	11	4.9	.....	.....	0	.....	.....	0.04	1.0	.....	.....	clear.
U. S. S. Vandalia, Cape Haytien, W. I*	30.19	766.8	72	22.2	95	s.	.....	.....	1	.....	5	.....	e.	.....	.....	.....	.....	fair.
U. S. S. Yantic, Belize, Belize, C. A.	30.08	764.0	75	23.9	100	e.	.....	.....	3–4	.....	5	.....	.....	.....	.....	.....	.....	fair.
S. S. British Prince, N. 51° 20′, W. 13° 17′†	29.76	755.9	46	7.8	.....	nw.	.....	.....	3	.....	3	.....	wnw.	0	0	h'vy	nw.	clear.
S. S. Illinois, N. 43° 27′ W. 52° 52′	30.34	770.6	27	— 2.8	88	wnw.	.....	.....	5	.....	6	.....	w.	.....	.....	r'gh	wsw.	fair.
S. S. Lord Clive, N. 50° 21′, W. 3° 10′	.....	.....	.....	.....	.....	w.	.....	.....	4	.....	6	.....	w.	3 h'r	3 h'r	mod.	sw.	
S. S. Lord Gough, N. 38° 47′ W. 74° 47′	30.31	769.9	42	5.6	.....	sse.	.....	.....	3	.....	5?	.....	s.	0	0	sm'h	.....	cloudy*
S. S. Pennsylvania, N. 46° 37′, W. 45° 51′†	29.93	760.2	28	—2.2	?	nnw.	.....	.....	8	.....	9	.....	n.	snow	snow	r'gh	nw.	squally.
S. S. Circassian, N. 55° 20′, W. 12° 15′*	29.52	749.8	48	8.9	77	nnw.	.....	.....	4	.....	0	.....	nnw.	3 h'r	3 h'r	5	n.	d. clouds.
S. S. Grecian, N. 0° 30′ W. 30° 00′*	29.97	761.2	80	26.7	82	sse.	.....	.....	2	.....	0	.....	.....	½ h'r	½ h'r	sm'h	.....	clear.
S. S. Manitoban, N. 54° 37′, W. 19° 25′	29.54	750.3	46	7.8	.....	sw.	.....	.....	5	.....	10	.....	ssw.	3 h'r	3 h'r	sli't	s.	cloudy.
S. S. Scandinavian, N. 42° 31′ W. 65° 24′	30.66	778.7	19	— 7.2	.....	var.	.....	.....	1–2	.....	10	.....	w.	1 h'r	1 h'r	light	w.	snowing.
S. S. Ailsa, Cartagena, U. S. C†	29.96	761.0	84	28.9	87	ene.	.....	.....	2	.....	2	.....	ne.	0	0	sm'h	ene.	fair.
S. S. Bolivia, New York, N. Y.	30.46	773.7	33	0.6	.....	calm	.....	.....	0	.....	5	.....	.....	.....	.....	.....	.....	dense fog.
S. S. Dorian, N 41° 52′, W. 43° 19′	30.15	765.8	45	7.2	.....	w.	.....	.....	7	.....	8	.....	wnw.	hail	hail	r'gh	w.	hail sh'wers
S. S. Galatia, N. 37° 11′, E. 6° 39†	30.05	763.3	64	17.8	67	e.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Landaff City, N. 44° 16′, W. 52° 30′ †	30.40	772.1	18	— 7.8	.....	nnw.	.....	.....	6	.....	10	.....	nw.	snow	snow	mod.	nw.	snowy.
S. S. Bothnia, N. 41° 44′, W. 54° 34′	30.46	773.7	36	2.2	90	wnw.	.....	.....	5	.....	9	.....	n.	hail	hail	mod.	nw.	showery.
S. S. Gallia, N. 44° 36′, W. 44° 44	30.03	762.7	32	0.0	79	w.	.....	.....	8	.....	10	.....	w.	hail	hail	high	w.	squally.
S. S. Parthia, N. 51° 29′, W. 11° 49′	29.83	757.7	48	8.9	77	wnw.	.....	.....	4	.....	3	nw.	nnw.	6 h'r	6 h'r	h'vy	nw.	d. clouds.
S. S. Pavonia, Mersey River, Eng.	29.46	748.3	46	7.8	76	sw.	.....	.....	5	.....	2	.....	w.	2 h'r	2 h'r	.....	sm'h	clear.
S. S. Colina, N. 47° 35′ W. 29° 46′†	29.65	753.1	.....	.....	.....	wnw.	.....	.....	6	.....	6	.....	nw.	0	0	long	w.	cloudy.
S. S. Canada, N. 49° 56′, W. 7° 40′	29.85	758.2	42.8	6.0	.....	wnw.	.....	.....	3	ck	.....	wnw.	.....	.....	.....	.....	wnw.	overcast.
S. S. Labradore, N. 46° 34′ W. 36° 30′	.....	.....	38.3	3.5	.....	w.	.....	.....	6	.....	5	.....	wsw.	hail	hail	h'vy	wnw.	
S. S. Ville de Marseilles, N. 22° 06′, W. 88° 20′	.....	.....	85	29.4	.....	e.	.....	.....	4	.....	0	.....	.....	0	0	mod.	ne.	clear.
S. S. Arizona, N. 44° 57′, W. 46° 30′	30.08	764.0	28	—2.2	.....	wnw.	.....	.....	5	.....	8	.....	nw.	4 h'r	4 h'r	mod.	nw.	snowy.
S. S. Bohemia, Hamburg, Germany †	29.77	756.1	.....	.....	.....	sw.	.....	.....	3–8	.....	6 k	.....	se.	0	0	.....	.....	squally.
S. S. Rugia, N. 49° 56′, W. 16° 02′	29.95	760.7	49	9.4	.....	s.	.....	.....	6	.....	10	.....	w.	.....	.....	cross	w.	covered.
S. S. Silesia, Havre, France†	29.98	761.5	48.5	9.2	89	sw.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	blue sky.
S. S. Mentmore, N. 49° 21′, W. 28° 54′	.....	.....	.....	.....	.....	w.	.....	.....	4	.....	2	.....	w.	0	0	sm'h	w.	clear.
S. S. Bulgarian, N. 51° 57′, W. 6° 44′*	29.54	750.3	.....	.....	.....	wsw.	.....	.....	7	.....	10	.....	wsw.	3 h'r	3 h'r	mod.	wsw.	cloudy
S. S. San Marcos, N. 26° 35′, W. 86° 50′	.....	.....	74	23.3	.....	ese.	.....	.....	6	.....	1	.....	ese.	0	0	h'vy	ese.	clear.
S. S. Chalmette, N. 24° 30′ W. 83° 03′†	30.25	768.3	76	24.4	.....	se.	.....	.....	5	.....	2	.....	se.	0	0	mod.	se.	clear.
S. S. New York, N. 34° 30′, W. 75° 30′ †	30.47	773.9	68	20.0	.....	sse.	.....	.....	6	.....	4	.....	se.	0	0	r'gh	se.	clear.
S. S. Lone Star, N. 31° 15′ W. 80° 15′†	30.37	771.4	66	18.9	.....	ese.	.....	.....	4	.....	8	.....	se.	.....	.....	hv'y	ese.	rainy.
S. S. Hermod, N. 41° 07′, W. 53° 40′†	30.47	773.9	48.2	9.0	.....	nw.	.....	.....	7	.....	8	.....	wnw.	3 h'r	3 h'r	r'gh	nw.	cloudy.
S. S. Archimede, N. 38° 36′, E. 4° 22′†	30.09	764.3	68	20.0	.....	s.	.....	.....	3	.....	1	.....	sw.	0	0	sm'h	ssw.	clear.
S. S. Picqua, N. 38° 06′ W. 61° 35′	.....	.....	56	13.3	.....	nw.	.....	.....	3	.....	2	.....	nw.	0	0	light	nw.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. City of Washington, N. 33° 28′ W. 75° 30′ †	30.58	776.7	69	20.6	.....	se.	.....	.....	4	.....	8	.....	se.	0	0	mod.	e.	fine.
S. S. Santiago, N. 24° 46′ W. 73° 58′	30.27	768.8	75	23.9	.....	e.	.....	.....	4	.....	2	.....	se.	8 h'r	8 h'r	mod.	e.	clear.
S. S. Erin, N. 44° 37′, W. 52° 28′	.....	.....	18	— 7.8	.....	nw.	.....	.....	6	.....	4	.....	nw.	6 h'r	6 h'r	r'gh	wnw.	
S. S. Greece, N. 47° 38′, W 29° 43′	29.56	750.8	42	5.6	.....	wnw.	.....	.....	6	.....	9	.....	wnw.	15 h'r	15 h'r	long	wnw.	fair.
S. S. Braunschweig, N. 4° 20′, W. 39° 39′	29.94	760.5	77.0	25.0	91	ene.	.....	.....	2–3	.....	10	.....	ene.	6 h'r	6 h'r	light	ne.	rainy.
S. S. Hermann, N. 47° 07′, W. 32° 05′	29.70	754.4	42.8	6.0	100	wnw.	.....	.....	5	.....	10	.....	wnw.	3 h'r	3 h'r	5	wnw.	squally.
S. S. Belgenland, Jersey City, N. J.*†	30.56	776.2	32	0.0	.....	ene.	.....	.....	2	.....	fg.	.....	.....	3 h'r	3 h'r	.....	.....	foggy.
S. S. Rhynland, Antwerp, Belgium	29.91	759.7	42	5.6	100	sw.	.....	.....	6	.....	3	.....	ssw	0	0	.....	.....	fair.
S. S. Pennland, N. 48° 30′, W. 32° 37′	29.69	754.1	42	5.6	91	w.	.....	.....	3	.....	6	.....	wsw.	4 h'r	4 h'r	long.	ssw.	squally.
S. S. Switzerland, N. 40° 30′, W. 67° 13′†	30.67	779.5	.....	.....	.....	ssw.	.....	.....	2	.....	10	.....	ssw.	0	0	sm'll	.....	cloudy.
S. S. Waesland, N. 49° 14′, W. 33° 28′	29.66	753.4	36	2.2	.....	w.	.....	.....	6	.....	8	.....	w.	rain	rain	r'gh	w.	threatening.
S. S. Zeeland, N. 49° 12′, W. 30° 30′*†	29.54	750.3	45	7.2	.....	w.	.....	.....	5	.....	5	.....	sw.	rain	rain	hv'y	sw.	fair.
S. S. P. Oaland, N. 50° 32′, W. 2° 30′	29.69	754.1	40.4	8.0	90	ssw.	.....	.....	6	.....	8	.....	ssw.	.....	.....	5	sw.	cloudy.
S. S. Schiedam, N. 48° 07′, W. 22° 23′	29.56	750.8	52.3	11.3	.....	sw.	.....	.....	6	.....	10	.....	.....	10 h'r	10 h'r	h'vy	sw.	raining.
S. S. Zaandam, N. 44° 09′, W. 53° 00′	30.43	772.9	44.6	7.0	96	nw.	.....	.....	5	.....	7 n	.....	w.	4 h'r	4 h'r	4	nw.	squally.
S. S. Claudius, Greytown, Nicaragua, C. A†	30.04	763.0	78.6	25.9	84	e.	.....	.....	3	.....	5	.....	ene.	hv'y	hv'y	long	ne.	rainy.
S. S. Valencia, La Guayra, Venezuela†..	30.08	764.0	79	26.1	74	ese.	.....	.....	3	.....	2	.....	e.	o	o	mod.	ne.	fine.
S. S. State of Florida, N. 52° 19′, W. 21° 58′	29.39	746.5	47	8.3	.....	ssw.	.....	.....	7	.....	10	.....	s.	10 h'r	10 h'r	mod.	sw.	overcast.
S. S. State of Indiana. N. 49° 48′, W. 35° 30′	.....	.....	37	2.8	.....	wsw.	.....	.....	7	.....	6	.....	w.	6 h'r	6 h'r	high	w.	hail & snow
S. S. Marengo, N. 40° 30′, W. 72° 30′†	30.40	772.1	.....	.....	.....	w.	.....	.....	4	.....	10	.....	w.	o	o	mod.	w.	foggy.
S. S. Romano, N. 40° 12′, W. 59° 37′*	30.61	777.5	44	6.7	.....	nw.	.....	.....	6	.....	9	.....	nw.	3 h'r	3 h'r	mod.	nw.	cloudy.
S. S. Salerno, N. 49° 34′, W. 12° 04′	.....	.....	47	8.3	.....	nw.	.....	.....	5	.....	3	.....	nw.	1 h'r	1 h'r	mod.	nw.	fine.
S. S. Brooklyn, N. 51° 10′, W. 13° 25′	.....	.....	48	8.9	.....	wnw.	.....	.....	5	.....	.....	.....	w.	o	o	short	wnw.	clear.
S. S. Dominion, N. 51° 10′, W. 23° 03′*†	29.54	750.3	50	10.0	.....	w.	.....	.....	4	.....	10	.....	wsw.	8 h'r	8 h'r	rg'h	sw.	overcast.
S. S. Surrey, N. 46° 58′ W. 29° 48′†	29.09	754.1	48	8.9	.....	wnw.	.....	.....	6	.....	5	.....	wnw.	4 h'r	4 h'r	h'vy	var.	fair.
S. S. Lake Huron, N. 44° 33′, W. 46° 19′	.....	.....	25	— 3.9	.....	wnw.	.....	.....	8	.....	8	.....	wnw.	3 h'r	3 h'r	r'gh	wnw.	
S. S. Piantyn, N. 50° 20′, W. 6° 30′	29.73	755.1	.....	.....	.....	.....	.....	.....	6	.....	5	.....	nw.	10 h'r	10 h'r	high	wnw.	squally.
S. S. Norman, N. 39° 59′, W. 75° 08′*†	30.35	770.9	.....	.....	.....	sw.	.....	.....	1	.....	.....	.....	w.	light	light	.....	.....	cloudy.
S. S. Saxon, N. 40° —′, W. 73° 17′	.....	.....	.....	.....	.....	se.	.....	.....	6	.....	10	.....	se.	.....	.....	.....	.....	snowing.
S. S. Adriatic, N. 48° 50′, W. 30° 55′†	29.65	753.1	44	6.7	.....	wsw.	.....	.....	6	.....	7	.....	wsw.	6 h'r	6 h'r	long	wsw.	fair.
S. S. Baltic, N. 41° 03, W. 61° 07′†	30.66	778.7	33	0.6	80	n.	.....	.....	4	.....	9	.....	n	o	o	light	nw.	d. clouds.
S. S. Britannic, N. 43° 06′, W. 58° 13′	.....	.....	22	— 5.6	100	wnw.	.....	.....	6	.....	5	.....	wnw.	6 h'r	6 h'r	mod	w.	gloomy.
S. S. Republic, N. 51° 26′, W. 14° 14′†	29.88	758.9	54	12.2	80	wnw.	.....	.....	5	.....	6	.....	nnw.	o	o	4	nw.	d. clouds.
S. S. Iowa, N. 47° 43′, W. 35° 35′*†	29.72	754.9	42	5.6	.....	wsw.	.....	.....	4	.....	6	.....	wsw.	8 h'r	8 h'r	r'gh	wsw.	fair.
S. S. Parthia, N. 51° 27′ W. 12° 00′	29.70	754.4	48	8.9	78	wnw.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Antonio Lopez, N. 27° 58′ W. 26° 55′	30.35	770.9	65	18.3	58	nne.	.....	.....	3	.....	10	.....	.....	o	o	long	n.	cloudy.
Schr. Abbie H. Gheen, N. 33° 20′, W. 78° 00′†	30.55	776.0	65	18.3	.....	se.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	fair.
Bk. Alcira, Maracaybo, Venezuela, S. A	29.98	761.5	85	29.4	.....	ene.	.....	.....	2	.....	2	.....	ne.	o	o	.....	.....	clear.
Schr. Anna A. Holton, Tampico Mexico†	30.01	762.2	76	24.4	.....	ne.	.....	.....	2	.....	10	.....	ne.	.....	.....	sm'h	.....	drizzling.
Schr. A. R. Lewis, St. Pierre, W. I†	30.20	767.1	80	26.7	.....	ene.	.....	.....	1	.....	2	.....	ene.	2 h'r	2 h'r	.....	.....	clear.
Bk. Aureola, Swansea, Wales	.....	.....	50	10.0	.....	s.	.....	.....	5	.....	9	.....	s.	6 h'r	6 h'r	.....	.....	cloudy.
Bk. Achille F, N. 43° —′, W. 33° —′†	29.97	761.2	51.5	10.8	79	w.	.....	.....	6	.....	9	.....	n.	3 h'r	3 h'r	long	wnw.	cloudy.
S. Armenia, N. 36° 35′, W 56° 34′*	30.47	773.9	55	12.8	80	nw.	.....	.....	4	.....	9	.....	nnw.	o	o	mod	nw.	
Bg. Belle of the Bay, N 29° 54′, W. 88° 08 †	30.21	767.3	.....	.....	.....	e.	.....	.....	6	.....	0	.....	.....	o	o	mod.	e.	misty.
Bg. Bremen, N. 23° 53′, W. 61° 47′*	30.35	770.9	.....	.....	.....	ene.	.....	.....	6	.....	2	.....	ene.	o	o	r'gh	ene.	clear.
S. S. Benledi, N. 39° 50′, W. 70° 50′*	30.44	773.2	.....	.....	.....	s.	.....	.....	5	.....	6	.....	sw.	o	o	cf'd	s.	cloudy.
Bkt. Bonny Doon, N. 25° 35′, W. 56° 22′*†	30.32	770.1	.....	.....	.....	ene.	.....	.....	5	.....	2	.....	ne.	o	o	sm'h	e.	fair.
Bk. Bare, N 35° 48′, W. 40° 30′	.....	.....	66	18.9	.....	nw.	.....	.....	4	.....	3	.....	nnw.	3 h'r	3 h'r	sm'h	w.	hazy.
Bk. Pilgrim, N. 40° 10′, W. 72° 20′	.....	.....	.....	.....	.....	sw.	.....	.....	4	.....	6	.....	sw.	6 h'r	6 h'r	mod.	sw.	cloudy.
Bk. Champion, N. 39° 37′, W. 67° 11′	.....	.....	53	11.7	.....	sse.	.....	.....	4	.....	5	.....	sw.	o	o	mod.	s.	fair.
Bkt. C. S. Bushnell, N. 37° 10′, W. 34° 00′	30.21	767.3	.....	.....	.....	sw.	.....	.....	6	.....	5	.....	w.	light	light	h'vy	var.	clearing.
S. Cornelius, N. 59° 14′, W. 10° 12′†	29.53	750.0	44.4	6.9	.....	ene.	.....	.....	6	.....	9	.....	wsw.	8 h'r	8 h'r	long	ene.	squally.
Bk. Commerce, Cadiz, Spain †	29.91	759.7	64	17.8	.....	s.	.....	.....	4	.....	2	.....	ssw.	o	o	.....	.....	fine.
Bk. Ceres, N. 31° 32′, W. 39° 35′*	30.37	771.4	65.3	18.5	79	wsw.	.....	.....	3	.....	4	.....	wsw.	o	o	long	n.	fair.
Bk. Chas. Stewart, N. 37° 15′, W. 63° 25′ †	30.71	780.0	54	12.2	.....	wnw	.....	.....	3	.....	3	.....	wnw.	o	o	mod.	nw.	fair.
S. S. D. J. Foley, N. 35° 39′, W. 75° 10′*†	30.50	774.7	56	13.3	87	ese.	.....	.....	3	.....	8	.....	.....	o	o	mod.	ese.	hazy.
Schr. Edith R. Seward, San Domingo, Hayti, W. I*†	30.16	760.1	80	26.7	.....	ne.	.....	.....	3	.....	4	.....	ne.	o	o	r'gh	ese.	clear.
S. E. J. Spicer, N. 44° 10′, W 23° 00′	30.00	762.0	53	11.7	100	w.	.....	.....	6	.....	10	.....	nnw.	6 h'r	6 h'r	mod.	nw.	cloudy.
Bk. E. D. Bigelow, N. 38° 40′, W. 28° 10′*†	30.05	763.3	.....	.....	.....	sw.	.....	.....	8	.....	8	.....	sw.	o	o	.....	.....	squally.
S. E. B. Sutton, N. 2° 10′, W. 27° —′†	30.04	763.0	81.5	27.5	82	se.	.....	.....	2	.....	6	.....	.....	o	o	mod.	nne.	fair.
S. Festina Lente, N. 59° 25′, W. 12° 38′	29.55	750.6	45	7.2	.....	ene.	.....	.....	6	.....	3	.....	ene.	5 h'r	5 h'r	mod.	var.	fair.
S. Grecian, N. 4° 40′, W. 27° 26′†	30.02	762.5	79	26.1	86	ne.	.....	.....	5	.....	7	.....	var.	1 h'r	1 h'r	long	nne.	hazy.
Bk. Grey Eagle, N. 9° 48′ W. 46° 30′*†	29.90	759.4	.....	.....	.....	ene.	.....	.....	5	.....	5[2]	.....	.....	o	o	h'vy	ne.	clear.?
Bk. George, Ponce, Porto Rico, W. I*†	30.22	767.6	.....	.....	.....	ene.	.....	.....	3	.....	8	.....	.....	sh'rs	sh'rs	sm'h	.....	fair.
Bk. Galeon, Cardiff, Eng	.....	.....	43	6.1	.....	sw.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	
Bk. Heinrich & Tonio, N. 26° 10′, W. 60° 21′†	30.43	772.9	70	21.1	.....	ne.	.....	.....	6	.....	4	.....	ne.	3 h'r	3 h'r	mod.	ne.	fair.
Schr. Hattie Weston, Mayaro, Trinidad, W. I*†	30.03	762.7	78	25.6	.....	ene.	.....	.....	3	.....	1	.....	e	o	o	cross	var.	clear.
Bk. Hattie G. McFarland, N. 19° 12′, W. 81° 15′*†	30.20	767.1	79	26.1	.....	e.	.....	.....	5	.....	6	.....	e.	2 h'r	2 h'r	short	e.	showery.
Bk. Horace Scudder, N. 31° 54′, W. 51° 54′*†	30.50	774.7	64	17.8	.....	nne.	.....	.....	6	.....	5	.....	nne.	o	o	long	w.	fine.
S. S. J. M. Wilson, Brazos, Santiago, Texas*†	29.89	759.2	70	21.1	.....	s.	.....	.....	6	.....	10	.....	s.	o	o	.....	.....	hazy.
Bk. Johanne, N. 27° 40′, W. 66° 38′ *†	30.42	772.7	73	22.8	.....	ne.	.....	.....	6	.....	8	.....	ne.	3 h'r	3 h'r	cross	var.	threatening.
Schr. John L. Thomas, Vivorilla Cays, C. A*†	30.08	764.0	.....	.....	.....	ene.	.....	.....	4	.....	1	.....	e.	½ h'r	½ h'r	.....	.....	clear
Bg. L. & W. Armstrong, N. 30° 38′ W. 60° 34′*†	30.64	778.2	.....	.....	.....	ne.	.....	.....	6	.....	1	.....	ne.	o	o	mod.	ne.	clear.
Bg. Lillian, off Annapolis, Md†	30.47	773.9	37	2.8	.....	s.	.....	.....	3	.....	0	.....	.....	o	o	.....	.....	clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3	.....	.....	.....	e.	.....	.....	1	.....	6	.....	e.	o	o	.....	.....	fine.
Bk. Mary A. Troop, King Roads, Eng*†	29.65	753.1	.....	.....	.....	wsw.	.....	.....	4	.....	0	.....	.....	o	o	.....	.....	clear.
Schr. Minnie A. Bonsall, Mayport, Fla†	30.44	773.2	68	20.0	.....	ene.	.....	.....	1	.....	fg.	.....	ene.	o	o	.....	.....	foggy.
Bk. Myrtle, St. Thomas, W. I*†	30.00	762.0	.....	.....	.....	ene.	.....	.....	6	.....	1	.....	ene.	2 h'r	2 h'r	.....	.....	fair.
S. M. P. Grace. N. 3° 15′, W. 31° 52′ *	29.91	759.7	80	26.7	.....	ese.	.....	.....	3	.....	2	.....	e.	o	o	short	ene.	
Bkt. Norena, Matanzas, Cuba, W. I*†	30.28	769.1	.....	.....	.....	e.	.....	.....	2	.....	3	.....	ene.	o	o	.....	.....	fine.
Schr. Ocean Traveler, Santa Cruz Island, W. I†	30.13	765.3	.....	.....	.....	ene.	.....	.....	6	.....	4	.....	.....	.....	.....	.....	.....	fair.
Bk. Ottawa, Alicante, Spain*	29.97	761.2	60	15.6	.....	e.	.....	.....	1	.....	0	.....	.....	o	o	.....	.....	clear.
S. S. Raleigh, off Sandy Hook, N. J†	30.31	769 9	40	4.4	.....	e.	.....	.....	1	.....	fg.	.....	.....	o	o	sm'h	.....	foggy.
Bk. Reindeer, N. 14° 05′, W. 61° 12′ *..	30.12	765.0	.....	.....	.....	ene.	.....	.....	6	.....	.....	.....	ene.	.....	.....	.....	.....	snowing.
S. Rudolph, N. 41° 36′, W. 32° 27′	.....	.....	55.0	12.8	.....	nw.	.....	.....	4	.....	10	.....	var.	6 h'r	6 h'r	mod.	var.	cloudy.
Bg. Saga, N. 44° 00′, W. 40° 10′	.....	.....	.....	7.2	.....	w.	.....	.....	8	.....	5	.....	wnw.	15 h'r	15 h'r	S	wnw.	snow & hail
Bk. Sunbeam, N. 38° 41′, W. 9° 05′	30.07	763.8	45	12.8	82	ne.	.....	.....	6	.....	0	.....	.....	1 h'r	1 h'r	.....	.....	clear.
Bk. Uska, off Calf of Man Island, Eng*†	29.41	747.0	.....	.....	.....	var.	.....	.....	6	.....	6	.....	wsw.	.....	.....	.....	.....	drizzling
Schr. Wm. Wiler, Point a Petre, Gaudeloupe, W. I†	30.08	764.0	.....	.....	.....	e.	.....	.....	1	.....	2	.....	e.	2 h'r	2 h'r	.....	.....	squally.
S. S. Wm. Woodbury, N. 55° 31′, E. 5° 19′*	29.55	750.6	47	8.3	.....	wnw.	.....	.....	6	.....	6	.....	w.	.....	.....	sm'h	sw.	cloudy.
District No. 1.—South Atlantic.																		
H. M. S. Heroine, Montevideo, Uruguay	29.98	761.5	71	21.7	95	sw.	.....	.....	1	.....	2	s.	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Fawn, S. 2° 34′, W. 20° 34′	29.97	761.2	80	26.7	88	se.	.....	.....	3	.....	1	.....	.....	.....	.....	2	se.	blue sky.
H. M. S. Startling, S. 7° 10′, W. 13° 33′	.....	.....	78.5	25.8	.....	se.	.....	.....	3	.....	1	ese.	.....	.....	.....	.....	.....	
U. S. S. Brooklyn, Montevideo, Uruguay *	29.98	761.5	73	22.8	85	sw.	8	3.6	.....	.....	0	.....	.....	o	o	.....	.....	clear.
U. S. S. Galena, Montevideo, Uruguay*	30.01	762.2	72	22.2	75	w.	.....	.....	2	.....	2	.....	w.	.....	.....	sm'h	.....	fair.
S. S. Archimedes, S. 6° 16′, W. 33° 42′	29.89	759.2	.....	.....	.....	e.	.....	.....	4	.....	3	.....	nne.	¼ h'r	¼ h'r	mod.	ene.	fine.
S. S. Hevelius, Montevideo, Uruguay†	30.17	766.3	72	22.2	.....	ssw.	.....	.....	3	.....	2	.....	ssw.	o	o	.....	.....	clear.
S. S. Auckland, S. 20° 07′, W. 18° 24′	30.13	765.3	77	25.0	72	ese.	.....	.....	4	.....	5	.....	.....	.....	.....	.....	.....	blue sky.
S. S. City of Agra, S. 9° 04′, W. 33° 25′	30.03	762.7	79.6	26.4	89	ene.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. Caldew, S. 33° 30′, E. 17° 12′	30.02	762.5	70	21.1	79	sw.	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. May Hulse, S. 42° 55′, W. 55° 12′	29.68	753.9	55	12.8	80	ssw.	.....	.....	8	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
S. S. Ambrose, Para, Brazil*†	30.00	762.0	82	27.8	.....	var.	.....	.....	1–2	.....	3	.....	ne.	4 h'r	4 h'r	.....	.....	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.	Character.	Direction from.	
District No. 2—South Atlantic.—Continued.																		
Bk. Anna Thormann, S. 1° 35′ W. 25° 41′	30.02	762.4	81.0	27.2	77	ese.			4	0	3 k		se.	sh'rs	sh'rs	mod.	se.	fair.
Bg. Annie R. Storer, S. 20° 10′, W. 33° 00′*†	30.32	770.1				ne.			4		1		nne.	0	0	sm'h	ene.	clear.
Bk. Edmund Phiney, S. 42° 45′, W. 51° 14′ †	29.64	752.8	53	11.7		sw.			6–7		10		sw.	2 h'r	2 h'r	h'vy	sw.	squally.
Bk. E. L. Pettingill, S. 45° 34′, W. 44° 26′*†	29.30	744.2	47	8.3		sw.			7		8		sw.	hail	hail	rg'h	sw.	
S. Geo. Stetson, S. 44° —′ W. 50° —′ *†	29.60	751.8	52	11.1	66	ssw.			6		2		sw.	0	0	sm'h	n.	clear.
Bkt. Josephine, S. 35° 10′, E. 3° 50′†	30.21	767.3	69	20.6	61	ese.			5		10		ese.	1 h'r	1 h'r	mod.	se.	cloudy.
S. Titan, S. 11° 00′, W. 34° 52′ *†	30.06	763.5	81	27.2	87	ene.			2		1		ene.	0	0	sm'h	e.	fine.
Bk. Wandering Jew, Montevideo, Uruguay †	30.02	762.5	73	22.8		sw.			3		4		sw.	0	0			fair.
S. Sacramento, S. 40° 00′, W. 11° 47′ *†	30.16	766.1	66	18.9	78	nnw.			6		10			24 h'r	24 h'r	mod.	n.	overcast.
District No 3—South Pacific.																		
S. S. Arabic, N. 34° 48′, E. 156° 38′*†	29.71	754.6	58	14.4	76	wsw.			6		5		w.	sh'rs	sh'rs	mod	wsw.	squally.
S. S. Belgic, Hong Kong, China †			49	9.4	78	calm			0		10			0	0	sm'h		overcast.
S. S. Gaelic, N. 35° 27′, E. 139° 39′	30.05	763.3	37	2.8	100	ne.			5		2		n.	0	0		n.	fair.
S. S. Oceanic, N. 35° 45′, W. 142° 27′ *	30.42	772.7	58	14.4	88	se.			2		5		se.			light	ne.	fair.
S. S. Mississippi, Seattle, Wash. Ter†	30.43	772.9	21	—6.1	85	ne.			1		0							clear.
S. S. Willamette, N. 45° 52′, W. 124° 30′†	30.34	770.6	24	— 4.4	100	e.			5		2		ne.	0	0	sm'h		clear.
S. S. City of Chester, Hookton, Cal *†	30.15	765.8	44	6.7	84	nw.			2		2			0	0			fair.
S. S. Dakota, Victoria, B. C†	30.34	770.6	29	—1.7	78	ne.			2		2		n.	0	0	sm'h		clear.
S. S. G. W. Elder, San Francisco, Cal †	30.14	765.5	34	1.1	100	se.			2		0					sm'h		
S. S. Orizaba, N. 33° 43′, W. 118° 15′*†	30.00	762.0	52	11.1	42	w.			5		0			0	0	cross	var.	clear.
S. S. Queen of the Pacific, San Francisco, Cal†	30.17	766.3				ese.			1		0							clear.
S. S. State of California, Portland, Oregon †	30.32	770.1	12	—11.1	100	ne.			2		0							clear.
S. S. City of Pekin, Yokohama, Japan†	29.93	760.2	39	3.9	73	nne.			3		2		n.					clear.
S. S. City of Tokio, N. 32° 36′, W. 179° 20′ †	29.94	760.5	62	16.7	94	se.			6		8		se.	6 h'r	6 h'r	mod.	sse.	rainy.
S. S. City of Rio de Janeiro N. 8° 35′, W. 79° 33′			81	27.2	74	n.			4		1		n.	0	0	light	n.	fine.
S. S. Colima, N. 30° 53′ W. 118° 58′ †	30.15	765.8	51	10.6	86	nw.			6		9		wnw.	0	0	rg'h	wnw.	cloudy.
S. S. Grenada, N. 10° 43′, W. 86° 28†	29.84	757.9	77	25.0	82	ne.			4		0			0	0	mod.	ne.	clear.
H. M. S. Curacoa, Yokohama, Japan	29.85	758.2	40.5	8.1	82	nne.			1		0							blue sky
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	30.01	762.2	72	22.2		calm			0		10							d. clouds.
U. S. Naval Hospital, Yokohama, Japan*	30.03	762.7	35	1.7	80	n.			1		2		w.	0	0			clear.
U. S. S. Independence, Mare Island, Cal	30.21	767.3	30	—1.1	78	e.			4		2		e.	0	0			fair.
U. S. S. Lackawanna, Honolulu, Sandwhich. Islands*	29.98	761.5	74	23.3	81	calm			0		5		ne.					fair.
U. S. S. Monocacy, N. 28° 50′, E. 122° 27′	30.39	771.9	42	5.6	58	n.			4		0					sm'h		clear.
U. S. S. Palos, Tientsin, China*	30.10	764.5	18	— 7.8	100	nnw.			1		0							clear.
U. S. S. Ranger, San Diego, Cal	30.10	764.5	50	10.0	52	w.			3		8		calm	0	0	sm'h		cloudy.
U. S. S. Richmond, Hong Kong, China*	30.15	765.8	55	12.8	68	calm			0		10		nw.	0	0			cloudy.
U. S. S. Wachusetts, Off Oapu, Sandwich Ids	29.98	761.5	72	22.2	95	ene.			4		5		ene.			mod.	ene.	fair.
Bk. Childwall, N. 6° 41′, W. 125° 40′ *	29.75	755.6	78	25.6		e.			3		10		var.	4 h'r	4 h'r	sm'h		raining.
British Merchant, N. 3° 28′, W. 124° 42′	29.77	756.1	75	23.9	90	ese.			3		9							showery.
Tamega, Macao, China	30.23	767.8	47.8	8.8	56	n.			5		10			0	0			overcast.
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.94	760.5	66	18.9	94	calm			0		8							foggy.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	30.10	764.5	71.3	21.8	75	nw.			1		3					sm'h		d. clouds
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.83	757.6	62	16.7		nne.			2							1	nne.	d. clouds.
H. M. S. Rocket, S. 41° 30′, W. 72° 50′	30.08	764.0	56	13.3	94	calm			0		5							d. clouds.
H. M. S. Swiftsure, Galapago Id, S. A	29.87	758.7	74	23.3	100	calm			0		5		se.					misty.
H. M. S. Sylvia, Port Tamar, Patagonia	30.11	764.8	51	10.6	93	wnw.			3		10							misty.
U. S. S. Essex, Callao, Peru	29.84	757.9	67	19.4	95	calm			0		10							cloudy.
U. S. S. Iroquois, S. 18° 22′, W. 87° 38′	29.99	761.7	69	20.6	90	se.			5		8		se.			mod.	se.	foggy.
U. S. S. Onward. Callao, Peru*†	30.00	762.0	65	18.3	95	calm			0		10		n.					foggy.
U. S. S. Pensacola, Callao, Peru *	29.81	757.2	65	18.3	100	se.			1		10			0	0			clear.
Bk. Gronsvaer, Auckland, N. Z†	30.13	765.3	74.0	23.3		nw.			2		2		n.	0	0			clear.
S. S. Australia, S. 30° 08′, E. 179° 02′*	29.82	757.4	70	21.1	85	ene.			2		3		e.	0	0	sm'h	e.	clear.
S. S. City of Sydney, Sydney, N. S. W †	29.78	756.4	70	21.1	85	s.			4		8		s.	½h'r	½h'r			light rain
S. S. Zealandia, S. 21° 46′, W. 174° 02′*	30.05	763.3	76	24.4	86	e.			5									gloomy.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.90	759.4	59	15.0	76	calm			0		0							misty.
Bk. Warden Law, Pisagua, Peru *	30.12	765.0				calm			0		0			0	0	sm'h	s.	fair.
S. Sovereign of the Seas, S. 37° 32′, W. 121° 49′ *†	30.36	771.1	60	15.6	88	sse.			2		1			0	0	h'vy	sw.	clear.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, N. 4° 25′, E. 69° 00′	29.77	756.1	82	27.8		nw.			2		5		nw.			1	nw.	d. clouds
H. M. S. Eclipse, N. 19° 36′, E. 70° 23′	29.81	757.2	75	23.9		nne.			1–2		2		nne.			2	nne.	d. clouds
H. M. S. Euryalus, Trincomalee, Ceylon	29.76	755.9	77	25.0	90	ne.			4		6		calm					showery.
H. M. S. Himalaya, N. 8° 40′, E. 70° 50′	29.76	755.9	83	28.3	87	nne.			6		9					1	ne.	d. clouds
H. M. S. Woodlark, Bushire, Persia	30.08	764.0	60.5	15.8	66	wnw.			4–5		0					2	nw.	blue sky.
S. S. Scotia, N. 6° 07′, E. 78° 52′	29.74	755.4	80.6	27.0	83	nne.			5		7							d. clouds
S. Essex, S. 25° 08′, E. 36° 16′ *†	29.82	757.4	84	28.9		ese.			2		8		ese.	0	0	long	se.	fine.

International Chart I. February 3, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B.Hazen, Chief Signal Officer.
Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 4, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.04	763.1	63.0	17.2	84	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.08	764.0	64.4	18.0	49	nnw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Thève.
La Calle	.....	.....	30.17	766.3	68.7	20.4	74	ssw.	.....	.....	1	.....	2	.....	.....	0	0	fair	Foufrède.
Tunis	.....	.....	30.23	767.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.11	764.7	64.8	18.2	65	se.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Pérès.
Tebessa	.....	.....	30.29	769.3	65.8	18.8	62	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dognon.
Geriville	.....	.....	.....	.....	59.0	15.0	51	sse.	.....	.....	3	.....	1	.....	.....	0	0	very fair	Forfert.
Laghouat	.....	.....	30.27	768.8	50.4	10.2	50	ne.	.....	.....	1	.....	2	.....	.....	0	0	fair	Abraham.
Biskra	.....	.....	30.30	769.7	67.3	19.6	27	calm	.....	.....	0	.....	5	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.94	760.5	30.03	762.7	63.8	17.7	71	se.	15	6.7	.....	.....	0	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.61	752.2	30.17	766.3	53.2	11.8	64	sw.	.....	.....	3	.....	10	.....	.....	0.654	16.6	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.29	743.9	30.08	763.9	41.4	5.2	84	ne.	0	0	.....	.....	10	.....	.....	0.004	0.1	.....	Dr. Wierzbiski.
Eperies	29.20	741.7	30.11	764.9	38.1	3.4	92	s.	.....	.....	3	.....	10 s	...	...	Inap.	Inap.	.....	Julius Mikolik.
Gratz	28.82	732.1	30.10	764.6	43.3	6.3	77	n.	.....	.....	2	.....	4	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.75	730.3	30.23	767.8	41.0	5.0	74	se.	.....	.....	3	.....	4	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.82	732.0	30.22	767.7	34.7	1.5	94	calm	.....	.....	0	.....	10	.....	.....	0.220	5.6	gloomy	The Staff.
Lemberg	29.10	739.0	30.11	764.9	40.5	4.7	79	s.	.....	.....	1	.....	9	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.65	677.0	30.05	763.3	45.0	7.2	73	calm	.....	.....	0	.....	9	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.17	766.4	30.29	769.3	54.3	12.4	75	s.	.....	.....	2	.....	4	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.68	753.8	30.14	765.0	44.2	6.8	71	se.	.....	.....	2	.....	9	.....	.....	0	0	.....	Joseph Midlinszay, S. J.
Szegedin	29.87	758.8	30.16	766.1	47.5	8.6	76	s.	.....	.....	2	.....	7	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.15	765.7	30.24	768.2	53.1	11.7	79	calm	.....	.....	0	.....	10	.....	.....	0.606	15.4	.....	Royal Academy.
Vienna	29.42	747.2	30.17	766.2	37.0	2.8	86	nw.	.....	.....	1	.....	4	.....	.....	0.075	1.9	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.77	756 1	29.87	758.7	42.2	5.7	82	w.	2	0.9	.....	.....	7	.....	.....	0.025	0.6	misty	W. Boswell
Armagh, Observatory	29.64	752.8	29.88	758.9	41.8	5.4	91	s.	21	9.4	.....	.....	.....	.....	.....	.....	.....	.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.99	761.7	47.2	8.4	84	sw.	12	5.4	.....	.....	2	.....	.....	.....	.....	blue sky	John Hartnup.
Bolton, Sharples	29.46	748.3	30.00	762.0	44.4	6.9	71	wsw.	18	8.0	.....	.....	2	.....	.....	.....	.....	blue sky	Thomas Mackereth.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	McLandsborough & Preston.
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	80.0	26.7	69	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C
Cardington	.....	.....	.....	.....	49.4	9.7	74	w.	.....	.....	1.0	.....	0	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E.	29.99	761.7	30.12	765.0	48.1	8.9	71	sw.	.....	.....	1	.....	6	.....	.....	blank	blank	d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.87	758.7	30.10	764 5	49.5	9.7	74	ssw.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.56	700.0	29.80	756.9	74.0	23.3	71	calm	.....	.....	0	.....	10	.....	.....	.....	.....	overcast	Corpl. F. Milner, A. H. C.
Freetown	29.57	751 1	29.80	756.9	85.0	29 4	88	w.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	29.72	754.9	29.76	755.9	45	7.2	92	s.	.....	.....	3	.....	9	.....	.....	0.03	0.8	threatening	Wm. Ryan.
Gibraltar, Mediterranean	29.95	760 7	30.00	762.0	57.6	14.2	93	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	gloomy	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.66	753.4	29.86	758.4	42.8	6.0	81	sw.	.....	.....	4	.....	10 k	.....	.....	blank	blank	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.94	760.5	30.12	765.0	47.1	8.4	60	wsw.	.....	.....	2	.....	1	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.89	759.2	30.19	766.8	49	9.4	77	w.	.....	.....	1	.....	3	.....	.....	blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.09	764.3	30.12	765.0	47.0	8.3	62	sw.	12	5.4	.....	.....	4	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.79	756.7	30.00	763.5	46.5	8.1	72	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	J. C. Smith.
Malta, Mediterranean	.....	.....	.....	.....	56.4	13.6	96	e.	.....	.....	2	.....	7	.....	.....	0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.26	768 6	30.30	769.6	74.0	23.3	83	e.	.....	.....	2	.....	4	.....	.....	blank	blank	d. clouds	C. S. Duncombe
Oscott, St. Mary's College	29.51	749.5	30.04	763.0	48.3	9.1	71	sw.	.....	.....	4	.....	2	.....	.....	.....	.....	d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.87	758.7	30.10	764.5	46.6	8.1	73	wsw.	.....	.....	3	.....	1	.....	.....	.....	.....	blue sky	The Staff.
Plymouth	30.05	763 3	30.12	765.0	48.0	8.9	89	calm	.....	.....	0	.....	5	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.71	754.6	29.81	757.2	40	4.4	98	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.24	768.1	30.31	769.9	50.0	10.0	74	ssw.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	W. H. Lyne.
Sheffield	29.72	754 9	30.01	762.2	47.5	8.6	66	w.	.....	.....	2	.....	1	.....	.....	0	0	blue sky	W. F. Cooper.
Silloth Rectory	29.88	758.9	29.90	759.4	45.0	7.2	89	wsw.	.....	.....	3	.....	2	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.00	762.0	44.1	6.7	74	wsw.	13	5.8	.....	.....	7	.....	.....	.....	.....	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.90	759.4	30.13	765 3	47.5	8.6	75	sw.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	30.05	763.3	30.10	764.5	53	11.7	66	sw.	.....	.....	0	.....	0	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.75	755.6	29.78	756.4	50.6	10.3	80	sse.	36	16.1	.....	.....	10	.....	.....	blank	blank	gloomy	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.83	757.7	30.22	767.6	60.1	15.6	69	sse.	2.5	1.1	.....	0	1 n	.....	sse.	0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.19	766.8	30 23	767.8	7	—13.9	100	e.	9	4.0	.....	.....	10 n	.....	calm	0.020	0.5	light snow	H. J. Cundall, C. E.
Chatham, N. B*	30.17	766.3	30.23	767.8	5	—15.0	100	se.	5	2.2	.....	.....	10 n	.....	s.	0.21	5.3	light snow	G. A. Blair.
Cornwall	29.55	750.6	29.76	755.9	9.4	—12.6	100	e.	.....	.....	1	.....	10 s	.....	.....	0.160	4.1	overcast	Jas. Smith, M. A.
Dalhousie	30.14	765.5	30.20	767.1	3.5	—15.8	.....	e.	.....	.....	1	.....	10 n	.....	.....	0.300	7.6	snowing	H. A. Johnson.
Father Point, Quebec*	30.06	763.5	30.08	764.0	1	—17.2	87	ne.	20	8.9	.....	.....	10 n	...	.....	0.20	5.1	light snow	J. McWilliams.
Fort Garry, Manitoba*	29.38	746.2	30.39	771.9	—28	—33.3	100	sw.	18	8.0	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton	30.08	764.0	30.15	765.8	4.1	—15.5	97	ne.	6	2.7	.....	.....	10 n	.....	.....	0.310	7.9	snowing	Prof. Harrison, L. L. D.
Granton	29.02	737.1	30.21	767.3	10.5	— 8.6	92	nw.	9	4.0	.....	.....	10 n	.....	.....	0	0	overcast	Jas. Grant.
Halifax, N. S*	30.01	762.2	30.15	765.8	14	—10.0	100	ne.	15	6.7	.....	.....	10 n	.....	.....	0.040	1.0	hailing	A. Allison.
Hamilton	29.81	757.2	30.22	767.6	21.7	— 5.7	87	sw.	.....	.....	2	10 cb	0	sw.	.....	.....	.....	snowing	Geo. Dickson, B. A.
Kingston, Ontario*	29.59	751.6	29.95	760.7	15	— 9.4	96	w.	4	1.8	.....	.....	10 n	.....	.....	0.39	9.9	light rain	A. P. Knight, M. A.
Montreal, Quebec*	29.56	750.8	29.79	756.7	7	—13.9	91	ne.	16	7.2	.....	.....	10 s	...	.....	0.43	10.9	cloudy	C. H. McLeod, C. E.
Ottawa	29.62	752.3	29.89	759.2	13.0	—10.6	40	nw.	.....	.....	2	.....	10 s	.....	.....	.....	.....	sleeting	A. McGill, M. A.
Parry Sound, Ontario*	29.34	745.2	30.12	765.0	3	—16.1	76	w.	16	7.2	.....	5 k	5 ks	w.	w.	0.10	2.5	cloudy	Rev. R. Mosley.
Peterboro	29.30	745.7	30.18	766.6	12.7	—10.7	61	w.	.....	.....	4	0	0 s	.....	.....	0	0	d. clouds	J. Dixon, B. A.
Port Dover, Ontario	29.39	746.5	30.13	765.3	23	— 5.0	100	nw.	4	1.8	.....	.....	10 cs	.....	sw.	1.07	27.2	cloudy	H. Morgan.
Port Stanley, Ontario	29.50	749.3	30.19	766.8	21	— 6.1	87	w.	20	8.9	.....	.....	10 n	.....	w.	1.08	27.4	cloudy	M. Payne.
Quebec, Quebec*	29.52	749.8	29.88	758.9	5	—15.0	100	e.	.....	.....	9	.....	10 n	.....	.....	0.65	16.5	heavy snow	Capt. Ashe, R. N
Rockliffe, Ontario*	29.45	748.0	29.95	760.7	9	—12.8	87	nw.	5	2.2	.....	.....	10 s	.....	w.	Inap.	Inap.	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.37	746.0	30.14	765.5	15	— 9.4	100	nw.	16	7.2	.....	.....	10 s	.....	.....	0.13	3.3	cloudy	.....
St. Andrews, N. B	29.96	761.0	30.01	762.2	15	— 9.4	100	e.	5	2.2	.....	.....	10 n	.....	.....	0.12	3.0	hailing	.....
St. John, N. B	29.88	758.9	30.00	763.5	13	—10.6	100	e.	10	4.5	.....	.....	10 n	.....	.....	0.570	14.5	light snow	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.24	768.1	12.9	—10.6	.....	n.	.....	.....	2	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	28.81	731.8	30.18	766.6	17.2	— 8.2	92	nw.	16	7.2	.....	.....	10 s	.....	.....	0.406	10.4	overcast	C. J. Macgregor, M. A.
Sydney, C. B*	30.29	769.4	30.35	770.9	7	—13.9	91	e.	1	0.4	.....	.....	10 n	.....	.....	0.01	0.3	light snow	T. C. Hill, C. E.
Toronto, Ontario*	29.70	754.4	30.11	764.8	19	— 7.2	91	nw.	10	4.5	.....	.....	10 n	.....	nw.	0.41	10.4	cloudy	Magnetic Observatory.
Windsor	29.98	761.5	30.08	764.0	11.0	—11.7	.....	e.	4	1.8	.....	.....	10 n	.....	.....	.....	.....	hailing	Prof. W. H. Butler, M. A
Woodstock	29.09	738.9	30.24	768.1	20.3	— 6.5	90	ne.	3.0	1.3	.....	.....	10 s	.....	.....	0.10	2.5	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.88	758.9	29.95	760.7	32	0.0	100	e.	10	4.5	.....	.....	10 s	.....	.....	0.61	15.5	light rain	Lt. F. E. Wilmot, R.N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	29.96	761.0	29.99	761.7	69.8	21.0	77	e.	7.7	3.4	.....	.....	10 ks	.....	.....	0.110	2,8	dense haze	John Duthie.
Springbok Fontein	27.86	707.6	.....	.....	80	26.7	31	e.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. T. Eustace.
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.58	624.2	.....	.....	16.7	— 8.5	.....	sse.	.....	.....	1	.....	0	.....	.....	.....	.....	foggy	
Tchang-kia-tchouang	30.12	765.0	30.23	767.8	23.7	— 4.6	90	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	30.31	769.8	30.33	770.4	27.7	— 2.4	94	calm	0	0	.....	.....	0	.....	.....	0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copennagen	29.90	759.4	29.95	760.6	37.6	3.1	91	w.	11	5	.....	.....	10	.....	.....	.....	.....	rain & fog	Oversergent Fischer.
Fanoe	29.90	759.4	29.92	759.9	33.5	3.6	95	sw.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.32	744.8	29.37	745.9	— 4.5	—20.3	100	n.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	29.23	742.4	29.25	742.9	— 2.6	—19.2	.....	ne.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.30	744.1	29.34	745.3	— 4.7	—20.4	.....	sw.	.....	.....	2	.....	9	.....	.....	.....	.....	snowing	
Stykkisholm, Iceland	29.11	739.5	29.16	740.6	36.3	2.4	87	se.	.....	.....	8	.....	10	.....	.....	.....	.....	snowing	A. O. Thorlacius.
Thorshavn	29.74	755.3	29.77	756.2	41.4	5.2	83	se.	11	5	.....	.....	3	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	29.78	756.4	29.87	758.7	38.5	3.6	93	s.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	29.27	743.5	29.32	744.7	0.3	—17.6	.....	n.	.....	.....	2	.....	10	.....	.....	.....	.....	snowing	
French.																			
Agen, Normal School	29.65	753 1	30.33	770.3	45.0	7.2	100	calm	.....	.....	0	.....	k	.....	.....	0.012	0.3	.....	M. Labroue, Director.
Alençon, Normal School	29.73	755.2	30.28	769.2	39.6	4.2	93	n.	.....	.....	1	.....	fg	.....	nne.	0	0	dense fog	M. Nicot, Director.
Arras, Engineer School	29.87	758.6	30.13	765.4	44.6	7.0	91	w.	.....	.....	1	.....	ks	.....	.....	0	0	.....	M. Fénéon, Command't.
Avignon, Normal School	30.10	764.6	30.18	766.6	41.0	5	94	n.	.....	.....	3	.....	5	.....	n.	0.425	10.8	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.74	755.3	30.31	769.9	43.7	6.5	82	w.	.....	.....	2	0	8 kn	.....	wsw.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.97	761.3	30.24	768.2	45.5	7.5	77	ssw.	.....	.....	1	.....	2	.....	w.	0	0	slightly cl'dy	M. Frère Eugène Marié
Besançon, Normal School	29.34	745.2	30.26	768.7	40.6	4.8	87	ne.	.....	.....	1	.....	n	.....	n.	0.83	21.	.....	M. Gobla, Director.
Bordeaux, Observatory	30.04	762.9	30.30	769.7	46.2	7.9	87	sse.	.....	.....	1	.....	1	.....	.....	0.358	9.1	almost clear	M. Rayet, Director.
Bourges, Normal School	29.56	750.7	30.12	765.0	46.8	8.2	83	ne.	.....	.....	1	0	2 k	.....	ne.	0	0	slightly cl'dy	M. Malet, Director.
Brest, Naval Observatory	29.94	760.4	30.18	766.6	51.8	11.0	77	sw.	.....	.....	2	.....	2	.....	sw.	0.228	5.8	.....	M. de Kermarec, Dir.
Caen, Normal School	30.19	766.7	30.27	768.8	48.2	9	39	n.	.....	.....	1	.....	0	.....	.....	0.016	0.4	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.91	759.6	30.23	767.9	42.4	5.8	88	s.	.....	.....	2	.....	10	.....	.....	0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.67	753.6	30.19	766.8	40.3	4.6	80	e.	.....	.....	1	.....	8	.....	.....	0	0	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.91	734.4	30.33	770.4	37.9	3.3	91	ne.	.....	.....	1	5 ck	0	.....	.....	1.177	29.9	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.47	748.5	30.35	770.9	.....	.....	.....	n.	.....	.....	2	.....	8	.....	sw.	0.250	6.5	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.38	746.2	30.29	768.7	42.1	5.6	89	w.	.....	.....	1	.....	5 k	w.	w.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.61	701.2	30.21	767.2	43.2	6.2	79	calm	.....	.....	0	.....	10 n	.....	.....	0.437	11.1	.....	M. Jeangirard, Director.
Gréasque, du Rhone	28.99	736.4	30.15	765.7	46.9	8.3	94	w.	.....	.....	2	.....	10	.....	sw.	.....	.....	raining	M. Kina, Director.
Grenoble, Normal School	29.59	749.4	30.30	769.7	37.0	2.8	89	wnw.	.....	.....	1	.....	10 n	.....	ne.	0.047	1.2	raining	M. Ablard, Director.
Guéret	28.72	729.5	30.36	771.2	42.8	6	79	n.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	30.03	762.7	30.30	769.7	48.2	9	73	sse.	.....	.....	2	.....	1	.....	sse.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.60	751.9	30.17	766.4	50.0	10.0	74	se.	.....	.....	3	.....	10 ks	.....	.....	0.634	16.1	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.12	765.0	30.26	768.5	52.9	11.6	67	s.	.....	.....	1	.....	2	.....	s.	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.24	742.6	30.33	770.4	40.3	4.6	84	n.	.....	.....	1	10 ck	0	nne.	.....	0.106	2.7	covered	M. André, Director.
Mans, Normal School	29.99	761.0	30.28	769.1	42.6	5.9	83	sw.	.....	.....	1	.....	0	.....	.....	0.012	0.3	clear	M. Pihoën, Director.
Marseille, Observatory	29.86	758.4	30.13	765.3	58.8	14.9	77	nw.	.....	.....	0.1	.....	10	.....	se.	0.079	2.0	light rain	M. Stephan, Director
Montlouis	24.93	633.2	29.77	756.2	39.2	4.0	73	nw.	13.0	5.8	.....	.....	0	.....	.....	0	0	.....	M. Caré for Dr. Fines.
Montpellier, Normal School	30.04	763.0	30.17	766.3	46.8	8.2	83	n.	.....	.....	2	.....	5	nw.	.....	0	0	cloudy	M. Gulzin, Director.
Nancy, Normal School	29.43	747.5	30.24	768.1	42.1	5.6	75	w.	.....	.....	1	.....	k	.....	wsw.	0	0	.....	M. Hasse, Director.
Nantes, Observatory	30.15	765.4	30.30	769.5	52.5	11.4	65	s.	.....	.....	0–1	.....	1	.....	.....	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	30.13	765.2	30.24	768.1	52.3	11.3	53	n.	18.6	8.3	.....	.....	2	.....	wsw.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.18	537.9	.....	.....	23.0	— 5.0	.....	calm	.....	.....	0	.....	1	.....	w.	0.071	1.8	clear	M. Vaussenat, Director.
Privas, Normal School	29.20	741.7	30.31	769.9	40.6	4.8	77	n.	.....	.....	4	.....	2	ne.	ne.	0.091	2.3	slightly cl'dy	M. Taillen.
Puy de Dôme Obs'y, Summit	25.26	641.7	.....	.....	25.2	— 3.8	100	n.	.....	.....	2	.....	2	.....	.....	1.071	27.2	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.26	768.7	30.30	769 5	51.1	10.6	70	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.98	761.4	30.20	767.0	45.7	7.6	91	w.	.....	.....	1	.....	0	.....	.....	0.04	1.	clear	M. Brotier, Director.
Rodez, Normal School	27.90	708.7	30.12	765.1	40.1	4.5	90	se.	.....	.....	1	.....	0	.....	.....	0.319	8.1	clear	M. Seger, Director.
Rouen, Normal School	30.21	767.3	30.26	768.5	48.2	9	70	wsw.	.....	.....	1	.....	2	wsw.	.....	0.031	0.8	slightly cl'dy	M. Mouillot.
Saint Lô	.....	.....	.....	.....	49.5	9.7	93	sw.	.....	.....	1	.....	0	.....	.....	0.008	0.2	clear	M. Delaplanche, Dir.
Saint Maur, Observatory	30.10	764.6	30.27	768.8	43.0	6.1	89	wsw.	.....	.....	1	.....	1	n.	.....	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.61	752.3	30.35	770.8	40.9	8.3	80	n.	.....	.....	1	.....	5	nw.	.....	0.031	0.8	cloudy	M. Baillaud, Director.
Tours	30.12	765.0	30.30	769.5	42.8	6.0	79	sw.	.....	.....	1	.....	10	.....	wsw.	0.004	0.1	covered	M. de Tastes.
Versailles, Observatory	29.76	756.0	30.26	768.5	44.2	6.8	74	sw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.15	765.8	30.30	769.6	50.2	10.1	64	e.	9.8	4.4	.....	0	2 k	.....	ne.	0.862	21.9	.....	M. Cartier, Director.
German.																			
Ansbach	28.74	729.9	30.25	768.4	38.1	3.4	92	w.	.....	.....	4	.....	9	w.	.....	0.177	4.5	.....	Prof. Jnedt.
Bamberg	28.28	743.8	30.13	765.3	41.4	5.2	75	wnw.	.....	.....	2	0	4 k	.....	nw.	0.079	2.0	.....	Prof. Dr. Hoh
Berlin	29.93	760.2	30.08	764.0	41.7	5.4	89	sw.	.....	.....	2	.....	10	.....	.....	0.020	0.5	.....	Meteorological Institute.
Breslau	29.60	751.7	30.13	765.2	35.8	2.1	98	wnw.	.....	.....	3	.....	10	.....	.....	0.063	1.6	raining	Royal University Obs'y
Carlsruhe	29.80	757.0	30.28	769.1	41.9	5.5	84	sw.	.....	.....	4	.....	10	sw.	.....	0	0	.....	Albert Senz.
Cassel	29.35	745.6	30.07	763.7	43.9	6.6	95	s.	.....	.....	6	.....	6	sw.	.....	0.012	0.3	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.81	757.2	30.19	760.9	45.9	7.7	65	ssw.	.....	.....	3	.....	6	.....	.....	0	0.	.....	Physical Society.
Friedrichshafen	28.81	731.8	30.31	769.9	37.0	2.8	93	w.	.....	.....	2	.....	10	w.	.....	0.075	1.9	light rain	Wilhelm, Chief Tel.
Hamburg	29.93	760.3	30.02	762.6	40.1	4.5	81	ssw.	.....	.....	3	.....	8	.....	.....	0	0	.....	E. Preller.
Kiel	29.98	761.4	29.99	761.8	39.6	4.2	88	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.69	754.0	30.11	764.9	43.9	6.6	73	sw.	.....	.....	2	.....	8	wsw.	.....	.....	.....	raining	H. Leppig, Asst.
Magdeburg	29.87	758.7	30.07	763.7	44.2	6.8	76	sw.	.....	.....	3	.....	10	wsw.	.....	0.004	0.1	prinkling	Dr. Assmann.
Memel	29.89	759.1	29.93	760.3	30.5	2.5	100	w.	.....	.....	5	.....	10 8	.....	.....	.....	.....	.....	Issermann.
Munich	28.37	720.6	30.24	768.2	35.1	1.7	93	nw.	.....	.....	1	.....	10	.....	.....	0.024	0.6	.....	Central Station.
Neufahrwasser	30.00	762.1	30.02	762.5	40.3	4.6	79	w.	.....	.....	2	.....	8	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.68	753.8	30.21	767.2	44.2	6.8	68	w.	.....	.....	4	.....	8	w.	.....	0	0	.....	Dieknether.
Stuttgart	29.27	743.4	30.19	766.9	41.5	5.3	85	w.	.....	.....	1	.....	9	w.	.....	.....	.....	light rain	Prof. Dr. Schoder.
Wustrow	29.99	761.7	30.02	762.4	37.8	3.2	89	ssw.	.....	.....	3	0	8 8	.....	.....	0	0	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.94	760.5	30.33	770.3	59.4	15.2	.....	ne.	.....	.....	0.5	0	1 k	.....	.....	0	0	.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.00	761.9	30.05	763.3	74.8	23.8	37	nne.	30.0	13.4	.....	.....	0	.....	.....	0	0	blue sky	
Deesa	29.50	749.3	29.98	761 0	75.7	24.3	17	nne.	15.0	6.7	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.83	757.7	29.87	758.7	78.8	26.0	63	nnw.	23.0	10.3	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.00	711.2	29.83	757.8	85.6	29.8	26	e.	5.0	2.2	.....	.....	7	.....	wsw.	0	0	d. clouds	
Belgaum	27.31	693.8	29.84	757.8	79.2	26.2	32	ene.	8.0	3.6	.....	.....	8	.....	se.	0	0	d. clouds	
Lahore	29.30	744.1	30.08	763.9	60.1	15.6	39	nw.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	29.06	738.0	30.00	761.9	60.2	15.7	45	nw.	8.0	3.6	.....	.....	0	.....	.....	0	0	.....	
Agra	29.44	747.8	30.03	762.7	66.3	19.1	33	w.	6.0	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.87	733.3	29.91	759.7	82.0	27.8	23	calm	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Jubbulpore	28.60	726.6	29.98	761.9	72.8	22.7	26	ne.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.58	751.4	29.98	761 4	65.3	18.5	47	wsw.	5.0	2.2	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.65	753.0	29.97	761.3	64.0	18.1	50	nw.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.73	755.2	29.92	760.0	64.4	18.0	51	w.	4.3	1.9	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.88	708.2	29.90	761.0	61.7	16.5	38	wnw.	9.2	4.1	.....	.....	0	.....	.....	0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.85	758.2	29.93	760.3	75.8	24.3	56	calm	0	0			3			0	0	d. clouds	
Calcutta, Alipore	29.93	760.2	29.95	760.8	65.0	18.3	49	wnw.	0.5	0.2			0			0	0	blue sky	
Dhubri	29.79	756.6	29.91	759.8	63.4	17.4	62	calm	0	0			0			0	0	blue sky	
Chittagong	29.88	759.0	29.98	761.4	65.1	18.4	47	calm	2.8	1.2			0			0	0	blue sky	
Sibsagar	29.58	751.3	29.93	760.2	61.9	16.6	81	ne.	2.0	0.9			4		W.	0	0	d. clouds	
Jeypore	28.56	725.4	30.06	763.4	64.4	18.0	36	nne.	7.2	3.2			0			0	0	blue sky	
Bellary	28.38	720.8			86.4	30.2	31	se.	4	1.8			c			0	0	blue sky	
Trichinopoly	29.60	751.8			78.2	25.7	65	ne.	1	0 4			10			c	0	overcast	
ITALIAN.																			
Udine	29.84	757.8	30.26	768.5	48.4	9.1	96	calm	0	0			10			0.035	0.9		Prof. Giovanni Clodig.
Milan	29.71	754.6	30.24	768.2	44.2	6.8	91	wnw.	1.3	0.6			10			0.077	17.2		Prof. Schiapparelli.
Padua	30.12	765.1	30.24	768.0	49.1	9.5	88	nne.	3.8	1.7			10	nne.		0.012	0.3		Prof. Dott. Lorenzoni.
Moncalieri	29.31	744.5	30.26	768.5	39.6	4.2	92	ne.	0	0			10	n.		0.276	7.0		Prof. F. F. Denza.
Genoa	30.00	761.9	30.19	766.9	53.2	11.8	85	e.	7.4	3.3			10	se.		0.429	10.9		Prof. G. M. Garibaldi.
Mondovi	28.27	718.1	30.26	768.6	40.5	4.7	89	w.			2		10			0	0		Prof. D. C. Bruno.
Pesaro	30.26	768.5	30.31	769.8	52.2	11.2	73	sse.	4.9	2.2			10			0	0		Prof. Luigi Guidi.
Florence	29.99	761.8	30.25	768.4	54.5	12.5	75	s.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	30.09	764.2	30.17	766.4	58.1	14.5	74	sse.	6.3	2.8			8	w.		0	0		Prof. P. Monte.
Rome	30.11	764.8	30.29	769.3	57.2	14.0	65	s.	7.4	3.3			9			0	0		Prof. P. Tachini.
Lecce	30.06	763.5	30.32	770.1	57.6	14.2	71	ssw.	3.1	1.4			2			0	0		Prof. C. de Giorgi.
Cosenza	29.39	746.5	30.30	769.5	56.8	13.8	78	wsw.	3.8	1.7			0			0	0		Prof. D. Conti.
Cagliari	29.97	761.2	30.17	766.2	59.7	15.4	77	ese.			4		0			0	0		Prof. A. Pacinotti.
Palermo	30.00	762.0	30.25	768.4	61.0	16.1	40	ne.	2.5	1.1			0			0	0		Prof. G. Cacciatore.
Syracuse	30.28	769.2	30.33	770.3	58.3	14.6	70	s.	5.6	2.5			3	sw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.79	756.6	30.32	770.0	57.2	14.0	72	sw.	1.8	0.8			4	nw.		0	0		Prof. F. Brioschi.
Stelvio	22.13	562.0			24.8	— 4.0	57	w.			4		10			0.461	11.7	misty	Prof. P. F. Denza.
Valdobbia	22.22	564.4			23.7	— 4.6	68	w.			2		10			1.181	30.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.94	760.6	29.97	761.4	33.0	0.6	89	calm			0		10 ck		sw.	0.047	1.2	cloudy	H. Hattori.
Awomori	29.93	760.2	29.97	761.2	28.0	— 2.2	95	se.	5.3	2.4			10 n			0.169	4.3	snowing	K. Ogawa.
Hakodate	30.01	762.3	30.02	762.6	25.8	— 3.4	90	e.	1.8	0.8			10			0.028	0.7	snowing	
Hamamatsu	30.03	762.7	30.00	763.4	37.0	2.8	64	calm			0	0	0			0	0	clear	
Kagoshima	30.17	766.4	30.19	766.7	40.0	4.4	66	calm			0		9 s			0	0	cloudy	G. Miyanonaza.
Kioto	29.95	760.7	30.13	765.4	32.2	0.1	79	wnw.	2.5	1.1		0	2 s			0	0	clear	M. Tojima.
Kochi	30.11	764.8	30.13	765.3	38.2	3.4	61	nw.	9.5	4.2		0	0			0	0	clear	K. Kusunose.
Miasaka	30.15	765.8	30.18	766.5	38.7	3.7	64	calm			0	0	7 ks;s		ssw.	0	0	fair	K. Masusaki.
Nagasaki, I. M. Obs'y	29.98	761.6	30.20	767.0	37.0	2.8	67	n.	2.1	0.9			10 n					light snow	S. Takehayashi.
Niigata	29.98	761.5	30.01	762.2	39.6	4.2	67	w.	23.2	10.4			10ck;s		w.	0.585	14.9	covered	M. Morita.
Nobiru	29.97	761.1	29.98	761.5	34.6	1.4	82	ene.	6.1	2.8		0	0			0	0	clear	H. Midzushima
Numazu	29.99	761.7	30.02	762.5	33.7	0.9	84	ese.			2	0	0			0	0	clear	R. Kaneda.
Osaka	30.10	764.0	30.12	765.0	35.0	1.7	80	ene.	2.6	1.0		0	0			0	0	clear	H. Omura.
Sakai	30.11	764 8	30.12	765.1	33.9	1.1	91	w.			2		9 s		w.	0.252	6.4	cloudy	K. Yamawchi.
Supporo					15.0	— 9.4	85	calm	0	0			10			0	0	covered	
Tokei Obs'y, Yeddo	29.97	761.2	30.05	763.3	32.0	0.0	89	calm	0	0		0	0			0	0	clear	The Staff.
Wakayama	30.06	763.5	30.11	764.9	35.2	1.8	74	ne.	4.0	1.8		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.63	752.6	29.82	757.4	80.2	26.8	75	sw.	9.5	4.2		2ck;cs	5 ks;k	w.	var.	0.11	2.8	fair	Oliver & Figou.
MEXICAN.																			
Altata					53	11.7	93	n.										hazy	H. Diaz Pena.
Guanajuato	23.70	602.0	29.92	760.0	58.6	14.8	72	nne.	Imap.	Imap.		0	0			0	0	foggy	Prof. Vicente Fernandez.
Leon	24.35	618.5	30.06	763.5	55.4	13.0	81	nw.			1	4 c	0			0	0	clear	Prof. M. Leal.
Mazatlan	29.74	755.5	30.01	762.2	61.0	16.1	82	wnw.	1.6	0.8		4 cs	0	s.		0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.3	30.25	768.4	49.6	9.8	66	calm	0	0		0	0			0	0	fine	The Staff.
Morelia	24.30	617.3	30.22	767.6	50.0	10.0	73	se.			2	1 c	0	e.		0	0	clear	M. Tena, M. D.
Pabellon	23.97	608.8	30.01	762.2	53.2	11.8	68	calm	0	0		0	0			0	0	fine	
Puebla, Catholic Institute	23.40	594.4	30.32	770.0	43.7	6.5	87	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
Zacatecas	22.55	572.7	30.25	767.8	51.8	11.0	49	n.	5.1	2.3		0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.12	765.0	30.12	765.0	45.7	7.6		wsw.			4					0.024	0.6		
Groningen	29.92	759.9	29.97	761.2	39.7	4.3		ssw.			2					0	0		
Helder																c	0		
Hellevoetsluis	30.08	764.1	30.08	764.1	44.6	7.0	83	w.			3					0.043	1.1		
Utrecht	30.03	762.8	30.08	764.0	44.1	6.7	90	wsw.			3		8			0.079	2.0	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.79	756 6			78.1	25.6	92	nnw.	0	0			10			0	0		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.74	755.5	29.81	757.1	39.6	4.2	80	w.	2	1			7			0	0		
Brono	29.87	758.8	29.91	759.8	27.3	— 2.6	58	calm			0		0			0	0		
Christiania	29.74	755.3	29.89	759.2	31.1	— 0.5	98	e.	7	3			9			0.035	0.9	snowing	
Gjesvær	29.74	755.4	29.76	759.0	32.7	0.4		w.			7		8						
Lodingen	29.91	759.7	29.96	760.9	28.2	— 2.1	79	calm			0		5			0	0		
PORTUGUESE.																			
Angra, Azores	29.73	755.2	29.89	759.3	51.4	10.8	73	nw.	13.6	6.1			2			0.496	12.6		Dr. J. A. Sampaio.
Campo Major	29.11	739.4	30.13	765.3	51.1	10.6	65	ene.	3.8	1.7			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.15	765.7	30.23	767.9	60.8	16.0	55	sw.	4.9	2.2			6			0	0		Capt. D. A. de Ounha.
Lisbon, Observatory	29.82	757.4	30.19	766.8	46.8	8.2	61	ne.	8.7	3.9			0			0	0		The Staff.
Ponta Delgada, Azores	29.85	758.3	29.93	760.1	56.8	13.8	73	nw.	19.9	8.9			3			0.217	5.5		
Saint Paul de Loando	29.71	754.5	29.91	759.6	81.0	27.2	90	nw.	0.7	0.3			4	sw.		0	0		
Serra da Estrella	25.30	642.7	30.22	767.6	32.0	0.0	80	sse.	24.8	11.1			7			0	0		
RUSSIAN.																			
Akmolinski	29.21	742.0	30.44	773.1	— 2.7	—19.3	94	wsw.	7	3			9 ku			Imap.	Imap.		Major K. Lasarew.
Archangel	29.78	756.3	29.86	756.8	20.1	— 6.6	95	calm	0	0			10			blank	blank		Capt. Sselliwerstow.
Ashurada	30.59	777 0	30.50	774.6	43.9	6.6	73	n.	11	5		0	8 ks			0	0		
Astrakhan	30.09	779.4	30.00	777.3	27.0	— 2.8	53	calm	0	0			0			0	0		Capt. Wisganow.
Baku	30.58	776.8	30.54	775.6	39.9	4.4	82	calm	0	0		0	3 k			0	0		
Barnaul	29.79	756.7	30.34	770.7	8.1	—13.3	84	sw.	4	2			10			Imap.	Imap.		Meteorological Obs'y.
Bielosersk	29.35	745.4	29.84	757.8	20.6	— 3.0	93	s.	7	3			10 s			0.126	3.2	light snow	
Dorpat	29.46	748.2	29.71	754 6	34.9	1.6	100	ssw.	11	5			10 n			0.106	2.7		Observatory.
Ekaterinburg	29.14	740.1	30.18	766.6	15.6	— 9.1	85	w.	18	8			10			0	0		Meteorological Obs'y.
Elisawetgrad	29.90	759.4	30.38	771.7	24.8	— 4.0	89	se.	4	2			10 n			0.004	0.1		
Irkutsk	28 64	727.4	30.49	774.4	— 2.6	—19.2	83	calm			0		0			blank	blank		
Kasalinsk	29.92	760.0	30.10	764.5	9.0	—12.8	62	nw.	2	1		0	0						
Kasan	29.98	761.4	30.27	768.8	19.9	— 6.7	79	s.	18	8			10			0.016	0.4		Observatory.
Kem	29.82	757.4	29.87	758.7	15.6	— 9.1	100	wnw.	4	2			10 ks			0	0	heavy cl'ds	
Kertch	30.45	773.5	30.47	774.0	21.4	— 5.9	98	calm	0	0			10 n			0	0		Lagorio & Sastyrez.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Kieff	29.54	750.2	30.21	767.2	32.7	0.4	94	sw.	9	4			10 ks; n			0	0		Observatory.
Koslov	29.74	755.4	30.32	770.1	13.1	—10.5	85	ssw.	9	4			10 s			0.130	3.3		
Libau	29.82	757.4	29.84	758.0	35.4	1.9	90	sw.	16	7			10			0.047	1.2		E. Quass.
Lugan	30.20	767.0	30.40	772.2	12.7	—10.7	90	ese.	2	1			10			0	0		Meteorological Obs'y.
Moscow	29.54	750.3	30.05	763.2	27.0	— 2.8	94	ssw.	5.6	2.5			10 n			0.059	1.5		Meteorological Obs'y
Nikolaiev	30.35	770.8	30.42	772.7	26.6	— 3.0	87	s.	13	6			10 n			0.010	0.4	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.06	763.4	30.14	765.6	—23.8	—31.0	68	calm	0	0			0			0	0		Iwanow.
Pekin, China	30.06	763.5	30.21	767.3	28.9	— 1.7	38	calm	0	0		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	30.24	768 2	30.63	778.1	18.7	— 7.4	71	sw.	1.1	0.5		7 ck	0			0	0		
Petrozavodsk	29.57	751.0	29.77	756.2	30.2	— 1.0	92	calm	0	0			10			0.134	3.4	light clouds	Dr. Bergmann.
Pinsk	29.58	751.4	30.10	764.4	39.6	4.2	80	ssw.	11	5			10 s			0	0	light clouds	
Poti	30.35	770.9	30.37	771.4	50.0	10.0	79	sse.	4	2		0	2 k			0	0		
St. Petersburg	29.70	754.4	29.72	754.8	34.2	1.2	92	sse.	9	4			10 n			0.016	0.4		Central Physical Obs'y.
Samarkand	27.95	709.8	30.60	777.3	25.3	— 3.7	62	calm	0	0		0	0						
Semipalatinsk	29.72	754.9	30.45	773.4	3.9	—15.6	76	se.	9	4			9			0	0		Major Lasarew.
Sevastopol	30.17	766.2	30.41	772.3	34.2	1.2	78	n.	7	3			9 n			0	0		
Staroi Bykhov	29.67	753.5	30.15	765.7	33.8	1.0	90	sse.	7	3			10			0.035	0.9		
Tashkend	28.86	733.0	30.69	779.5	21.2	— 6.0	73	s.	7	3			1 cs	0		0	0		Terch, A. M.
Tiflis	29.01	736.8	30.49	774.5	38.8	3.8	52	calm	0	0			1 cs	0		0	0		Physical Observatory.
Vernoe	27.83	706.8	30.57	776.4	14.2	— 9.9	66	calm	0	0		0	8 k						
Viatka	29.39	746 5	30.06	763.6	18.9	— 7.3		ssw.	4	2			10			0.024	0.6		
Vladivostock	30.01	762.3	30.08	764.0	10.4	—12.0	48	calm	0	0			0			0	0		
Warsaw	29.63	752.7	30.07	763.7	39.4	4.1	85	sw.	2	1			10			0.236	6.0	heavy cl'ds.	Astronomical Obs'y.
Wilna	29.58	751.2	30.00	762 1	39.7	4.3	79	ssw.	4	2			10			0	0		Berg, Assistant.
Yeniseisk	30.02	762.6	30.35	770.8	— 5.6	—20.9	86	ne.	2	1			6			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.70	754.4	44	6.7	92	sse.			6	5	5	sse.		0.1	3.	d. clouds	J. Youngclauss.
North Unst			29.75	755.5				sw.			4		7						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.07	763.8	30.17	766.4	56.1	13.4	74	se.	2.0	0.9		0	1 k			0	0		Antonio Reve, Director.
Bilbao, Met. Obs'y	30.24	768.2	30.30	769.7	53.6	12.0	67	se.	1.1	0.5		2	2	se.		0.197	5.0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.22	691.3	30.32	770.1	39.6	4.2	80	n.	4.3	1.9		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.93	709.4	30.21	767.3	48.9	9.4	69	ne.	4.3	1.9		0	0			0.004	0.1	clear	The Staff.
Murcia, Met. Obs'y	30.03	762.7	30.16	766.0	55.4	13.0	82	sswv.	2.7	1.2		3	7	e.		0	0	covered	Olayo Diaz, Director.
Oviedo	29.37	745.9	30.24	768.2	36.0	2.2	97	w.	3.7	1.7		2 c	2 ks	e.	e.	0	0	fair	Prof. L. G. Fradss.
Santiago, Met. Obs'y	29.22	742.3	30.13	765.4	49.6	9.8	64	w.	3.8	1.7			0			0.047	1.2	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.85	758.2	29.91	759.6	78.2	25.7	73	e.	2.2	1.0			1 k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.01	762.1	30.11	764.7	61.7	16.5	64	e.	15.0	6.7		0	4		e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.09	764.3	30.18	766.6	76.6	24.8	76	ne.	18.1	8.1		4 k	4 kn	ne.	ne.	0.276	7.0	cloudy	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.94	760.4	29.98	761.4	17.6	— 8.0	100	ne.			4		10			0	0		
Umea	29.88	759.0	29.93	760.3	12.6	—10.8	93	ne.			4		10			0	0		
Hernosand	29.79	756.7	29.84	758.0	21.6	— 5.8	85	ne.			4		10			0.138	3.5		
Stockholm	29.03	752.6	29.81	757.1	30.2	— 1.0	84	n.			2		10			0.118	3.0		
Wisby	29.74	755.5	29.80	757.0	35.6	2.0	89	nw.			4		10			0.126	3.2	raining	
Sub-series.																			
Upsala	29.71	754.6	29.80	756.8	27.9	— 2.3	96	nw.	17.4	7.8			10			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.84	732.4	30.31	769.9	38.1	3.4	97	n.			3		10			0.465	11.9	covered	The Observatory.
TURKISH.																			
Constantinople			30.35	770.8	49.5	9.7	68	ese.	4	2.0			1		ne.	0	0		The Observatory.
Valona			30.36	771.1	57.7	14.3		sw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.16	766.0	61.0	16.1	69	nw.			1		5 k		sw.	0.07	1.8		Prof. C. V. A. van Dyck.
Samokov, Bulgaria																			Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.82	757.4	29.91	759.7	44	6.7	82	w.	4	1.8			10n			1.24	31.5	light rain	J. O. Barnes.
Alpena, Michigan	29.55	750 6	30.26	768.6	3	—16.1	72	w.	12	5.4		0	0			0.21	5.3	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.02	635 5	30.12	765.0	14	—10.0	70	ne.	1	0.4		0	0			0	0	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	27.52	699.0	30.56	776.2	—17	—27.2	41	sw.	16	8.0		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.15	740.4	30.37	771.4	45.0	7.2	100	se.	5	2.2			fg.			0.04	1.0	dense fog	H. C. Smyth.
Atlantic City, New Jersey	30.04	763.0	30.05	763.3	43	6.1	100	sw.	12	5.4			fg.			0	0	dense fog	Jas. M. Watson.
Augusta, Georgia	30.18	766.6	30.38	771 6	65	18.3	93	calm	0	0			10 s		sw	0.04	1.0	cloudy	John Healy.
Baltimore, Maryland	29.99	761.7	30.04	763.0	62	16.7	84	sw.	20	8.9		0	9 ks; s		sw.	0	0	cloudy	Geo W Felger.
Barnegat, New Jersey	30.00	762.0	30.02	762.5	44.0	6.7	100	sw.	21	9.4			fg.			0.05	1.3	dense fog	G. A. Hill.
Behring Id., Behring Sea	29.23	742 4	29.25	742.9	33.4	0.8		se.	18	8.0			10 n			0.19	4.8	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.95	735.3	30.68	779.3	—22	—30.0	100	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.57	700.3	30.57	776.5	— 5	—20.6	65	sw.	15	6.7		0	0			0	0	clear	S. Wheaton.
Billings, Montana	27.12	688.8			—24	—31.1		w.	32	14.3		0	0			0	0	clear	T. Gibson.
Bismarck, Dakota	28.52	724.4	30.50	774.7	—20	—32.2	100	w.	3	1.3		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.96	761.0	30.00	762.0	45	7.2	100	sw.	22	9.8			fg.			0.67	17.0	dense fog	J. T. Elker.
Boise City, Idaho	27.66	702.6	30.02	777.7	— 7	—21.7	91	calm	0	0		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.81	757.2	29.97	761 2	23.0	— 5.0	88	nw.	4	1.8			10n; fg			0.45	11.4	sleeting	O. B. Cole.
Brownsville, Texas	30.20	767.1	30.25	768 3	33.0	0.6	100	n.	16	7.2			10 n		n.	0.03	0.8	light rain	M. McCarty.
Buffalo, New York	29.32	744.7	30.12	765.0	29	— 1.7	93	w.	18	8.0			10 s		w.	1.20	32.0	cloudy	W. Finn.
Buford, Fort, Dakota	28.33	719.6	30.51	774.9	—23	—30.6	100	w.	1	0.4		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.47	748.5	29.78	756.4	39.0	3.9	89	s.	14	6.3			10 s		w.	0.47	11.9	cloudy	D. N. Farnell.
Cairo, Illinois	30.11	764.8	30.53	775.4	20.0	— 6.7	84	ne.	14	6.3			10 s		ne.	1.78	45.2	cloudy	W. H. Ray.
Cape Henry, Virginia	30.23	767.8	30.25	768.3	67	19.4	100	sw.	20	8.9		0	8 s		s.	0.02	0.5	cloudy	A. K. Alderson.
Cape May, New Jersey	30.02	762.5	30.06	763.5	52.0	11.1	96	s.	31	13.9			fg.			0	0	dense fog	W. E. Smith.
Cape Mendocino, California																			J. J. McLean.
Cedar Keys, Florida	30.30	769.6	30.32	770.1	67	19.4	90	e.	7	3.1		0	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.70	754.4	30.57	776.5	8.5	—13.1	68	nw.	12	5.4		0	4 s		nw.	0.37	9.4	fair	L. A. Welsh.
Charleston, S. Carolina	30.32	770.1	30.38	771.6	62.5	16.9	100	sw.	4	1.8		7 c	fg.			0	0	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.45	748.0	30.34	770.6	58.0	14.4	100	sw.	7	3.1			fg.			0.04	1.0	dense fog	D. O'Donoghue.
Chattanooga, Tennessee	29.47	748.5	30.33	770.4	60.0	15.6	96	s.	7	3.1			10n; fg		sw.	0.01	0.3	light rain	B. L. Goulding.
Cheyenne, Wyoming	23.98	609.1	30.23	767.8	—21.2	—29.6		nw.	1	0.4		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.72	754.9	30.47	773.9	8.0	—13.3	76	w.	6	2.7		0	0			0.19	4.8	clear	J. Mitchell.
Chincoteague, Virginia	30.08	764.0	30.10	764.5	49	9.4	100	s.	18	8.0			fg.			0	0	dense fog	C. F. Dickens.
Cincinnati, Ohio	29.71	754.6	30.40	772.1	32	0.0	78	w.	12	5.4			10 s		sw.	1.40	35.6	cloudy	R. B. Watkins.
Cleveland, Ohio	29.52	749.8	30.31	769.9	24.5	— 4.2	88	w.	20	8.9			10 s		nw.	2.09	53.1	cloudy	J. B. Newlin.
Coleman City, Texas	28.58	725.9	30.46	773.7	6	—14.4	76	n.	24	10.7			10 n		n.	0.04	1.0	light snow	L. Dorman.
Columbus, Ohio	29.42	747.3	30.32	770.1	33	0.6	68	nw.	20	8.9			10 s		nw.	1.42	36.1	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.47	723.1	30.49	774.4	6.0	—14.4	76	n.	12	5.4			10 n			0.08	2.0	light snow	J. McGlone.
Davenport, Iowa	29.87	758.7	30.57	776.5	— 3	—19.4	65	nw.	10	4.5		0	0			0.07	1.8	clear	R. R. Martin.
Davis, Fort, Texas	25.26	641.6	30.22	767 6	17	— 8.3	46	n.	4	1.8			10 s			0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.91	734.3	30.72	780.3	—23	—30.6	64	calm	0	0		0	0			0	0	clear	D. Moore.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.53	648.5	30.45	773.4	—11	—23.9	63	w.	1	0.4		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.07	763.8	30.09	764.3	59	15.0	87	sw.	41	18.3		3 ck	2 ks	sw.	sw.	0	0	fair	T. S. Townsend.
Denison, Texas	29.70	754.4	30.54	775.7	5.0	—15 0	100	n.	10	4.5			10 s			0.06	1.5	cloudy	J. W. Byram.
Denver, Colorado	24.79	629.7	30.31	769.9	—15.0	—26.1	55	s.	2	0.9		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.72	754.9	30.69	779.5	—19	—28.3		nw.	5	2.2		0	0			0.06	1.5	clear	F. W. Conrad.
Detroit, Michigan	29.58	751.3	30.33	770.4	19.8	— 6.8	84	nw.	8	3.6			10 s		nw.	0.64	16.3	cloudy	E. R. Brace.
Dodge City, Kansas	27.89	708.4	30.63	778.0	—10	—26.7	100	calm	0	0		0	0			0	0	clear	V. P. Temple.
Dubuque, Iowa	29.81	757.2	30.57	776.5	— 7.3	—21.8	29	nw.	4	1.8		0	0			0.20	5.1	clear	J. Harvey Smith.
Duluth, Minnesota	29.66	753.4	30.47	773.9	—20	—28.9	100	s.	3	1.3		0	2 s			0.04	1.0	clear	N. B. Conger.
Eagle Pass, Texas	29.61	752.1	30.45	773.4	22.0	— 5.6	87	n.	13	5.8			10 n			inap.	inap.	light rain	F. Belford.
Eagle Rock, Idaho	25.43	645.9	30.33	770.4	—36	—37.8	100	n.	8	3.6		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.93	760.2	30.00	762 0	24.5	— 4.2	100	e.	20	8.9			10n;fg		e.	0.30	7.6	sleeting	D. C. Murphy.
Elliott, Fort, Texas	27.62	701.5	30.52	775.2	—10	—23.3	15.	ne.			2		10 s		ne.	0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.26	667.5	30.16	766.1	33.0	0.6	71	nw.	4	1.8			10 s		nw.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.45	748.0	30.22	767.6	28	— 2.2	77	w.	20	8.9			10 s		w.	3.35	85.1	cloudy	Peter Wood.
Escanaba, Michigan	29.64	752.8	30.30	771.1	— 3.0	—19.4	79	w	4	1.8		0	2 s			0.06	1.5	clear	George Heathcote.
Fredericksburg, Texas	28.55	725.2	30.35	770.9	14	—10.0	83	n.	12	5.4			10 s			0.02	0.5	cloudy	Frank Halwegler.
Galveston, Texas	30.22	767.6	30.27	768.8	35	1.7	100	n.	30	13.4			10 n			0.03	0.8	light rain	E. O'C. MacInernay.
Grand Haven, Michigan	29.07	753.6	29.38	771.6	17.0	— 8.3	83	w.	21	9.4			10 s			0.05	1.3	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.23	640.8	30.09	764.3	29	— 1.7	43	ne.	2	0.9		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.33	770.4	30.35	770.9	53	11.7	100	s.	16	7.2		9 k	fg.	sw.		0	0	cloudy	R. M. Crawford.
Helena, Montana	26.14	663.9	30.54	775.7	—24	—31.1	100	calm	0	0		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.58	751.3	30.63	778.0	0	—17.8	68	n.	14	6.3			10 s			inap.	inap.	cloudy	J. P. Sherry.
Huron, Dakota	29.16	740.7	30.68	779.3	—24.8	—31.6		w.	6	2.7		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.64	752.8	30.49	774.4	20	— 6.7	84	nw.	6	2.7			10 s			2.80	71.1	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.27	768.8	30.30	769.6	26.0	— 3.3	100	n.	24	10.7			10 n		n.	0.02	0.5	sleeting	I. A. Reed.
Jacksboro, Texas	29.32	744.7	30.56	776.2	3	—16.1	72	n.	12	5.4			10 s			inap.	inap.	cloudy	D. J. Carr.
Jacksonville, Florida	30.32	770.1	30.37	771.4	63	17.2	93	calm	0	0		0	fg.			0.03	0.8	clear	J. W. Smith.
Keogh, Fort, Montana	27.85	707.4	30.53	775.4	—28	—33.3	100	calm	0	0		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.83	757.7	30.53	775.4	— 6.0	—21.1	61	nw.	6	2.7		0	0			0.22	5.6	clear	F. Z. Gosewisch.
Key West, Florida	30.19	766.8	30.21	767.3	74.5	23.6	82	e.	17	7.6		0	3 s		se.	inap.	inap.	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.32	770.1	30.34	770.6	60	15.6	93	sw.	17	7.6			10 n		sw.	0.08	2.0	light rain	H. Mc P. Baldwin.
Knoxville, Tennessee	29.18	741.2	30.26	768.6	65.2	18.4	79	sw.	16	7.2			10 s		sw.	inap.	inap.	threatening	J. A. Cody.
La Crosse, Wisconsin	29.74	755.4	30.58	776.7	—15	—26.1	100	w.	8	3.6		0	0			inap.	inap.	clear	S. C. Emery.
Leavenworth, Kansas	29.82	757.4	30.77	781.5	—10	—23.3	72	nw.	2	0.9		0	0			inap.	inap.	clear	A. W. Browne.
Lewiston, Idaho	30.02	762.5	30.89	784.6	—12.0	—24.4	47	calm	0	0		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	30.16	766.1	30.48	774.2	27	— 2.8	77	n.	11	4.9			10 s		n	0.67	17.0	cloudy	W. U. Simons.
Los Angeles, California	29.79	756.7	30.19	766.8	32	0.0	68	ne.	10	4.5		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.83	757.7	30.42	772.7	29	— 1.7	77	nw.	14	6.3			10 s		w.	1.03	26.2	cloudy	L. M Dey.
Lynchburg, Virginia	29.48	748.8	30.20	767.1	60	15.6	87	s.	6	2.7		0	7k; s		s.	0.05	1.3	fair	Louis Duane.
Mackinaw City, Michigan	29.57	751.1	30.27	768.8	2.0	—16.7	72	w.	13	5.8		0	0			0.11	2.8	clear	F. R. Day.
Macon, Fort, North Carolina	30.34	770.6	30.35	770.9	57.0	13.9	93	sw.	16	7.2			10 s		sw.	0	0	cloudy	William Daly.
Madison, Wisconsin	29.40	746.7	30.48	774.2	— 7	—21.7	58	nw.	10	4.5		0	0			0.04	1.0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.78	654.8	30.32	770.1	— 9	—22.8	61	n.	36	16.1		0	0			0	0	clear	F. Burke.
McKavett, Fort, Texas	28.04	712.2	30.42	772.7	8	—13.3	100	n.	12	5.4			10 s			0.04	1.0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.50	749.3	30.28	769.1	1	—17.2	72	w.	4	1.8		0	0			0.11	2.8	clear	J. Gilligan.
Memphis, Tennessee	30.12	765.0	30.47	773.9	29	— 1.7	100	nw.	12	5.4			10 s			1.03	26.2	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.66	753.4	30.46	773.7	2	—16.7	72	nw.	13	5.8		0	0			0.02	0.5	clear	W. Line.
Missoula, Fort, Montana	27.25	692.1	30.68	779.3	—27	—32.8	100	calm	0	0		0	0			0	0	clear	I. H. Young.
Mobile, Alabama	30.24	768.1	30.28	769.1	65	18.3	100	se.	1	0.4			10s;fg		se.	0	0	cloudy	C. A. Read.
Montgomery, Alabama	30.05	763.3	30.29	769.4	63.7	17.6	98	s.	4	1.8			10s;fg			0	0	cloudy	J. B. McLaughlin
Moorhead, Minnesota	29.44	747.8	30.54	775.7	—33	—36.1	100	calm	0	0		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.24	742.7	30.31	769.9	43.5	6.4	83	n.	16	7.2			10 n		n.	0.45	11.4	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.49	596.6	30.11	764.8	32.0	0.0	100	w.	70	31.2			10n;fg		w.	1.03	26.2	sleeting	S. W. Beall.
Nashville, Tennessee	29.82	757.4	30.43	772.9	38.0	3.3	89	nw.	7	3.1			10 n		nw.	0.68	17.3	light rain	L. N. Jesunofsky.
New Haven, Connecticut	29.82	757.4	29.94	760.5	38	3.3	100	w.	2	0.9			10n;fg			0.57	14.5	light rain	J. H. Sherman.
New London, Connecticut	29.94	760.5	29.98	761.5	40	4.4	100	s.	16	7.2			fg.			1.03	26.2	dense fog	J. G. Lynch.
New Orleans, Louisiana	30.18	766.6	30.24	768.1	67.3	19.6	92	se.	3	1.3			fg.			0	0	dense fog	L. Dunne.
Newport, Rhode Island	29.93	760.2	29.98	761.5	42.0	5.6	100	sw.	15	6.7			10n;fg			1.00	25.4	light rain	W. McGillivray.
New York, New York	29.79	756.7	29.98	761.5	55	12.8	96	s.	16	7.2			10s;fg		s.	0.06	1.5	cloudy	J. B. Merrill.
Norfolk, Virginia	30.23	767.8	30.26	768.6	60	18.9	90	sw.	12	5.4		0	8 ks		sw.	0.02	0.5	cloudy	Wm. Davis.
North Platte, Nebraska	27.48	698.0	30.58	776.7	—26.4	—32.4	75	w.	6	2.7		0	0			0.01	0.3	clear	E. F. Brady.
Olympia, Washington Ty.	30.54	775.7	30.58	776.7	11.0	—11.7	61	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.45	748.0	30.72	780 3	—17.5	—27.5		n.	7	3.1		0	0			0.02	0.5	clear	A. Pollak.
Ooglamie, Alaska	30.24	768.1	30.26	768.6	8.0	—13.3		w.	36	16.1		0	3 s			0.06	1.5	clear	P. H. Ray.
Oswego, New York	29.57	751.1	29.92	760.0	29.0	— 1.7	94	nw.	4	1.8			10 n			0.88	22.4	light rain	J. G. Linsley.
Palestine, Texas	29.89	759.2	30.47	773.9	17.0	— 8.3	83	n.	12	5.4			10 n		nw.	0.14	3.6	light snow	L. M. Pindell.
Pensacola, Florida	30.29	769.4	30.32	770.1	61.1	16.2	100	e.	6	2.7			fg.			0.01	0.3	dense fog	M. McGauran.
Philadelphia, Pa	29.89	759.2	30.00	762.0	59	15.0	93	sw.	10	4.5			10s;fg		sw.	0.02	0.5	cloudy	E. M. Mattison.
Pike's Peak, Colorado	17.35	440.7	30.07	763.8	— 7	—21.7	74	w.			2		10 ks		w.	0	0	cloudy	H. Hall.
Ploche, Nevada	23.91	607.3	30.07	763.8	5	—15.0	79	nw	6	2.7		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.34	745.2	30.20	767.1	39.0	3.9	89	w.	16	7.2			10 n		w.	0.68	17.3	light rain	W. A. Reid.
Poplar River, Montana	28.29	718.6	30.04	778.2				nw.			1	0	0			0	0	clear	W. B. Maxwell.
Port Eads, Louisiana	30.24	768.1	30.25	768.3	61.0	16.1	93	se.	4	1.8		0	fg.			0	0	clear	H. B. Boyer.
Port Huron, Michigan	29.59	751.6	30.32	770.1	12.3	—10.9	89	w.	12	5.4		3 c	0			0.58	14.7	clear	W. O. Bailey.
Portland, Maine	29.90	759.4	29.95	760.7	21.0	— 6.1	84	nw.	8	3.6			10 n			0.74	18.8	sleeting	W. W. Elchelberger.
Portland, Oregon	30.56	776.2	30.63	778.0	10.0	—12.2	66	ne.	6	2.7			0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					59	15.0	100	s.			4	2 k	6ks;fg		sw.	0.02	0.5	cloudy	F. S. Coburn.
Prescott, Arizona	24.70	627.4	30.06	763.5	17.3	— 8.2	70	calm	0	0			0			0	0	clear	Jas Cassidy.
Provincetown, Mass.	29.92	760.0	29.95	760.7	34.5	1.4	100	sw.	4	1.8			fg.			1.03	26.2	dense fog	P. T. Jenkins.
Punta Rasa, Florida	30.25	768.3	30.20	768.6	68.5	20.3	92	e	14	6.3		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.92	760.0	30.29	769.4	25	— 3.9	04	n.	6	2.7		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.32	744.7	30.02	762.5	29	— 1.7	100	nw.	10	7.2			10n;fg		nw.	0.55	14.0	light rain	E. W. McGann
Roseburg, Oregon	29.84	757.9	30.41	772.4	12.5	—10.8	80	nw.	6	2.7		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	30.18	766.6	30.26	768.6	27.5	— 2.5	77	nw.	7	3.1		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.99	761.7	30.63	778.0	7.5	—13.6	87	nw.	8	3.6			10 s		nw.	0.53	13.5	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.04	778.2	30.08	779.3	16	— 8.9	100	se.	16	7.2		0	5 s		e.	0	0	fair	A. P. Leavitt.
St. Paul, Minnesota	29.63	752.6	30.57	776.5	—22.0	—30.0	100	w.	5	2.2		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.42	747.3	30.38	771.6	—32	—35.0	100	sw.	4	1.8		0	0			0	0	clear	C. B Dilley.
Salt Lake City, Utah	25.74	653.8	30.30	769.6	5	—15.0	76	calm	0	0		0	0			inap.	inap.	clear	J. Craig.
San Antonio, Texas	29.04	752.8	30.36	771.1	22.0	— 5.6	87	n.	8	3.6			10 s		n.	0.02	0.5	cloudy	T. J. Kenan.
San Diego, California	30.09	764.3	30.10	766.1	45.2	7.3	56	e.	5	2.2			10 s			0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.61	752.1	30.33	770.4	26	— 3.3	88	nw.	20	8.9			10 s			1.21	30.7	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.93	760.2	29.96	761.0	57.5	14.2	93	sw.	30	13.4			10 k		sw.	0.06	1.5	cloudy	B. A. Blundon.
San Francisco, California	30.15	765.8	30.22	767.6	36.5	2.5	50	ne.	5	2.2		0	3 s		w.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.14	587.7	30.22	767.6	23	— 5.0	61	se.	6	2.7		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.28	769.1	30.37	771.4	62.5	16.9	88	s.	4	1.8		0	fg.			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.69	677.9	30.54	775.7	—13	—25.0	50	w.	9	4.0		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.14	765.5	30.38	771.6	20	— 3.3	100	nw.			2		10 n		nw.	0.21	5.3	sleeting	E. N. Meekins.
Sill, Fort, Indian Territory	29.33	745.0	30.04	778.2	— 3.5	—19.7	67	n.	17	7.6			10 ks		s.	inap.	inap.	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.26	616.2	30.11	764.8	23.5	— 4.7	72	nw.	2	0.9		0	0			0	0	clear	N. D. Lane.
Sitka, Alaska	30.55	776.0	30.62	777.7	38.1	3.4	73	e.	5	2.2			10 s		e.	0	0	cloudy	H. U. Jones.
Smith, Fort, Arkansas	30.08	764.0	30.58	776.7	10.0	—12.2	89	w.	8	3.6			10 s			0.14	3.6	cloudy	F. W. Fickett.
Smithville, North Carolina	30.4 6	773.7	30.50	774.7	54	12.2	86	se.	8	3.6		1 c	4 s		sw.	0	0	fair	J. B. Campbell.
																			O. Parker.

STATIONS.	Barometer: Corrected for instrumental error and for temperature.		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p.sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—CONT'D.																			
Spokane Falls, Wash. Ter.	28.59	726.2	30.72	780.3	—18	—27.8	48	e.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	H. Clifford.
Springfield, Illinois.....	29.06	738.1	30.59	777.0	6.7	—14.1	76	nw.	5	2.2	.....	0	0	.....	.....	0.59	15.0	clear.....	T. B. Jennings.
Springfield, Missouri.....	29.06	738.1	30.58	776.7	1.5	—16.9	83	n.	10	4.5	.....	.....	10 s	.....	nw.	0.31	7.9	cloudy.....	J. H. Bryce.
Starkville, Miss.....	29.85	758.2	30 35	770.9	45	7.2	96	n.	12	5.4	.....	.....	10 n	.....	n.	0.34	8.6	light rain ...	C. Dill.
Stevenson, Fort, Dakota.....	28.42	721.9	30.44	773.2	—28	—33.3	100	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	A. Schneider.
Stockton, Fort, Texas	27.26	692.4	30.39	771.9	9	—12.8	80	n	8	3.6	.....	.....	10 s	.....	n.	0	0	cloudy.....	A. J. Warren.
Thatcher's Island, Mass.....	29.91	759.7	29.97	761.2	27.0	— 2.8	100	n.	8	3.6	.....	.....	10n fg	.....	.....	0.83	21.1	light rain.....	G. Liebmann *
Thomas, Camp, Arizona.....	27.33	694.2	30.16	766.1	23	—5.0	88	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio.....	29.58	751.3	30.32	770.1	25	— 3.9	73	w.	9	4.0	.....	.....	10 ks	.....	w.	1.76	44.7	cloudy.....	A. Buell.
Tucson, Arizona.....	27.62	701.5	30.10	764.5	29	— 1.7	80	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon.....	30.59	777.0	30.97	786.6	—22	—30.0	100	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Daly.
Verde, Fort, Arizona.....	.....	.....	.....	.....	21.4	— 5.9	48	nw.	.....	.....	2	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	30.07	763.8	30.34	770.6	45.0	7.2	81	nw.	10	4.5	.....	.....	10 n	.....	nw.	0.03	0.8	light rain.....	James Keneally.
Visalia, California.....	29.81	757.2	30.19	766.8	30.8	— 0.7	89	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy.....	O. D. Stewart
Washakie, Fort, Wyoming..	24.49	622.0	30.25	768.3	—48.6	—44.8	.....	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	T. M. Ambler.
Washington, D. C.....	29.95	760.7	30.07	763.8	01.5	16.4	85	sw.	12	5.4	.....	9 k	0	sw.	.....	0	0	cloudy.....	B. M. Parsell.
West Las Animas, Colorado	26.25	666.7	30.38	771.6	—21.5	—29.7	100	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg
Williamsport, Pa.....	29.37	746.0	30.00	762.0	40	4.4	86	calm	0	0	.....	.....	10 n	.....	.....	0.29	7.4	light rain.....	B. F. Hough.
Wilmington, N. Carolina....	30.32	770.1	30.38	771.6	66	18.9	100	sw.	10	4.5	.....	.....	10 s	.....	w.	0.15	3.8	cloudy.....	Samuel A. Haney.
Winnemucca, Nevada.....	25.72	653.3	30.24	768.1	— 4.0	—20.0	83	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	J. Grover.
Yankton, Dakota.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. H. Atfield.
Yuma, Arizona.....	29.96	761.0	30.10	764.5	34.0	1.1	82	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia.....	21.98	558.3	.....	.....	53.0	11.7	60	sw.	7	3.1	.....	.....	9 ks	.....	nw.	0	0	cloudy.....	Joaquin Gomez.
Kingston, Jamaica, W. I.....	30.07	763.8	30.08	764.0	70	21.1	90	calm	0	0	.....	0	1 s	.....	e.	0	0	clear	Robert Johnston.
Paramaribo, S. A.....	30.07	763.8	30.07	763.8	75	23.9	86	se.	.....	.....	2	.....	8 ks	.....	e.	0.400	10.2	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.32	744.7	29.87	758.7	81	27.2	85	calm	.....	.....	0	5 ck	2 k	calm	calm	0	0	fair.....	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.....	.....	.....	.....	.....	76.5	24.7	88	ne.	.....	.....	4	0	2 ks	.....	ne.	0	0	clear.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.67	779.0	30.73	780.5	33	0.6	78	sw.	.....	.....	2	0	5 k	.....	.....	0.07	1.8	.....	W. J. Fisher.
St. Thomas, W. I.....	30.07	763.8	30.20	767.1	76	24.4	74	e.	.....	.....	.....	1 k	3 k	e.	e.	0.22	5.6	fair.....	Aug. Walloe.
Havana, Cuba.....	30.10	764.5	30.16	766.1	70.9	21.6	87	e.	7	3.1	.....	0	1 k	.....	e.	0	0	clear.....	Benito Vines, S. J.
York Factory H. B. A	30.14	765.5	30.21	767.3	—27.0	—32.8	.....	w.	12	5.4	.....	3 k	2 s	sw.	w.	0	0	fair.....	Fortesque & Wood.

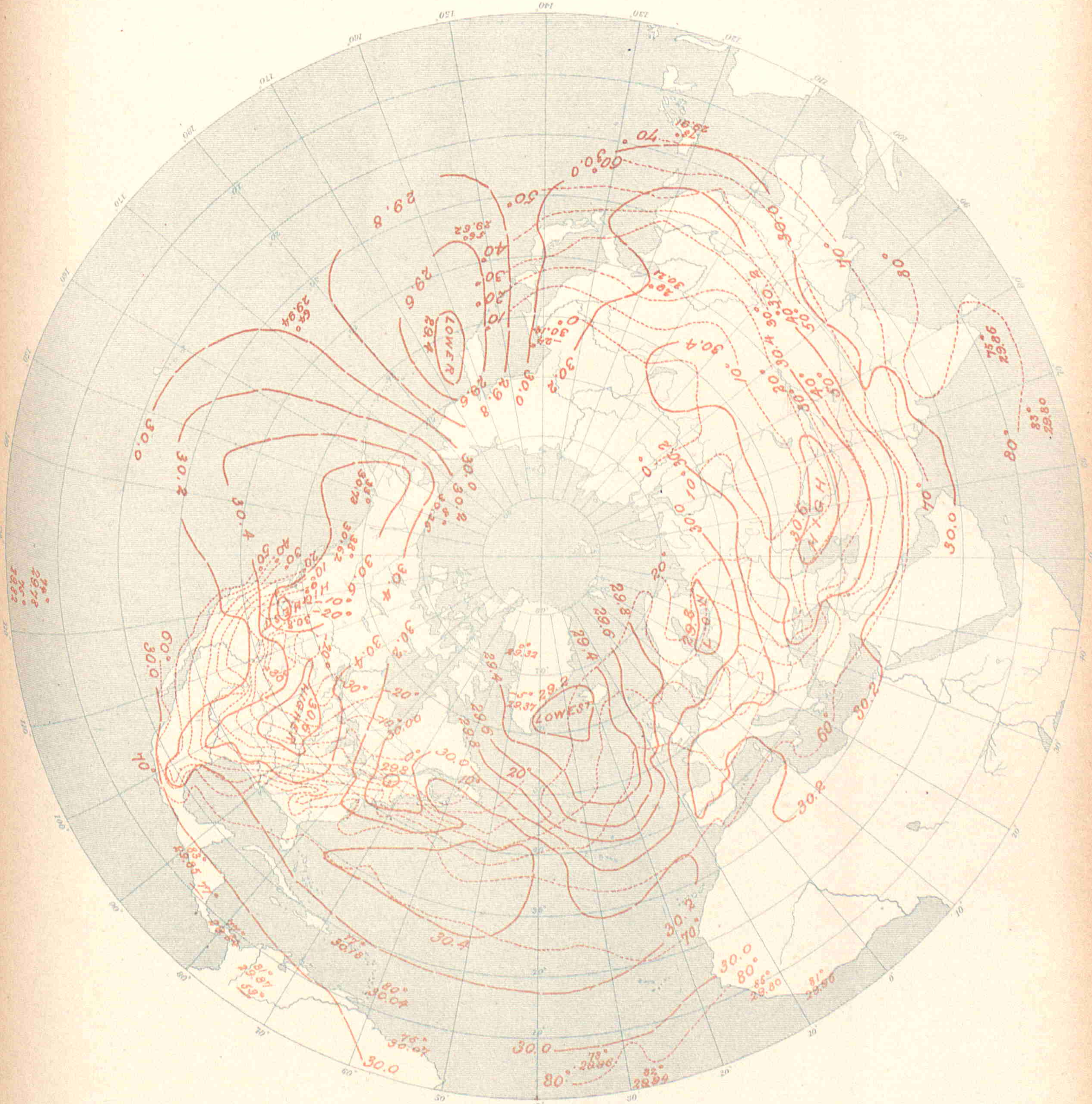
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell. Character.	Sea-swell. Direction from	Weather.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. Dock-Yard, Bermuda, W. I.....	30.53	775.4	65	18.3	73	ssw.	.....	.....	1	.....	8	ssw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Iron Duke, N. 36° 00' E. 14° 44'.....	30.32	770.1	64	17.8	62	var.	.....	.....	1	.....	2	wnw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Monarch Port Said, Egypt	30.21	767.3	71	21.7	57	wsw.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Tyne, N. 4° 15', W. 7° 12'	29.96	761.0	81	27.2	87	ssw.	.....	.....	2	.....	7	ssw.	.....	.....	.....	sm'h	.....	misty.
U. S. Navy Yard, Portsmouth, N. H*.....	29.97	761.2	23	— 5.0	?	calm	0	0	.....	.....	10	.....	ne.	blank	blank	.....	.....	misty.
U. S. S. Alliance, N. 22° 40', W. 85° 15'.....	30.15	765.8	77	25.0	95	ene.	.....	.....	3-4	.....	2	.....	.....	light	light	.....	.....	clear.
U. S. S. Enterprise, St. Vincent, Cape Verd Islands*..	30.10	764.5	71	21.7	80	ne.	.....	.....	4	.....	5	.....	ne.	.....	.....	sm'h	.....	fair.
U. S. S. Jamestown, N. 27° 01' W. 51° 10'.....	30.45	773.4	71	21.7	67	e.	.....	.....	6	.....	5	.....	e.	.....	.....	r'gh	e.	fair.
U. S. S. Kearsarge, Curacoa Island, W. I.....	30.02	762.5	79	26.1	95	ene.	.....	.....	4	.....	5	.....	ene.	.....	.....	.....	.....	fair.
U. S. S. Lancaster, N 36° 19', W. 4° 29'.....	30.14	765.5	59	15.0	100	e.	.....	.....	4	.....	10	.....	e.	.....	.....	sm'h	.....	cloudy.
U. S. S. Nipsic, N. 22° 54', W. 34° 23'.....	30.33	770.4	71	21.7	62	ne.	.....	.....	3	.....	5	.....	.....	.....	.....	long	ene.	fair.
U. S. S. Portsmouth, off South Point, Barbadoes, W.I.	30.10	764.5	78	25.6	86	ne.	.....	.....	5	.....	5	.....	ne.	.....	.....	mod.	ene.	fair.
U. S. S. Quinnebaug, Villefranche, France	30.20	767.1	56	13.3	80	calm	.....	.....	0	.....	10	.....	calm	.....	.....	.....	.....	overcast.
U. S. S. St. Louis, League Island, Pa.....	30.04	763.0	54	12.2	100	sw.	20	8.9	.....	.....	2	.....	sw.	0.02	0.5	.....	.....	clear.
U. S. S. Tennessee, St. Thomas Island, W. I*.....	30.15	765.8	78	25.6	82	ene.	12	5.4	.....	.....	8	.....	.....	0.16	4.1	.....	.....	fair.
U. S. S. Vandalia, Cape Haytien, Hayti, W. I*.....	30.14	765.5	78	25.6	95	ese.	.....	.....	1	.....	1	.....	calm	.....	.....	.....	.....	clear.
U. S. S. Vantic, Belize, British Honduras.....	30.05	763.3	77	25.0	95	ene.	.....	.....	3	.....	5	.....	.....	.....	.....	.....	.....	fair.
S. S. British Crown, N. 38° 51', W. 69° 40'†.....	30.20	767.1	59	15.0	.....	s.	.....	.....	5	.....	10	.....	s.	0	0	mod.	s.	overcast
S. S. British Prince, N. 51° 05', W. 20° 57'†.....	29.51	749.5	48	8.9	.....	sse	.....	.....	5	.....	10	.....	.....	4 h'r	4 h'r	h'vy	w.	raining.
S. S. Illinois, N. 42° 40', W. 58° 25'.....	30.12	765.0	35	1.7	90	se.	.....	.....	4	.....	10	.....	se.	.....	.....	mod.	w.	overcast.
S. S. Lord Clive, N. 51° 24', W. 25° 20'	.....	.....	.....	.....	.....	nw.	.....	.....	4	.....	10	.....	.....	snow	snow	mod	sw.	overcast.
S. S. Lord Gough, Philadelphia, Pa.....	29.99	761.7	59	15.0	.....	sw.	.....	.....	9	.....	8	.....	sw.	0	0	.....	.....	cloudy.
S. S. Pennsylvania, N. 48° 43', W. 37° 53'†.....	29.56	750.8	35	1.7	90	nnw.	.....	.....	7	.....	10	.....	n.	snow	snow	r'gh	wnw.	squally.
S. S. Circassian, N. 54° 55', W. 20° 00' *.....	29.34	745.2	46	7.8	92	s.	.....	.....	5	.....	10	.....	ssw.	2 h'r	2 h'r	3	sw.	raining.
S. S. Manitoban, N. 53° 44', W. 24° 20'.....	29.30	744.2	42	5.6	.....	s.	.....	.....	4	.....	8	.....	sw.	6 h'r	6 h'r	cross	s;w.	cloudy.
S. S. Scandinavian, N. 42° 52', W. 60° 53'.....	30.08	764.0	34	1.1	.....	e.	.....	.....	3	.....	10	.....	.....	23 h'r	23 h'r	light	e.	raining.
S. S. Ailsa, Cartagena, U. S. C†.....	29.92	760.0	85	29.4	79	ne.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	ene.	clear.
S. S. Dorian, N. 41° 25', W. 44° 11'.....	30.28	769.1	42	5.6	.....	nw.	.....	.....	7	.....	7	.....	nw.	8 h'r	8 h'r	r'gh	nw.	hail squalls
S. S. Galatia, N. 36° 31', E. 13° 11'†.....	30.23	767.8	65	18.3	73	se.	.....	.....	4	.....	8	.....	se.	.....	.....	mod.	se.	fair.
S. S. Landaff City, N. 43° 21', W. 55° 50'.....	.....	.....	32	0.0	.....	sse.	.....	.....	4	.....	10	.....	s.	12 h'r	12 h'r	sm'h	.....	snowy.,
S. S. Bothnia, N. 43° 44', W. 47° 38'.....	30.33	770.4	32	0.0	89	nnw.	.....	.....	4	.....	8	.....	n.	hail	hail	mod.	n.	cloudy.
S. S. Gallia, N. 43° 09', W. 50° 43'.....	30.36	771.1	29	—1.7	.....	w.	.....	.....	4	.....	10	.....	.....	snow	snow	mod	wnw.	gloomy.
S. S. Parthia, N. 52° 56', W. 5° 10'.....	30.09	764.3	48	8.9	92	ssw.	.....	.....	4	.....	5	wsw.	sw.	o	o	sli't	ssw.	d. clouds.
S. S. Pavonia, off Queenstown, Ireland.....	29.82	757.4	52	11.1	86	ssw.	.....	.....	4	.....	10	.....	w.	4 h'r	4 h'r	sli't	sw.	cloudy.
S. S. Colina, N. 49° 44', W. 24° 36'†.....	29.24	742.7	.....	.....	.....	wnw.	.....	.....	4	.....	10	.....	nnw.	o	o	long	nw.	cloudy.
S. S. Labradore, N. 45° 10', W. 40° 20'	.....	.....	30.2	— 1	.....	wnw.	.....	.....	8	.....	8	.....	w.	snow	snow	h'vy	wnw.	
S. S. Pereire, N. 49° 50', W. 4° 10'†.....	30.09	764.3	51.8	11	.....	s.	.....	.....	5-6	.....	3	.....	s.	o	o	r'gh	s.	clear.
S. S. Ville de Marseilles, N. 20° 50', W. 93° 05'	.....	.....	77	25.0	.....	ese.	.....	.....	4	.....	6	.....	s.	o	o	sm'h	.....	fair.
S. S. Arizona, N. 43° 43', W. 52° 10'.....	30.38	771.6	27	—2.8	.....	W W.	.....	.....	3	.....	10	.....	nw.	o	o	mod.	nw.	overcast.
S. S. Abyssinia, N. 51° 45', W. 8° 00'.....	29.91	759.7	50	10.0	93	ssw.	.....	.....	6	.....	10	.....	sw.	1 h'r	1 h'r	mod.	sw.	overcast.
S. S. Bohemia, Elbe river, Germany†.....	29.92	760.0	.....	.....	.....	wsw.	.....	.....	4-5	.....	7 k	.....	w.	o	o	.....	.....	fair.
S. S. Rugia, N. 49° 59' W. 8° 14'	30.66	763.5	52	11.1	.....	ssw.	.....	.....	6	.....	10	.....	w.	.....	.....	cross	sw.	misty.
S. S. Silesia, N. 49° 55', W. 4° 50'†.....	30.14	765.5	51.9	11.1	95	s.	.....	.....	4	.....	0	.....	.....	o	o	2-3	sw.	blue sky.
S. S. Mentmore, N. 50° 24', W 23° 06'	.....	.....	.....	.....	.....	var.	.....	.....	3	.....	10	.....	.....	2 h'r	2 h'r	sm'h	nw.	gloomy.
S. S. Bulgarian, N. 51° 11', W. 12° 02' *.....	29.72	754.9	.....	.....	.....	ssw.	.....	.....	7	.....	10	.....	wsw.	o	o	mod.	ssw.	cloudy.
S. S. Colorado, New York, N. Y†.....	30.00	762.0	52	11.1	.....	sw.	.....	.....	3	.....	10	.....	sw.	4 h'r	4 h'r	.....	.....	dense fog.
S. S. San Marcos, N. 24° 45', W. 83° 10'.....	.....	.....	78	25.6	.....	e.	.....	.....	6	.....	8	.....	e.	o	o	h'vy	e.	hazy.
S. S. Chalmette, N. 26° 57', W. 79° 50'†.....	30.33	770.4	76	24.4	.....	ese.	.....	.....	5	.....	5	.....	ese.	½ h'r	½ h'r	long	e.	light rain.
S. S. New York, N. 38° 12', W. 74° 05' †.....	30.19	766.8	52	11.1	.....	sw.	.....	.....	6	.....	fg.	.....	.....	o	o	long	ssw.	dense fog.
S. S. Lone Star, N. 27° 38' W. 80° 05' †.....	30.33	770.4	73	22.8	.....	se.	.....	.....	3	.....	2	.....	se.	4 h'r	4 h'r	med.	se.	fair.
S. S. Hermod, N. 42° 00', W. 49° 38'†	30.32	770.1	32.0	0	.....	n.	.....	.....	1	.....	10	.....	w.	4 h'r	4 h'r	long	nw.	snowing.
S. S. Alleghany, Vineyard Sound, Mass†.....	29.82	757.4	38	3.3	.....	sw.	.....	.....	6	.....	8	.....	w.	rain	rain	.....	.....	stormy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
									Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																	
S. S. Archimede, N. 37° 04′, W. 1° 26′†	30.15	766.6	63	17.2		ne.			2			ne.	0	0	sm'h	ssw.	cloudy.?
S. S. Picqua., N. 38° 15′ W. 57° 10′			68	20.0		w.			4			w.	0	0	light	w.	overcast.?
S. S. City of Washington, N. 29° 15′, W. 78° 25′†	30.48	774.2	74	23.3		se.			4			se.	0	0	mod.	se.	fine.
S. S. Santiago, N. 20° 15′ W. 74° 05′	30.08	764.0	77	25.0		e.			5			ese.	2 h'r	2 h'r	h'vy	e.	clear.
S. S. Erin, N. 43° 23′, W. 57° 31′			22	— 5.6		sse.			8			sw.	10 h'r	10 h'r	h'vy	sw.	heavy snow
S. S. Greece, N. 48° 34′, W. 23° 26′	29.21	741.9	46	7.8		e.			3			calm	6 h'r	6 h'r	long	wnw.	showery.
S. S. America, N. 37° 04′, W. 73° 59′*	30.37	771.4	57.0	13.9	97	ssw.			4			sw.			mod.	ssw.	showery.
S. S. Braunschweig, S. 7° 55′ W. 28° 32′	30.00	762.0	80.0	26.7	91	nne.			4			ne.	3 h'r	3 h'r	light	ne.	fair.
S. S. Hermann, N. 46° 35′, W. 35° 56′	29.61	752.1	24.7	1.5	93	wnw.			6			wnw.	4 h'r	4 h'r	6	wnw.	squally.
S. S. Muriel, N. 39° 03′, W. 72° 50′*	30.08	764.0	52	11.1		sw.			5						r'gh	s.	hazy.
S. S. Belgenland, off Staten Island, N. Y*†	30.10	764.5	35	1.7	80	calm			0								foggy.
S. S. Nederland, N. 50° 21′ W. 1° 31′			52	11.1	79	wsw.			4			wsw.	1 h'r	1 h'r	mod.	wsw.	fair.
S. S. Rhyniand, Antwerp, Belgium	30.18	766.6	44	6.7	92	w.			6			wsw.	0	0		a	overcast.
S. S. Pennland, N. 49° 08′, W. 25° 00′	29.39	746.5	43	6.1	92	var.			7				2 h'r	2 h'r	mod	sw.	overcast.
S. S. Waesland, N. 48° 10′, W. 37° 34′	29.08	753.9	30	— 1.1		wnw.			7			wnw.	snow	snow	r'gh	wnw.	hailing.
S. S. Zeeland, N. 49° 32′, W. 23° 50′*†	29.23	742.4	44	6.7		wsw.			3			sw.	12 h'r	12 h'r	long	w.	rainy.
S. S. P. Caland, N. 49° 48′, W. 8° 00′	29.87	758.7	52.5	11.4	93	s.			4			sw.			4	sw.	cloudy.
S. S. Schiedam, N. 49° 45′ W. 16° 05′	29.35	745.5	52.3	11.3		s.			9				14 h'r	14 h'r	h'vy	s.	hazy.
S. S. Zaandam, N. 45° 04′, W. 58° 02′					91	nw.			4			w.	4 h'r	4 h'r	2	w.	squally.
S. S. Claudius, Greytown, Nicaragua, C. A†	30.03	762.7	79.0	26.1	86	calm			4			ene.	h'vy	h'vy	long	ne.	rainy.
S. S. Valencia, La Guayra, Venezuela†	30.07	763.8	80	26.7	70	ene.			4			e.	0	0	h'vy	ne.	fine.
S. S. State of Florida, N. 53° 45′, W. 14° 46′	29.29	744.0	53	11.7		s.			6			s.	6 h'r	6 h'r	mod.	var.	cloudy.
S. S. State of Indiana, N. 48° 12′ W. 38° 50′*†	29.50?	749.3?	32	0.0		wnw.			7			nw.	10 h'r	10 h'r	high	wnw.	snow & hail
S. S. Romano, N. 40° 49′, W. 53° 53′*.	30.43	772.9	48	8.9		se.			5			nw.	3 h'r	3 h'r	mod.	nw.	drizzling.
S. S. Salerno, N. 49° 53′, W. 6° 30′†	30.03	762.7	52	11.1		wsw.			5			sw.	0	0	sm'h	sw.	cloudy.
S. S. Brooklyn, N. 51° 00′, W. 20° 25′			40	7.8		sse.			6			w.	6 h'r	0 h'r	short	wnw	overcast.
S. S. Dominion, N. 51° 10′, W. 16° 12′*†	29.38	746.2	50	10.0		s.			5			s.	9 h'r	9 h'r	r'gh	sse.	raining.
S. S. Surrey. N. 46° 46′, W. 33° 40′†	29.50	749.3	37	2.8		wnw.			7			sw.	3 h'r	3 h'r	h'vy	var.	clear. ?
S. S. Lake Huron, N. 43° 16′, W. 51° 19′*	30.18	766.0	24	— 4.4		w.			4			w.	2 h'r	2 h'r	mod.	w.	
S. S. Plantyn, N. 50° 29′, W. 11° 07′									6			w.	0	0	r'gh	sw.	gale.
S. S. Aries, N. 40° 00′, W. 73° 40′*†	30.10	764.5				ssw.			5				0	0	long	ssw.	dense fog.
S. S. Catherine Whiting, Montauk Point, L. I†	30.09	764.3	80	30.0		sw.			6						short	sw.	
S. S. Norman, N. 39° 59′, W. 75° 00′†*	30.15	765.8				sw.			5			w.	light	light			cloudy
S. S. Saxon, N. 42° 10′, W. 70° —′†	29.89	759.2				w.			4			nw.					dense fog.
S. S. Adriatic, N. 47° 06′, W. 36° 55′†	29.61	752.1	30	— 1.1		wnw.			6	5		wnw.	3 h'r	3 h'r	r'gh	wnw.	hail squalls
S. S. Baltic, N. 41° 38′, W. 53° 35′*	30.31	769.9	39	3.9	91	e.			1	10			0	0	light	nw.	misty.
S. S. Britannic, N. 41° 34′, W. 04° 57′ †	30.07	763.8	40	7.8	100	sw.			6	8		sw.	6 h'r	6 h'r	r'gh	sw.	fair.
S. S. Republic. N. 52° 24′, W. 5° 36′†	30.08	764.0	02	16.7	77	s.			4	8		sw.	0	0	1	sw.	d. clouds.
S. S. Iowa, N. 46° 36′, W. 39° 13′*†	29.85	758.2	29	— 1.7		wnw.			7	10		wnw.	10 h'r	10 h'r	r'gh	wnw.	squally.
S. S. Antonio Lopez, N. 20° 51′, W. 29° 42′	30.20	768.6	67.1	19.7	64	nne.			1	0			0	0	long	n.	clear.
Schr. Abbie H. Gheen, N. 35° 00′, W. 75° 00′†	30.44	773.2	58	14.4		sw.			5								cloudy.
Bg. Abbie Clifford, N. 23° 20′, W. 81° 20′†	30.19	766.8	70	24.4		e.			4	2		e.	0	0	sm'h		fair.
Bg. Alcira, Maracaybo, Venezuela, S. A.	29.99	761.7	82	27.8		ene.			2	4		ne.	0	0			clear.
Schr. Anna A. Holton. Tampico, Mexico†	30.09	764.3	70	24.4		n.			4	10		n.	0	0	sm'h		cloudy.
Schr. Annie R. Lewis, St. Pierre, Martinique, W. I†.	30.17	766.3	80	26.7		ene.			5	2		ene.	2 h'r	2 h'r			clear.
Bk. Aureola, Swansea, Wales			50	10.0		sw.			5	3		w.	2 h'r	2 h'r			clear.
Bk. Achille F, N. 44° —′ W. 30° —′*	29.68	753.9	41.5	5.3	87	wnw.			8	8		nw.	10 h'r	10 h'r	h'vy	nw.	squally.
S. Armenia, N. 35° 50′, W. 54° 10 *	30.48	774.2	57	13.9	81	w.			3	10			0	0	mod	n.	
Bg. Belle of the Bay, N. 29° 36′, W. 88° 16′†	30.23	767.8				ese.			5	0			0	0	mod	ese.	foggy.
Bk. Bremen, N. 25° 38′, W. 65° 04′ *	30.30	771.1				e.			0	3		e.	0	0	r'gh	var.	clear.
S. S. Benledi, N. 39° 34′, W. 65° 45′*	30.29	769.4	54	12.2	73	ssw.			3–4	7		w.	0	0	short	sw.	cloudy.
Bkt. Bonny Doon, N. 25° 49′, W. 59° 42′*†	30.34	770.0				ene.			5	5		ne.	sqll's	sqll's	h'vy	ne.	cloudy.
Bk. Bare, N. 35° 00′, W. 42° 20′			05	18.3		nw.			0	8		n.	0	0	mod.	nw.	cloudy.
Bk. Pilgrim, N. 40° 01′, W. 67° 46′						ne.			3	9		ne.	8 h'r	8 h'r	mod.	n.	cloudy.
Bk. Champion, N. 39° 50′, W. 63° 00′			02	16.7		sw.			0	7		wsw.	1 h'r	1 h'r	mod.	wsw.	
Bkt. C. S. Bushnell, N. 36° 30′, W. 30° 12′	30.02	762.5				w.			0	5		w.	light	light	h'vy	w.	squally.
S. Cornelius, N. 58° 40′, W. 13° 47′†	29.40	748.3	45.5	7.5		nne.			4	10			12 h'r	12 h'r	cross	var.	drizzling.
Bk. Commerce, Cadiz, Spain†	30.01	762.2	00	15.0		e.			5	2		e.	0	0			fine.
Bk. Ceres, N. 29° 14′, W. 38° 11′*	30.35	770.9	66.9	19.4	72	nne.			5	7		var.	2 h'r	2 h'r	sm'h	var.	cloudy.
Bk. Chas. Stewart, N. 36° 20′, W. 60° 5 /†	30.01	777.5	66	18.9		wsw.			0	10		sw.	0	0	mod.	nw.	cloudy.
S. S. D. J. Foley, N. 38° 36′, W. 75° 00′ *†	30.12	765.0	45	7.2	100	s.			5	8		ssw.	0	0	r'gh	ssw.	foggy.
Schr. Edith R. Seward, San Domingo, Hayti, W. I †	30.15	765.8	79	26.1		n.			5	5?		ne.	0	0	r'gh	e.	clear?
S. E. J. Spicer, N. 44° 20′, W. 24° 15′	29.45	748.0	54	12.2	93	nw.			8	10		nw.	24 h'r	24 h'r	mod.	nw	raining.
Bkt. E. D. Bigelow N. 38° 50′, W. 27° 00′*†	29.75	755.0				wnw.			8	5		wnw.	0	0		wnw.	squally.
S. E. B. Sutton, N. 0° 12′, W. 28° 20′ †	30 04	763.0	81.5	27.5	92	ese.			4	4		e.	0	0	mod.	nne.	fair.
S. Festina Lente, N. 59° 23′, W. 16° 23′	29 48	748.8	45	7.2		ssw.			1	10		w.	6 h'r	6 h'r	long	var.	cloudy.
S. Grecian, N. 3° 25′, W. 27° 03′†.	30.02	762.5	79	26.1	86	e.			4	7		e.	1 h'r	1 h'r	long	nne.	fair.
Bk. Grey Eagle, N. 12° 51′, W. 49° 20′*†	29.90	759.4				e.			5	5?			0	0	light	ene.	clear.?
Bg. George, N. 19° 54′, W. 67° 55′*†	30.27	768.8				e.			5	2		e.	sh'rs	sh'rs	rg'h	e.	fair.
Bk. Heinrich & Tonio, N. 29° 28′, W. 63° 40′†.	30.45	773.4	67	19.4		ese.			5	5		ne.	0	0	light	ne.	fair.
Schr Hattie Weston, Mayro, Trinidad, W. I *†.	30.10	764.5	78	25.6		e.			4	2		e.	0	0	mod.	e.	fair.
Bk. Hattie G. McFarland, N. 21° 42′, W. 84° 27′*†	30.30	769.6	80	26.7		e.			5	3		e.	0	0	short	e.	
Bk. Horace Scudder N. 30° 45′. W. 49° 54′*†	30.55	770.0	04	17.8		ne.			0	10		e.	0	0	long	nw.	cloudy.
S. S. J. W. Wilson, Brazos, Santiago, Texas *†	30.13	765.3	34	1.1		nw.			7	10		ne.	4 h'r	4 h'r			hazy.
Bk. Johanne, N. 30° 20′, W. 68° 22′ *†	30.47	773.9	72	22.2		ene.			2	5		var.	0	0	sm'h	e	fine.
Schr. John L. Thomas, Vivorilla Cays, C. A*†	30.08	764.0				ene.			4	5		e.	1 h'r	1 h'r			squally.
Bg. L. & W. Armstrong, N. 27° 47′, W. 59° 45′*†	30.54	775.7				e.			6	2		e.	0	0	long	e.	squally.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3				e.			1	4		e	0	0			fine.
Bg. Mary A. Troop, King Roads, Eng*†.	30.04	763.0				w.			3	7		nw.	0	0			fair
Schr. Minnie A. Bonsall, Mayport, Fla †	30.43	772.9	70	21.1		sse.			1	0			0	0			clear.
Bgt. Myrtle, Saint Thomas, W. I*†	30.00	762.0				ene			0	0?			0	0			fair.?
S. P. M. Grace, N. 5° 00′, W. 33° 25′*	29.90	761.0	78	25.6		ene.			3	3		ne.	light	light	short	ene.	
Bkt. Norena, Matanzas, Cuba, W. I *†	30.30	769.0				e.			2	4		ne.	0	0			fine.
Bk. Ottawa, Alicante, Spain*	30.12	765.0	57	13.9		e.			2	8		ese.	0	0			cloudy.
Schr. Pearl Nelson, Cape Tiburon, Hayti, W. I*†	30.02	762.5				e.			7				rain	rain	cross	ne.	fine.
S. S. Raleigh, Perth Amboy, N. J†	30.01	762.2	50	13.3		sw			1	5		sw.	0	0	sm'h		
Bk. Reindeer, N. 14° 05′ W. 61° 12′*	30.06	763.5				ene.			0			ene.					squally.
S. Rudolph, N. 40° 25′ W. 33° 03′			50.0	10.0		nnw.			8–10	7		wnw.	8 h'r	8 h'r	h'vy	wnw.	rain & hail.
Bk. Saga, N. 44° 23′, W. 36° 00′			45	7.2		wnw.			9	7		wnw.	15 h'r	15 h'r	10	wnw.	snow & hail
Bk. Sunbeam, N. 38° 41′, W. 9° 13′	30.10	764.5	50	13.3	80	ne.			2	0			0	0			clear.
Bk. Usko, off Barnsey Island, Wales*†	30.02	762.5				ssw.			4	7		s.	0	0	mod.	s.	cloudy.
Schr. Wm. Wiler, Pointe a Pitre, Guadeloupe, W I†	30.00	763.5				e.			1	5		ene.	0 h'r	0 h'r			fine.
S. Wm. Woodbury, N. 57° 10′, E. 1° 00′*	29.89	759.2	49	9.4		nw.			4	4?		wnw.			sm'h	w.	cloudy?
District No. 2—South Atlantic.																	
H. M. S. Heroine, Montevideo, Uruguay	30.03	762.7	69	20.6	95	s.			2	2		s.			sm'h		d. clouds.
H. M. S. Fawn, S. 1° 18′ W. 22° 25′	29.97	761.2	79	26.1	95	se.			2–3	2		ese.			2	se.	blue sky.
U. S. S. Starling, S. 6° 41′ W. 12° 01′	30.03	762.7	79.2	26.2	90	se.			2	1							blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.07	763.8	68	20.0	74	s.	9	4.0		2		s.	0	0			fair.
S. S. Galena, Montevideo, Uruguay*	30.07	763.8	68	20.0	84	s.			4	2		s.			mod.	s.	fair.
S. S. Grecian, S. 4° 00′, W. 32° 00′*	29.98	761.5	81	27.2	82	se.			2	2		se.	0	0	sm'h		clear.
S. S. Archimedes, S 3° 28′, W. 32° 32′	29.87	758.7				e.			5	2		e.	0	0	mod.	e.	fine.
S. S. Hevelius, Montevideo, Uruguay†	30.22	767.0	70	21.1		ssw.			5	4?		sse.	0	0			clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2—South Atlantic.—Continued.																		
S. S. Auckland, S. 17° 54′, W. 19° 06′	30.11	764 8	77	25.0	77	e.			4		4							blue sky.
S. S. City of Agra, S. 6° 45′, W. 33° 30′	30.00	762.0	82	27.8	97	ene.			5		7							d. clouds.
S. S. May Hulse, S. 43° 26′, W. 54° 57′	30.07	763.8	55	12.8	69	s.			5		9							d. clouds.
S. S. Ambrose, Para, Brazil†	30.01	762,2	80	26.7		var.			1–2		2		ne.	3 h'r	3 h'r			fine.
Bk. Anna Thormann, S. 0° 17′, W. 26° 53′*	30.03	762.7	81.1	27.3	77	e.			4	0	6 k		e.	0	0	mod.	ese.	fair.
Bg. Annie R. Storer S. 18° 00′, W. 33° 50′*†	30.30	769 6				one			4		1		e.	1 h'r	1 h'r	sm'h	ene.	fair.
Bk. Edmund Phinney, S. 42° 40′, W. 52° 40′ †	30.09	764.3	57	13.9		ssw.			4		8		ssw.	slight	slight	r'gh	ssw.	fair.
Bk. E. L. Pettingill, S. 43° 03′, W. 42° 46′ *†	29.90	759.4	48	8.9		sw.			5		5		sw.	0	0	long	sw.	
S. Geo. Setson, S. 44° —′, W. 52° —′ *†	29.70	754.4	59	15.0	76	s.			3		1		sw.	0	0	sm'h	nw.	clear.
Bkt. Josephine, S. 34° 18′, E. 6° 36′†	30.25	768.3	70	21.1	70	se.			6		10		se.	1 h'r	1 h'r	mod	se.	cloudy.
S. Titan, S. 13° 10′, W. 35° 37′*†	30.06	763.5	84	28.9	87	ese.			4		1		ese.	0	0	sm'h	ese.	fine.
Bk. Wandering Jew, Montevideo, Uruguay †	30.10	764.5	71	21.7		s.			3		3		s.	0	0			clear.
S. Sacramento, S. 41° 15′, W. 8° 35′*†	30.22	767.6	65	18.3	89	nne.			6		10			driz.	driz.	mod.	n.	overcast.
District No. 3—North Pacific.																		
S. S. Arabic, N 34° 44′, E. 151° 22′ *†	29.62	752.3	56	13.3	81	sw.			6		10		sw.	sh'rs	shr's	mod.	sw.	overcast.
S. S. Belgic, Hong Kong, China *†	30.02	762.5	48	8.9	92	ne.			3		5		ne.	0	0	sm'h		fair.
S. S. Gaelic, Yokohama, Japan	30.06	763.5	40	4.4	91	ne.			3		4			0	0	sm'h		fair.
S. S. Oceanic, N. 35° 15′, W. 148° 00′*	30.41	772.4	61	16.1	94	ese.			4		5		e.			light	ne.	fair.
S. S. Oregon, N. 40° 28′, W 124° 32′ †	30.23	767.8	51	10.6	79	calm			0		0					light	w.	hazy.
S. S. Mississippi, Seattle, Wash. Ter†	30.75	781.0	21	—6.1	85	n.			1		0							clear.
S. S. Willamette, Admiralty Sound, W. T†	30.54	775.7	20	—6.7	100	e.			5		0			0	0	sm'h		clear.
S. S. City of Chester, Eureka, Cal *†	30.18	766.6	36	2.2	80	nw.			2		5			snow	snow			fair.
S. S. Dakota, Victoria, B. C*†	30.60	777.2	24	— 4.4	72	ne.			2		2		n.	0	0	sm'h		clear.
S. S. Orizaba, N. 34° 35′, W. 120° 40′*†	30.03	762.7	48	8.9	63	e.			6		0			0	0	chop	sw.	clear.
S. S. State of California, Astoria, Oregon †	30.70	779.8	19	—7.2	83	ene.			3		0							clear.
S. S. City of Pekin, N. 33° 55, E. 137° 24′ †.	30.02	762.5	43	6.1	67	nw.			6							small	nw.	clear.
S. S. City of Tokio, N. 32° 30′, E. 175° 19′ †	29.94	760.5	64	17.8	83	ese.			6		10		ese.	0	0	mod.	se.	hazy.
S. S. City of Rio de Janeiro, Panama, Panama			77	25.0	86	n.			2		1		n.	0	0	light	n.	fine.
S. S. Colima, N. 27° 31′, W. 115° 57′ †	30.08	764.0	55	12.8	87	nw.			5		4		nw.	0	0	mod.	nw.	fair.
S. S. Grenada, La Libertad, San Salvador †	29.85	758.2	83	28.3	79	calm			0		0			0	0	sm'h	e.	clear.
H. M. S. Curacoa, Yokohama, Japan			39.5	4.2	82	calm			0		0							misty.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	30.03	762.7	72	22.2		calm			0		5							d clouds.
U. S. Naval Hospital, Yokohama, Japan*	30.07	763.8	34.5	1.4	79	n.			1		0			0	0			clear.
U. S. S. Independence, Mare Island, Cal.	30.23	767.8	31	— 0.6	89	e.			4		5		e.	0	0			fair.
U. S. S. Lackawanna, Honolulu, Sandwich Island*	29.98	761.5	74	23.3	76	calm			0		2		ne.					clear.
U. S. S. Monocacy, N. 25° 18′, E. 119° 55′	30.12	765.0	52	11.1	60	nne.			5		5		ne.			mod.	ne.	fair.
U. S. S. Palos, Tientsin China*	30.13	765.3	25	— 3.9	100	w.			1		0							clear.
U. S. S. Ranger, San Diego, Cal.	30.21	767.3	49	9.4	65	ne.			2		10		calm	0	0	sm'h		overcast.
U. S. S. Richmond, Hong-Kong, China*	30.05	763.3	54	12.2	74	ene.			3		10		ene.	0	0			cloudy.
U. S. S Wachusetts, Honolulu, Sandwich Ids	30.03	762.7	70	21.1	95	ne.			2		5		ne.			sm'h		fair.
Bk. Childwall, N. 5° 40′, W. 125° 40′ *	29.78	756.4	74	23.3		se.			3		10		se.	23 h'r	23 h'r	sm'h		raining.
British Merchant, N 2° 33′, W. 125° 39′	29.82	757.4	74.8	23.8	93	ese.			3		4							d. clouds.
Tamega, Macao, China	30.16	766.1	53.6	12.0	76	n.			3		10							overcast.
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.89	759.2	68	20.0	95	calm			0		10							misty.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	30.00	762.0	72.6	22.6	90	n.			3		8					1	n.	showery.
H. M. S. Liffey S. 29° 56′, W. 71° 20′	29.83	757.7	52	16.7		nne.			2							1	nne.	blue sky.
H. M. S Rocket, S. 41° 30′, W. 72° 50′	29.94	760.5	58	14.4	88	wsw.			1		5							d. clouds.
H. M. S. Swiftsure, Galapago Id, S. A	29.89	759.2	75	23.9	100	calm			0		4		sw.					d. clouds.
H. M. S. Sylvia, Port Tamar, Patagonia	29.93	760.2	49	9.4	93	nnw.			2		10							misty.
U. S. S. Essex, Callao, Peru	29.88	758.9	68	20.0	90	calm			0		10							cloudy.
U. S. S. Iroquois, S. 19° 46′, W. 88° 57′	30.01	762.2	70	21.1	85	ese.			5		10		ese.			mod	e.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.00	762.0	66	18.9	89	sse.			1		10		n.					cloudy.
U. S. S. Pensacola, Callao, Peru*	29.80	756.9	67	19.4	95	calm			0		10			0	0	sm'h		cloudy.
Bk. Gronsvaer, Auckland, N. Z †	30.00	762.0	74.8	23.8		ne.			5		2		ne.	0	0			fair.
S. S. Australia, S. 34° 28′, E. 175° 43′ *	29.68	753.9	70	21.1	85	nw.			3		7		sw.	0	0	sm'h		cloudy.
S. S. City of Sydney, Sydney, N. S. W †	29.77	756.1	67	19.4	84	se.			5		8		sw.	¼ h'r	¼ h'r			raining.
S. S. Zealandia, S. 16° 30′, W. 172° 38′	29.98	761.5	76	24.4	82	ese.			6				s.					fine.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.82	757.4	57	13.9	87	ne.			1		10							misty.
Bk. Warden Law, S. 19° 44′, W. 71° 25′*	30.11	764.8				s.			2		10		s.	0	0	sm'h	s.	covered.
S Sovereign of the Seas, S. 37° 50′, W. 121° 04′ *†	30.30	769 6	62	16.7	88	ssw.			1		10			0	0	h'vy	sw.	overcast.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, N. 3° 55′, E. 66° 00′	29.80	756.9	83	28.3		nnw.			3–4		8		nw.			1	n.	d. clouds.
H. M. M. Eclipse, N. 20° 21′ E. 68° 20′	29.85	758.2	71	21.7		n.			4–5		1		nne.			5	nne.	blue sky.
H. M. S. Euryalus, Trincomalee, Ceylon, India.	29.76	755.9	78	25.6	90	ne.			3		6		calm					d. clouds.
H. M. S. Himalaya, N. 7° 02′, E. 75° 06′	29.86	758.4	75	23.9	86	n.			1–2		9					1	ne.	showery.
H. M. S. Woodlark, Bushire, Persia	30.02	762.5	59.5	15.3	82	sw.			3–4		6		se.					d. clouds.
S. S. Scotia, N. 5° 50′, E. 82° 04′	29.77	756.1	82.7	28.2	71	e.			2		6							d. clouds.
Bk. Essex, S. 26° 48′, E 36° 15′ *†	29.86	758.4	85	29.4		sse.			1		5		s.	0	0	sm'h	se.	fine.

International Chart I. February 4, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W. B. Hazen, Chief Signal Officer.
Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 5, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.10	764.5	60.8	16.0	85	s.	.....	.....	1	.....	1	.....	.....	0	0	very fair.....	Malaterre.
Algiers	.....	.....	30.10	764.6	57.2	14.0	82	ne.	.....	.....	2	.....	8	.....	.....	0	0	very cloudy	Thève.
La Calle	.....	.....	30.13	765.4	66.6	19.2	72	wsw.	.....	.....	1	.....	1	.....	.....	0	0	very fair....	Fonfréde.
Tunis	.....	.....	30.19	766.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.10	764.6	54.0	12.2	67	ne.	.....	.....	2	.....	1	.....	.....	0	0	very fair....	Pérès.
Tebessa	.....	.....	30.26	768.5	63.7	17.6	35	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Dognon.
Geriville	.....	.....	.....	.....	50.0	10.0	30	nw.	.....	.....	1	.....	4	.....	.....	0	0	cloudy.....	Forfert.
Laghouat	.....	.....	30.22	767.5	48.6	9.2	76	ne.	.....	.....	1	.....	2	.....	.....	0	0	fair.....	Abraham.
Biskra	.....	.....	30.23	767.8	71.6	22.0	14	se.	.....	.....	6	.....	8	.....	.....	0	0	very fair.....	Malau.
Australian.																			
Melbourne, Victoria	29.88	758.9	29.97	761.2	65.3	18.5	64	ese.	2	0.9	.....	.....	1	.....	.....	0	0	fine.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.80	756.8	30.37	771.5	37.4	3.0	87	sw.	.....	.....	3	.....	10	.....	.....	0.157	4.0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.43	747.5	30.22	767.7	39.2	4.0	77	wsw.	2 5	1.1	.....	.....	10	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.29	743 9	30.20	767.0	40.6	4.8	74	calm	.....	.....	0	.....	9 8	.....	.....	0.039	1.0	.....	Julius Mikolik.
Gratz	29.02	737.0	30.32	770.0	39.2	4.0	86	se.	.....	.....	1	.....	10	.....	.....	0.091	2.3	.....	Andreas Rospini.
Hermannstadt	28.65	727.6	30.10	764.4	37.4	3.0	96	nw.	.....	.....	3	.....	10	.....	.....	0.071	1.8	raining.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.97	735.9	30.37	771.5	37.8	3.2	87	wnw.	.....	.....	2	.....	10	.....	.....	0.008	0.2	gloomy.....	The Staff.
Lemberg	29.13	739.9	30.16	766.0	30.9	2.0	82	nw.	.....	.....	2	.....	10	.....	.....	0.024	0.6	.....	Dr. T. Stanecki.
Neu Schmecks	26.71	678.4	30.22	767.7	31.6	— 0.2	.....	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.11	764.9	30.23	767.9	45.0	7.2	73	ene.	.....	.....	1	.....	3	.....	.....	0.587	14.9	.....	I. R. Hydrographic Office.
Szathmar	29.66	753.3	30.11	764.9	42.8	6.0	67	n.	.....	.....	2	.....	0	.....	.....	0.102	2.6	.....	Joseph Midlinszky, S. J.
Szegedin	29.95	760.6	30.24	768.0	41.7	5.4	83	w.	.....	.....	1	.....	8	.....	.....	0.122	3.1	.....	Karl Stancel.
Trieste	30.14	765.6	30.24	768.1	47.8	8.8	55	ne.	.....	.....	2	.....	4	.....	.....	0.047	1.2	.....	Royal Academy.
Vienna	29.58	751.3	30.32	770.2	39.6	4.2	85	wnw.	.....	.....	2	.....	10	.....	.....	0.079	2.0	raining.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.97	761.2	30.07	763.8	44.2	6.8	90	s.	16	7.2	.....	.....	9	.....	.....	0	0	misty.....	W. Boswell
Armagh, Observatory	29.72	754 9	29.95	760.7	47.9	8.8	75	sse.	22	9.8	.....	.....	10	.....	.....	.....	.....	squally.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.12	765.0	45.0	7.2	80	se.	18	8.0	.....	.....	10	.....	.....	.....	.....	overcast.....	John Hartnup.
Bolton, Sharples	29.60	751.8	30.15	765.8	43.4	6.3	80	sse.	6	2.7	.....	.....	10	.....	.....	.....	.....	overcast.....	Thomas Mackereth.
Bradford, Yorkshire	29.75	755.6	30.15	765.8	45.3	7.4	78	sw.	.....	.....	1	.....	5	.....	.....	0	0	d. clouds.....	McLandsborough & Preston.
Bridgetown, Barbadoes	30.08	764 0	30.11	764.8	78.0	25.6	77	ne.	.....	.....	4	.....	3	.....	.....	.....	.....	d. clouds.....	Corpl. J. Surgenor, A. H. C
Cardington	.....	.....	.....	.....	47.0	8.3	73	s.	.....	.....	0.4	.....	6	.....	.....	.....	.....	d. clouds.....	John McLaren.
Chatham, School M. E	30.13	765.3	30.27	768.8	49.7	9.8	71	s.	.....	.....	1	.....	7	.....	.....	blank	blank	d. clouds.....	Corpl. G. A. Pickles.
Falmouth, Observatory	29.84	757 9	30.08	764.0	47.2	8.4	73	sse.	.....	.....	6	.....	5	.....	.....	.....	.....	squally.....	The Staff.
Fort Napier, Natal	27.57	700.3	29.80	756.9	65.4	18.6	92	s.	.....	.....	1	.....	10	.....	.....	.....	.....	raining.....	Corpl. F. Milner, A. H. C.
Freetown	29.02	752.3	29.85	758.2	87.0	30.6	88	ne.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	29.76	755 9	29.80	756.9	47	8.3	92	s.	.....	.....	4	.....	10	.....	.....	0.10	2.5	drizzling	Wm. Ryan.
Gibraltar, Mediterranean	30.00	762.0	30.05	763.3	59.5	15.3	94	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	gloomy.....	Sgt. F. Norris, A. H. C.
Glasgow, Observatory	29.82	757.4	30.02	762.5	46.6	8.1	76	s.	.....	.....	4	.....	10 k	.....	.....	.....	.....	overcast.....	Harry Urquhart, Asst
Greenwich, Royal Obs'y	30.08	764.0	30.25	768.3	49.4	9.7	69	s.	.....	.....	3	.....	6	.....	.....	.....	.....	d. clouds.....	The Staff.
Guernsey	29.85	758.2	30.15	765.8	45.5	7.5	73	se.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky.....	A. Collenette, F. M. S
Kew, Observatory	30.21	767.3	30.25	768.3	47.4	8.6	74	s.	13	5.8	.....	.....	7	.....	.....	.....	.....	d. clouds.....	The Staff.
Leicester, Museum	29.95	760 7	30.21	767.3	41.2	5.1	73	sw.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds.....	J. C. Smith.
Malta, Mediterranean	30.09	764.3	30.17	766.3	60.2	15.7	89	se.	.....	.....	2	.....	6	.....	.....	0	0	d. clouds.....	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.23	767.8	30.27	768.8	75.0	23.9	70	e.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe.
Oscott, St. Mary's College	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.98	761.5	30.21	767.3	46.7	8.2	80	sse.	.....	.....	3	.....	7	.....	.....	.....	.....	misty.....	The Staff.
Plymouth	30.05	763.3	30.12	765.0	47.4	8.6	74	se.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds.....	John Merrifield.
Sandwick Manse, Orkneys	29.78	756.4	29.88	758.9	43.8	6.6	92	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	misty.....	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.07	763.8	30.14	765.5	49.4	9.7	77	sw.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds.....	W. H. Lyne.
Sheffield	29.89	759.2	30.18	766.6	44.9	7.2	84	s.	.....	.....	2	.....	10	.....	.....	0	0	overcast.....	W. F. Cooper.
Silloth Rectory	30.05	763.3	30.08	764.0	48.2	9.0	74	sw.	.....	.....	2	.....	8	.....	.....	0	0	d. clouds.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.16	766.1	44.5	6.9	89	s.	10	4.5	.....	.....	10	.....	.....	.....	.....	misty.....	Rev. S. J. Perry.
Stratfield Turgiss	30.00	762.0	30.22	767.6	48.4	9.1	74	s.	.....	.....	3	.....	8	.....	.....	.....	.....	d. clouds.....	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	30.05	763.3	30.16	764.5	52	11.1	72	se.	.....	.....	7	.....	5	.....	.....	.....	.....	d. clouds.....	W. Newcombe.
Valencia, Observatory	29.76	755.9	29.79	756.7	45.9	7.7	93	se.	12	5.4	.....	.....	10	.....	.....	.....	.....	raining.....	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.85	758.2	30.24	768.1	61.9	16.6	79	s.	3.7	1.7	.....	0	6 n	.....	s.	0	0	fair.....	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	2	—16.7	.....	calm	0	0	.....	0	0	.....	.....	0.500	12.7	blue sky.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.09	764.3	30.13	765.3	3	—16.1	87	w.	2	0.9	.....	2 cs	5 s	w.	w.	0.250	6.3	fair.....	H. J. Cundall, C. E.
Chatham, N. B*	30.10	764 5	30.17	766.3	—10	—23.3	100	calm	0	0	.....	0	0	.....	.....	0.10	4.1	clear.....	G. A. Blair
Cornwall	29.97	761.2	30.19	766.8	8.8	—12.9	88	w.	.....	.....	1	.....	10 s	.....	.....	0.040	1.0	overcast.....	Jas. Smith, M. A.
Dalhousie	30.03	762.7	30.08	764.0	— 1.0	—18.3	.....	w.	.....	.....	2	0	0	.....	.....	0.200	5.1	blue sky.....	H. A. Johnson.
Father Point, Quebec*	30.09	764.3	30.12	765.0	2	—16.7	87	nw.	25	11.2	.....	0	2 s	.....	w.	0.15	3.8	clear.....	J. McWilliams.
Fort Garry, Manitoba*	29.08	738.6	30.04	763.0	—15	—26.1	100	sw.	18	8.0	.....	0	0	.....	.....	0	0	clear.....	James Stewart.
Fredericton	30.12	765.0	30.19	766.8	8.3	—13.2	71	w.	8	3.6	.....	9 cs	0	.....	.....	0.250	6.3	d. clouds.....	Prof. Harrison, L. L. D.
Granton	29.16	740.7	30.42	772.7	2.7	—16.3	96	w.	5	2.2	.....	1 cs	0	s.	.....	0	0	blue sky.....	Jas. Grant.
Halifax, N. S*	30.05	763.3	30.20	767.1	15	— 9.4	64	nw.	5	2.2	.....	10 k	0	nw.	.....	0.240	6.1	cloudy.....	A. Allison.
Hamilton	29.87	758.7	30.30	769.6	8.2	—13.3	91	sw.	.....	.....	3	4 k	0	sw.	.....	0.300	7.6	d. clouds.....	Geo. Dickson, B. A.
Kingston, Ontario*	29.87	758.7	30.23	767.8	11	—11.7	83	s.	3	1.3	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.98	761.5	30.21	767.3	4	—15.6	87	w.	7	3.1	.....	10 cs	0	w.	.....	0.02	0.5	fair.....	C. H. McLeod, C. E.
Ottawa	29.92	760.0	30.19	766.8	4.1	—15.5	93	calm	.....	.....	0	.....	10 s	.....	.....	0	0	overcast.....	A. McGill, M. A.
Parry Sound, Ontario*	29.39	746.5	30.15	765.8	14	—10.0	83	w.	25	11.2	.....	.....	10 n	.....	n.	0.09	2.3	light snow ..	Rev. R. Mosley.
Peterboro	29.43	747.5	30.20	768.6	6.8	—14.0	78	w.	.....	.....	1	0	9 s	.....	.....	0	0	d. clouds.....	J. Dixon, B. A.
Port Dover, Ontario	29.61	752.1	30.37	771.4	9	—12.8	100	calm	0	0	.....	5 cs	0	w.	.....	0	0	fair	H. Morgan.
Port Stanley, Ontario	29.67	753.6	30.38	771.6	9	—12.8	83	w.	20	8.9	.....	0	5 ks	.....	w.	inap.	inap.	fair	M. Payne.
Quebec, Quebec*	29.86	758.4	30.22	767.6	2	—16.7	72	w.	.....	.....	1	2 c	0	.....	.....	0.45	11.4	fair.....	Capt. Ashe, R. N
Rockliffe, Ontario*	29.61	752.1	30.14	765.5	— 6	—21.1	100	calm	0	0	.....	.....	8 s	.....	sw.	0	0	cloudy.....	W. H. McIntyre.
Saugeen, Ontario*	29.42	747.3	30.20	767.1	13	—10.6	83	sw.	30	13.4	.....	.....	10 ks	.....	.....	0.12	3.0	light snow...	
St. Andrews, N. B	30.15	765.8	30.20	767.1	14	—10.0	90	nw.	3	1.3	.....	.....	10 n	.....	.....	0.15	3.8	cloudy.....	
St. John, N. B	30.05	763.3	30.23	767.8	12	—11.1	80	nw.	9	4.0	.....	0	8 ks	.....	.....	0	0	d. clouds	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.70	755.9	14.0	—10.0	.....	nw.	.....	.....	7	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10 s	.....	.....	0	0	overcast.....	C. J. Macgregor, M. A.
Sydney, C. B*	28.95	735.3	30.38	771.6	4.2	—15.4	97	w.	10	4.5	.....	.....	.....	.....	.....	.....	.....	.....	
Toronto, Ontario*	29.97	761.2	30.04	763.0	6	—14.4	87	nw.	22	9.8	.....	8 c	2 s	w.	.....	0.19	4.8	cloudy	T. C. Hill, C. E.
Windsor	29.89	759.2	30.32	770.1	9	—12.8	96	sw.	10	4.5	.....	0	0	.....	.....	inap.	inap.	clear.....	Magnetic Observatory.
Woodstock	30.07	763.8	30.17	766.3	15.0	— 9.4	.....	w.	8	3.6	.....	.....	10 n	.....	.....	0	0	overcast.....	Prof. W. H. Butler, M. A.
Yarmouth, N. S*	29.21	741.9	30.40	772.1	3.7	—15.7	89	ne.	5.0	2.2	.....	2 c	0	w.	.....	0	0	blue sky.....	Prof. Wolverton, M.A.
	30.17	766.3	30.24	768.1	22	— 5.6	76	nw.	7	3.1	.....	.....	10 k	.....	nw.	0.72	18.3	cloudy.....	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower. 0–10	Direction Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	30.08	764.0	30.11	764.8	72.4	22.4	72	s.	6.4	2.9	.....	2 k	0	.....	.....	0	0	clear	John Duthie.
Springbok Fontein	27.85	707.4	.....	.....	86	30.0	27	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. T. Eustace.
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.74	628.3	.....	.....	18.5	— 7.5	.....	s.	.....	.....	1	.....	0	.....	.....	.....	.....	foggy	
Tchang-kia-tchouang	30.31	769.8	30.42	772.6	26.8	— 2.9	96	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	30.41	772.3	30.43	772.9	32.0	0.0	89	e.	4.7	2.1	.....	.....	0	.....	.....	0.071	1.8	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.24	768.2	30.29	769.4	32.9	0.5	87	nne.	9	4	.....	.....	10	.....	.....	.....	.....	rain & snow	Oversergent Fischer.
Fanoe	30.30	769.6	30.32	770.1	36.1	2.3	96	nnw.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.20	741.6	29.24	742.7	— 5.1	—20.6	100	nnw.	.....	.....	4-6	.....	8	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	29.08	738.5	29.10	739.0	— 3.5	—19.7	.....	calm	.....	.....	0	.....	5	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.47	743.5	29.32	744.7	—14.1	—25 6	.....	calm	.....	.....	0	.....	4	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.68	728.5	28.72	729.0	29.8	— 1.2	90	calm	.....	.....	0	.....	10	.....	.....	.....	.....	snowing	A. O. Thorlacius.
Thorshavn	29.60	751 7	29.63	752.6	47.8	8.8	78	ssw.	25	11	.....	.....	10	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	30.26	768.7	30.35	771.0	34.9	1.6	96	ene.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	29.25	742.9	29.30	744.1	— 6.2	—21.2	.....	s.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	29.53	750.0	30.19	766.8	47.8	8.8	73	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.72	754.8	30.27	768.8	40.6	4.8	90	e.	.....	.....	1	.....	cn	w.	w.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	30.24	768.2	30.52	775.1	44.8	7.1	84	se.	.....	.....	4	.....	k	.....	.....	0	0	.....	M. Fénéon, Command't.
Avignon, Normal School	30.13	765.2	30.21	767.2	52.9	11.6	57	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Girand, Director.
Bar-sur-Seine	29.69	754.2	30.27	768.8	44.8	7.1	60	se.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Saillard, Director.
Beauvais, Normal School	30.04	763.1	30.32	770.2	39.4	4.1	90	sse.	.....	.....	1	.....	5	.....	sse.	0	0	cloudy	M. Frère Eugène Marié
Besançon, Normal School	29.26	743.2	30.19	766.7	50.0	10	86	ne.	.....	.....	4	.....	0	.....	.....	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.83	757.6	30.10	764.4	48.2	9.0	65	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.60	751.9	30.13	765.4	41.0	5	84	e.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Malet, Director.
Brest, Naval Observatory	29.84	758.0	30.09	764.2	50.4	10.2	72	se.	.....	.....	2	.....	1	se.	.....	0.012	0.3	.....	M. de Kermaréc, Dir.
Caen, Normal School	30.16	766.1	30.24	768.0	42.1	5.6	94	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.92	759.9	29.93	760.3	48.2	9.0	56	nw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.59	751.5	30.11	764.7	39.7	4.3	91	se.	.....	.....	1	.....	2	.....	.....	0.020	0.5	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28 82	732.0	30.22	767.6	41.9	5.5	66	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Allnard, Director.
Cluny, Normal School	29.39	746.5	30.27	768 9	34.2	1.2	88	nw.	.....	.....	1	.....	fg	.....	.....	0.161	4.1	foggy	M. de Villemontée, Dir.
Commercy, Normal School	29.43	747.4	30.31	769.9	41.9	5.5	84	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.63	701.8	30.21	767.3	45.3	7.4	66	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, du Rhone	29.04	737.5	30.17	766.2	50.7	13.7	71	s.	.....	.....	1	.....	3	.....	s.	0.098	2.5	.....	M. Kinn, Director.
Grenoble, Normal School	29.47	748 6	30.27	768.9	44.2	6.8	69	se.	.....	.....	1	.....	k	.....	s.	0.386	9.8	.....	M. Ablard, Director.
Guéret	28.58	726.0	30.21	767.4	38.8	3.8	55	s.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	29.89	759.2	30.17	766.2	44.6	7	71	se.	.....	.....	3	.....	1	.....	se.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.48	748.8	30.05	763.2	59.7	15.4	58	e.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.01	762.2	30.11	764.8	46.8	8.2	78	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.18	741.2	30.30	769.5	32.5	0.3	88	se.	.....	.....	1	.....	fg	.....	.....	0.315	8.0	dense fog	M. André, Director.
Mans, Normal School	29.88	759.0	30.20	767.0	45.3	7.4	57	se.	.....	.....	4	.....	2	.....	e.	0	0	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.91	759.7	30.18	766.6	57.9	14.4	74	ene.	.....	.....	1	.....	8	.....	se.	0	0	.....	M. Stephan, Director.
Montlouis	24.86	631.4	29.70	754.4	46.4	8.0	39	sw.	5.6	2.5	.....	.....	0	.....	.....	0	0	.....	M. Caré for Dr. Fines.
Montpellier, Normal School	30.01	762.3	30.14	765.6	48.9	9.4	75	ne.	.....	.....	3	.....	5	.....	se.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.46	748.2	30.27	768.8	44.6	7.0	55	ssw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	30.00	762.1	30.17	766.2	45.3	7.4	62	e.	.....	.....	1-2	1 c	0	.....	.....	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	30.10	764.4	30.21	767.4	49.8	9.9	65	se.	3.8	1.7	.....	.....	1	.....	ne.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.21	538.7	.....	.....	32.0	0.0	.....	sw.	.....	.....	1	.....	1	.....	sw.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.17	740.8	30.26	768 7	43.9	6.6	74	n.	.....	.....	1	1	1	ne.	ne.	0.217	5.5	clear	M. Taillen.
Puy de Dôme Obs'y, Summit	25.20	640.0	.....	.....	32.2	0.1	57	ese.	.....	.....	3	.....	0	.....	.....	0.004	0.1	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	30.06	763.5	30.09	764.3	46.0	7.8	75	se.	.....	.....	2	.....	0	.....	.....	0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.86	758 4	30.08	764.0	43.5	6.4	67	se.	.....	.....	1	.....	0	.....	.....	0.012	0.3	clear	M. Brotier, Director.
Rodez, Normal School	27.95	709.8	30.13	765.3	45.0	7.2	88	se.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.20	767.0	30.24	768.2	39.2	4.0	87	sw.	.....	.....	1	.....	5	sw.	.....	0	0	cloudy	M. Mouillot.
Saint Lô	.....	.....	.....	.....	44.2	6.8	67	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Delaplanche, Dir.
Saint Maur, Observatory	30.10	764.6	30.27	768.8	47.1	8.4	61	ese.	.....	.....	2	.....	1	w.	.....	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.44	747.8	30.17	766.3	49.6	9.8	66	sse.	.....	.....	3	.....	0	.....	.....	0	0	clear	M. Baillaud, Director.
Tours	29.99	761.7	30.17	766.2	45.0	7.2	69	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. de Tastes.
Versailles, Observatory	29.77	756.1	30.26	768.6	44.2	6.8	71	s.	.....	.....	3	.....	.....	.....	.....	0	0	.....	Dr. A. Berigny, Director
Sub-series.																			
St. Martin du Hinx	29.93	760.1	30.08	763.9	53.1	11.7	63	n.	5.8	2.6	.....	0	0	.....	.....	0	0	clear	M. Cartier, Director.
German.																			
Ansbach	28.89	733.7	30.40	772.2	39.9	4.4	76	calm	.....	.....	0	.....	5	.....	.....	0.012	0.3	.....	Prof. Jnedt.
Bamberg	29.46	748.3	30.31	769 9	44.6	7.0	64	w.	.....	.....	1	0	2 ks	.....	w.	0	0	.....	Prof. Dr. Hoh.
Berlin	30.12	765.0	30.27	768.8	38.8	3.8	98	w.	.....	.....	3	.....	10	.....	.....	0	0	.....	Meteorological Institute.
Breslau	29.72	755.0	30.26	768.6	37.2	2.9	94	wnw.	.....	.....	2	.....	10	.....	.....	0.059	1.5	foggy	Royal University Obs'y
Carlsruhe	29.89	759.3	30.37	771.4	46.0	7.8	61	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	Albert Senz.
Cassel	29.66	751.9	30.32	770.0	43.5	6 4	74	w.	.....	.....	1	.....	2	w.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.98	761.5	30.36	771.2	42.4	5.8	84	sse.	.....	.....	1	.....	1	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.82	732.0	30.31	769.9	39.9	4.4	69	ne.	.....	.....	4	.....	2	ene.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	30.22	767.7	30.32	770.0	39.9	4.4	92	wnw.	.....	.....	3	.....	10	.....	.....	0.047	1.2	light fog	E. Preller.
Kiel	30.29	769.3	30.30	769.7	37.2	2.9	95	nne.	.....	.....	3	.....	10	.....	.....	0.024	0.6	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.89	759 2	30.33	770.3	40.6	4.8	86	w.	.....	.....	2	.....	10	.....	.....	0.047	1.2	.....	H. Leppig, Asst.
Magdeburg	30.10	764.5	30.30	769.5	40.3	4.6	96	w.	.....	.....	2	.....	10	w.	.....	0.102	2.6	.....	Dr. Assmann.
Memel	30.10	764.5	30.15	765.7	32.0	0	98	nw.	.....	.....	4	.....	10	.....	.....	.....	.....	light snow	Issermann.
Munich	28.48	723.5	30.37	771 4	37.8	3.2	69	n.	.....	.....	1	.....	3	sc.	.....	0.059	1.5	.....	Central Station.
Neufahrwasser	30.21	767.4	30.23	767.8	33.4	0.8	100	nw.	.....	.....	2	.....	10	.....	.....	0.071	1.8	rain & snow	A. Lothes.
Neustadt, Palatinate	29.80	757.0	30.34	770.5	45.7	7.6	74	ne.	.....	.....	3	.....	5	ne.	.....	0	0	.....	Dicknether.
Stuttgart	29.38	746.2	30.31	769 8	41.9	5.5	70	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	30.27	768.9	30.30	769.6	34.3	1.3	98	ene.	.....	.....	2	.....	10	.....	.....	0	0	foggy	Profs. Brandes & Reimer.
Greek.																			
Athens	29.77	756.2	30.16	766.0	57.9	14.4	.....	w.	.....	.....	1.0	.....	5	.....	.....	0.004	0.1	misty	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.02	762.0	30.05	763.4	74.8	23.8	39	ene.	12.0	5.4	.....	.....	0	.....	.....	0	0	blue sky	
Deesa	29.49	749.1	29.97	761.3	78.5	25.8	17	nnw.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.84	758.0	29.88	759.0	78.5	25.8	72	nnw.	17.0	7.6	.....	.....	6	w.	.....	0	0	d. clouds	
Poona, Yarrowda	28.00	711.3	29.83	757.8	86.3	30.2	26	se.	5.0	2.2	.....	.....	8	w.	w.	0	0	d. clouds	
Belgaum	27.32	693.8	29.83	757.6	81.7	27.6	26	e.	4.0	1.8	.....	.....	5	s.	.....	0	0	d. clouds	
Lahore	29.25	742.9	30.03	762.7	60.6	15.9	35	w.	8.0	3.6	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	29.00	736.6	29.94	760.4	59.8	15.4	44	w.	5.0	2.2	.....	.....	0	.....	.....	0	0	.....	
Agra	29.43	747.5	30.02	762 4	66.3	19.1	24	w.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.89	733.7	29.93	760.3	80.7	27.1	25	e.	3.0	1.3	.....	.....	2	w.	.....	0	0	d. clouds	
Jubbulpore	28.62	727.1	30.01	762.3	69.9	21.1	20	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.58	751.2	29.97	761.2	62.3	16.8	35	n.	7.0	3.1	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.65	753.2	29.98	761.5	61.9	16.6	48	nw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.73	755.1	29.92	760.0	63.6	17.6	34	w.	7.4	3.3	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.88	708.0	29.96	761 0	59.5	15.3	29	wnw.	12.7	5.7	.....	.....	0	.....	.....	0	0	squally	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.86	758.4	29.94	760.5	76.2	24.6	51	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	29.93	760.1	29.95	760.7	69.8	21.0	35	nw.	2.0	0.9			0			0	0	blue sky	
Dhubri	29.79	756.8	29.92	759.9	63.1	17.3	66	calm	1.1	0.5			0			0	0	blue sky	
Chittagong	29.90	759.4	29.99	761.8	65.6	18.7	66	w.	4.1	1.8			2			0	0	blue sky	
Sibsagar	29.58	751.3	29.93	760.3	58.0	14.4	90	ne.	2.0	0.9			6	w.	w.	0.05	1.3	d. clouds	
Jeypore	28.55	725.1	30.04	763.1	64.2	17.9	28	n.	7.8	3.5			0			0	0	blue sky	
Bellary	28.40	721 3			82.2	27.9	34	se.	8.	3.6			10			0	0	d. clouds	
Trichinopoly	29.64	752.8			80.1	26.7	62	ese.	1.	0.4			10			0	0	overcast	
ITALIAN.																			
Udine	29.87	758.6	30.29	769.3	48.7	9.3	55	se.	6.9	3.1			1			0.736	18.7		Prof. Giovanni Clodig.
Milan	29.76	755.9	30.30	769.5	43.7	6.5	90	ese.	1.3	0.6			8	nw.		0.098	2.5		Prof. Schiapparelli.
Padua	30.17	766.3	30.28	769.2	48.7	9.3	71	ne.	13.0	5.8			7	e.		0.122	3.1		Prof. Dott. Lorenzoni.
Moncalieri	29.34	745.3	30.29	769.3	43.0	6.1	80	ne.	5.6	2.5			0			0	0		Prof. F. F. Denza.
Genoa	30.02	762.4	30.21	767.4	52.3	11.3	67	ne.	8.1	3.6			2	n.		0.591	15.0		Prof. G. M. Garibaldi.
Mondovi	28.34	719.9	30.33	770.4	42.3	5.7	65	w.			2		0			0.020	0.5		Prof. D. C. Bruno.
Pesaro	30.23	767.9	30.28	769.2	46.8	8.2	92	nw.	13.6	6.1			10			0	0		Prof. Luigi Guidi.
Florence	29.94	760.4	30.20	767.0	54.0	12.2	74	ne.			2		10			0.059	1.5		Prof. Costantino Pittei.
Leghorn	30.04	763.1	30.13	765.3	55.9	13.3	82	ene.	4.9	2.2			8	wsw.		0.003	1.6		Prof. P. Monte.
Rome	29.99	761.8	30.17	766.3	59.0	15.0	58	ssw.	3.8	1.7			5			0	0		Prof. P. Tachini.
Lecce	29.89	759.3	30.15	765.9	57.2	14.0	71	wsw.	9.4	4.2			4	s.		0	0		Prof. C. de Giorgi.
Cosenza	29.26	743.1	30.16	766.1	55.4	13.0	77	calm	3.1	1.4			3	sw.		0	0		Prof. D. Conti.
Cagliari	29.86	758.4	30.06	763.4	53.5	12.0	76	ssw.			0		0			0	0		Prof. A. Pacinotti.
Palermo	29.91	759.7	30.16	766.1	60.8	16.0	50	ne.	3.1	1.4			0			0			Prof. G. Caccianore.
Syracuse	30.12	765.0	30.16	766.1	58.1	14.5	83	sw.	6.3	2.8			4	wsw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																	0		
Naples, S. R	29.66	753.3	30.19	766.9	55.9	13.3	60	w.	1.3	0.6			5	n.		0			Prof. F. Brioschi.
Stelvio	22.23	564.7			18.9	— 7.3	51	w.			1		0			0.343	0	misty	Prof. P. F. Denza.
Valdobbia	22.25	565.1			30.4	— 0.9	25	n.			2		0			0	8.7	clear	Prof. P. F. Denza.
																	0		
JAPANESE.																			
Akita	30.23	767.9	30.26	768.7	27.0	— 2.8	91	n.			2	2 ck	0	nw.		0	0	clear	H. Hattori.
Awomori	30.18	766.6	30.22	767.6	25.0	— 3.9	74	w.	10.8	4.8			9 ks			0.209	5.3	overcast	K. Ogawa.
Hakodate	30.18	766.6	30.19	766.9	25.0	— 3.9	94	wnw.	10.8	4.8		1	2	w.	nw.	0.080	2.0	clear	
Hamamatsu	30.13	765.3	30.16	766.0	38.0	3.3	72	calm			0	0	0			0	0	clear	
Kagoshima	30.30	769.6	30.31	769.9	39.9	4.4	42	n.			2	0	1 s			0	0	clear	G. Miyanonaza.
Kioto	30.07	763.8	30.26	768.5	34.0	1.1	85	nnw.	2.2	1.0		0	7 s			0	0	fair	M. Tojima.
Kochi	30.25	768.3	30.27	768.8	37.0	2.8	74	nw.	2.1	0.9		0	0			0	0	clear	K. Kusunose.
Miasaka	30.27	768.9	30.30	769.6	38.9	3.8	67	calm			0	0	1 ck		w.	0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.12	765.1	30.34	770.6	36.5	2.5	87	calm	0	0		0	1 s			0	0	clear	S. Takehayashi.
Niigata	30.23	767.8	30.27	768.8	32.9	0.5	89	ne.	3.3	1.4			10 ck			0.125	3.2	overcast	M. Morita.
Nobiru	30.21	767.2	30.22	767.6	29.9	— 1.2	69	n.	4.7	2.1		0	3 s			0	0	fair	H. Midzushima.
Numazu	30.14	765.5	30.17	766.3	37.6	3.1	71	ne.			4		9 ks		w.	0	0	cloudy	R. Kaneda.
Osaka	30.24	768.1	30.25	768.5	36.0	2.2	86	n.	7.6	3.4		0	1s;ck			0	0	clear	H. Omura.
Sakai	30.29	769.5	30.31	769.8	36.0	2.2	93	w.			2		10 n			0.173	4.4	raining	K. Yamawchi.
Sapporo					19.1	— 7.2	96	calm	0	0			2					snowing	
Tokei Obs'y, Yeddo	30.12	765.0	30.20	767.1	34.2	1.2	79	e.	3.0	1.3		0	0			0	0	clear	The Staff.
Wakayama	30.20	767.1	30.26	768.5	40.3	4.6	70	ne	7.4	3.3		0	7 ck		w.	0	0	fair	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.63	752.6	29.82	757.4	81.4	27.4	73	nw.	4.5	2.0		0	6 k;n		sse.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Altata					56	13.3	80	nw.										hazy	H. Diaz Pena.
Guanajuato	23.71	602.1	29.93	760.1	54.7	12.6	86	ene.	lnap.	lnap.		0	0			0	0	foggy	Prof. Vicente Fernandez.
Leon	24.34	618.2	30.19	766.8	48.2	9.0	83	ene.			1	2 c	0			0	0	clear	Prof. M. Leal.
Mazatlan	29.72	754.8	29.98	761.4	61.0	16.1	88	ene.	1.6	0.8		5 cs	0	sw.		0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	587.9	30.30	769.7	47.7	8.7	78	calm	0	0		0	0			0	0	fine	The Staff.
Morelia	24.23	615.5	30.07	763.8	50.4	10.2	70	se.			1	1 c	1 k	s.	s.	0	0	clear	M. Tena, M. D.
Pabellon																			
Puebla, Catholic Institute	23.40	594.3	30.23	768.0	46.4	8.0	93	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
Zacatecas	22.54	572.5	30.27	768.8	46.4	8.0	91	e.	10.4	4.6		0	0 nk		e.	0	0	½ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.34	770.5	30.34	770.5	44.1	6.7		sse.			2					0.008	0.2		
Groningen	30.28	769.1	30.34	770.5	36.1	2.3		sw.			1					0	0		
Helder																0	0		
Hellevoetsluis	30.33	770.4	30.33	770.4	46.2	7.9	78	sse.			1					0.004	0.1		
Utrecht	30.31	769.9	30.36	771.1	40.1	4.5	100	wsw.			1					0.004	0.1	hazy	H. van der Brink
Sub-series.																			
Batavia, Java	29.79	756.6			77.9	25.5	86	nw.	0	0			8			0.43	11.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.18	766.5	30.24	768.1	39.2	4.0	73	s.	13	6			2			0	0		
Brono	30.22	767.5	30.26	768.5	28.0	— 2.2	63	calm			0		0			0	0		
Christiania	30.26	768.9	30.43	772.9	22.1	— 5.5	80	e.	4	2			0			0.008	0.2		
Gjesvaer	30.10	764.6	30.13	765.2	35.2	1.8		w.			7		10						
Lodingen	30.24	768.2	30.29	769.4	28.2	— 2.1	71	calm			0		0			0	0		
PORTUGUESE.																			
Angra, Azores	29.87	758.8	30.04	762.9	49.3	9.6	66	nnw.	8.1	3.6			3			0.098	2.5		Dr. J. A. Sampaio.
Campo Major	29.07	738.3	30.08	763 9	57.6	14.2	76	ssw.	1.3	0.6			10			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	29.91	759.6	29.99	761.8	60.1	15.6	86	wsw.	6.9	3.1			10			0.504	12.8	raining	Capt. D. A. de Ounha.
Lisbon, Observatory	29.71	754.5	30.08	763.9	47.3	8.5	84	nne.	2.5	1.1			9			0	0		The Staff.
Ponta Delgada, Azores	29.98	761.4	30.05	763.2	53.2	11.8	48	n.	11.9	5.3			4			0.272	6.9		
Saint Paul de Loando	29.71	754.6	29.91	759.6	82.0	27.8	87	wnw.	1.3	0.6			2	sse.		0	0		
Serra da Estrella	25.23	640.8	30.11	764.7	34.2	1.2	100	se.	24.8	11.1			10			0	0	foggy	
RUSSIAN.																			
Akmollinski	29.28	743.8	30.51	774.9	— 1.8	—18.8	88	sw.	18	6		2 cs	0			0	0		Major K. Lasarew.
Archangel	30.12	765.0	30.14	765.5	10.2	— 8.8	94	wnw.	13	6		0	0			0	0		Capt. Sselliwerstow.
Ashurada	30.53	775.4	30.43	773.0	41.5	5.3	44	n.	13	6		0	6 ks;n			0	0		
Astrakhan	30.28	769.0	30.19	766.9	30.9	— 0.6	70	se.	9	4			10			0	0	heavy clouds	Capt. Wisganow.
Baku	30.47	774.0	30.43	772.8	40.3	4.6	78	s.	9	4		0	3 ks			0	0		
Barnaul	29.80	756.9	30.35	770.9	10.8	—11.8	86	sw.	31	14			10			0.323	8.2		Meteorological Obs'y.
Bielosersk	29.58	751.2	30.07	763.8	21.0	— 6.1	89	n.	4	2		4 cs	0			0.035	0 9		
Dorpat	29.78	756.3	30.03	762.8	27.5	— 2.5	100	nne.	11	5			10 n			0.024	0.6	light snow	Observatory.
Ekaterinburg	28.98	736.1	30.02	762.5	13.5	—10.3	79	wsw.	22	10		c;ck	9 ks			0	0	light clouds	Meteorological Obs'y.
Elisawetgrad	29.56	750.9	30.03	762.8	34.2	1.2	91	w.	9	4			10 n			0.035	0.9		
Irkutsk	28.69	728.6	30.52	775.2	2.5	—16.4	80	ese.			3		5			0	0		
Kasalinsk	30.02	762.4	30.19	766 9	2.5	—16.4	67	e.	2	1		0	0						
Kasan	29.80	756.9	30.10	764 3	18.5	— 7.5	83	ssw.	13	6			10			0.004	0.1		Observatory.
Kem	30.19	766.7	30.24	768.0	13.3	—10.4	90	w.	9	4		0	0			0	0		
Kertch	30.13	765.3	30.15	765.8	30.0	2.2	80	calm	0	0			10 n			0.394	10.0		Lagorio & Sastyrez.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Kieff	29.32	744.8	29.98	761.6	34.5	1.4	80	nw.	18	8			toks;n			0.055	1.4		Observatory.
Koslov	29.43	747.6	30.00	762.0	18.9	— 7.3	94	ssw.	9	4			10 s			0.224	5.7	light snow..	
Libau	30.11	764.8	30.13	765.4	32.5	0.3	92	nnw.	11	5			10			0.098	0.2		E. Quaas.
Lugan	29.87	758.8	30.08	763.9	23.2	— 4.9	72	sw.	2	1			10			0.063	1.6		Meteorological Obs'y.
Moscow	29.37	746.1	29.88	758.9	26.6	— 3.0	91	calm	0	0			10 n			0.102	2.6	snowing	Meteorological Obs'y
Nikolaiev	29.99	761.8	30.07	763.7	36.0	2.2	98	s.	13	6			10 n			0.028	0.7		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor																			Iwanow.
Pekin, China	30.29	764.9	30.44	773.2	30.9	— 0.6	41	calm	0	0		0	3 k			0	0		Physical Observatory.
Petro-Alexandrovsk	30.20	767.1	30.58	776.8	20.3	— 6.5	58	calm	0	0		0	3 ks			0	0		
Petrozavodsk	29.96	761.0	30.17	766.3	23.7	— 4.6	74	n.	11	5		7 ck	0			0	0		Dr. Bergmann.
Pinsk	29.56	750.9	30.08	764.0	35.1	1.7	90	wnw.	18	8		0	7 n			0.186	4.7	rain & snow	
Poti	30.21	767.2	30.22	767.7	49.3	9.6	59	e.	7	3		0	0			0	0		
St. Petersburg	30.06	763.5	30.08	763.9	23.9	— 4.5	76	ne.	13	6		cs	1 k			0.130	3.3		Central Physical Obs'y.
Samarkand	27.82	706.5	30.45	773.5	26.8	— 2.9	61	calm	0	0		0	0						
Semipalatinsk	29.87	758.7	30.60	777.1	7.9	—13.4	76	s.	13	6			9			0	0		Major Lasarew.
Sevastopol	29.88	759.0	30.11	764.9	42.6	5.9	78	s.	11	5			10 n			0.067	1.7		
Staroi Bykhov	29.50	749.4	29.98	761.5	34.9	1.6	84	sse.	7	3			10			0.272	6.9		
Tashkend	28.75	730.2	30.58	776.8	20.1	— 6.6	74	calm	0	0		0	0			0	0		Terch, A. M.
Tiflis	28.95	735.3	30.44	773.2	35.2	1.8	54	s.	7	3		0	0			0	0		Physical Observatory.
Vernoe	27.88	708.1	30.66	778.7	9.1	—12.7	73	w.	4	2		0	0						
Viatka	29.28	743.7	29.95	760.6	21.7	— 5.7		w.	2	1			10			0.020	0.5		
Vladivostock	30.33	770.3	30.39	772.0	4.6	—15.2	40	n.	9	4		0	0			0	0		
Warsaw	29.74	755.4	30.19	766.7	35.1	1.7	91	nnw.	9	4			10			0.016	0.4		Astronomical Obs'y.
Wilna	29.61	752.1	30.05	763.2	32.0	0.0	87	w.	4	2			10			0.016	0.4	heavy clouds	Berg, Assistant.
Yeniseisk	29.84	758.0	30.15	765.9	12.2	—11.0	88	s.	4	2			9			0.224	5.7		M. O. Marks.
Scottish.																			
Monach Lt			29.71	754.6	48	8.9	92	s.			7		10			0.2	5.	overcast	J. Youngclauss.
North Unst			29.99	761.7				s.			6		6						Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.07	763.8	30.17	766.4	52.5	11.4	78	e.	0.2	0.1			9			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.03	762.8	30.09	764.3	59.7	15.4	57	se.	2.7	1.2		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.11	688.5	30.13	765.4	47.7	8.7	43	se.	5.1	2.3		0	2			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.89	708.4	30.16	766.1	50.2	10.1	71	calm	0.4	0.2			9			0	0	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.98	761.6	30.13	765.2	57.0	13.9	72	ene.	1.8	0.8		2	6	sw.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.19	741.5	30.05	763.3	35.6	2.0	90	s.	3.5	1.6		2 k	2 kn	ne.	ne.	0	0	fair	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.04	737.6	29.95	760.6	51.3	10.7	84	s.	26.2	11.7			7			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.87	758.7	29.93	760.1	78.0	25.6	75	e.	6.6	3.0			2 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.02	762.4	30.12	764.9	60.3	15.7	79	se.	12.9	5.8		0	9		s.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.07	763.8	30.16	766.1	76.3	24.6	78	e.	18.3	8.2			10kn	e.	e.	0.087	2.2	raining	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	30.38	771.6	30.42	772.6	2.8	—16.2	100	n.			2		0			0	0		
Umea	30.36	771.1	30.41	772.4	15.4	— 9.2	94	nnw.			2		10			0	0		
Hernosand	30.39	771.9	30.44	773.2	14.0	—10.0	74	calm			0		0			0	0		
Stockholm	30.12	765.0	30.30	769.5	26.4	— 3.1	85	nne.			6		10			0.020	0.5		
Wisby	30.12	765.1	30.18	766.6	30.2	— 1.0	92	nne.			4		10			0.012	0.3	snowing	
Sub-series.																			
Upsala	30.25	768.3	30.34	770.5	25.3	— 3.7	87	nne.	14.5	6.5			10			0	0		S. G. Fineman.
Swiss.																			
Geneva	28.83	732.3	30.30	769.7	39.2	4.0	71	nne.			3		10			0	0	covered	The Observatory.
Turkish.																			
Constantinople			30.17	766.4	50.0	10.0	71	wsw.	6	2.5			5		sw.	0	0		The Observatory.
Valona			30.23	767.9	57.7	14.3		sw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.21	767.4	59.4	15.2	46	n.			1		0			0	0		Prof. C. V. A. van Dyck.
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	30.25	768.3	30.34	770.6	27	— 2.8	77	nw.	2	0.9			10 s			0.01	0.3	cloudy	J. O. Barnes.
Alpena, Michigan	29.58	751.3	30.29	769.4	0	—17.8	68	w.	23	10.3		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.00	935.0	30.10	764.5	16	— 8.9	58	ne.	2	0.9		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.32	693.9	30.36	771.1	5	—15.0	54	sw.	36	16.1		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.13	739.9	30.35	770.9	57.5	14.2	96	w.	2	0.9			fg.			0.01	0.3	dense fog	H. C. Smyth.
Atlantic City, New Jersey	30.37	771.4	30.38	771.6	31	— 0.6	88	n.	5	2.2			10 n			0.05	1.3	sleeting	Jas. M. Watson.
Augusta, Georgia	30.13	765.3	30.33	770.4	63	17.2	93	s.	1	0.4			10 s			0	0	cloudy	John Henly.
Baltimore, Maryland	30.40	772.1	30.45	773.4	33	0.6	88	se.	1	0.4			10n;fg			0.36	9.1	sleetiug	Geo W Felgar.
Barnegat, New Jersey	30.39	771.9	30.41	772.4	30.0	— 1.1	88	ne.	4	1.8			10 n			0.23	5.8	light snow	G. A. Hill.
Behring Id., Behring Sea	29.73	755.1	29.75	755.6	25.1	— 3.8		w.	22	9.8			10 n			0.04	1.0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.80	731.5	30.53	775.4	—14	—25.6	72	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.41	696.2	30.41	772.4	10	—12.2	60	sw.	24	10.7		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.96	684.8			— 5	—20.6	65	sw.	19	8.5		0	0			0	0	clear	T. Gibson.
Bismarck, Dakota	28.34	719.8	30.32	770.1	— 1	—18.3	72	n.	10	4.5		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.34	770.6	30.37	771.4	30	— 1.1	68	nw.	4	1.8			10 s		nw.	0.03	0.8	cloudy	J. T. Elker.
Boise City, Idaho	27.63	701.8	30.59	777.0	— 9	—22.8	87	calm	0	0		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.18	766.6	30.34	770.6	26.5	— 3.1	77	nw.	5	2.2		10 ck	fg.	w.		inap.	inap.	cloudy	O. B. Cole.
Brownsville, Texas	30.35	770.9	30.40	772.1	27.8	— 2.3	88	n.	14	6.3			10 s		n.	0.09	2.3	cloudy	M. McCurty.
Buffalo, New York	29.52	749.8	30.32	770.1	15.6	— 9.1	85	sw.	14	6.3			10 s		sw.	inap.	inap.	cloudy	W. Finn.
Buford, Fort, Dakota	28.14	714.7	30.32	770.1	— 6	—21.1	65	s.	6	2.7		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.95	760.7	30.26	768.8	17.3	— 8.2	75	e.	1	0.4			10 s		w.	0	0	cloudy	D. N. Farnell.
Cairo, Illinois	30.25	768.3	30.37	771.4	40	4.4	100	ne.	16	7.2			10 n			0.22	5.6	threatening	W. H. Ray.
Cape Henry, Virginia	30.35	770.9	30.37	771.4	40	4.4	100	ne.	16	7.2			10 n			0.22	5.6	light rain	A. K. Alderson.
Cape May, New Jersey	30.35	770.9	30.38	771.6	35.0	1.7	89	calm	0	0			10 n			0.57	14.5	light rain	W. E. Smith.
Cape Mendocino, California	29.42	747 3	30.12	765.0	33	0.6	68	ne.	12	5.4		0	0			0.03	0.8	clear	J. J. McLean.
Cedar Keys, Florida	30.31	769.9	30.33	770.4	66	18.9	90	e.	3	1.3		0	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.81	757.2	30.68	779.3	— 4.8	—20.4	63	nw.	14	6.3		7 c	0	w.		0	0	fair	L. A. Welsh.
Charleston, S. Carolina	30.26	768.6	30.32	770.1	62	16.7	100	w.	6	2.7			fg.			0	0	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.38	746.2	30.27	768.8	62.0	16.7	93	sw.	8	3.6			10s;fg		sw.	0.18	4.6	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.49	749.0	30.25	770.9	51.0	10.6	86	sw.	11	4.9		0	7 ks		w.	0.90	22.9	fair	B. L. Goulding.
Cheyenne, Wyoming	24.11	612.4	30.36	771.1	— 1.8	—18.8	48	w.	6	2.7		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.86	758.4	30.61	777.5	— 6.8	—21.6	77	w.	9	4.0		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.33	770.4	30.35	770.9	35	1.7	100	e.	8	3.6			10n;fg		e.	0.55	14.0	light rain	C. F. Dickens.
Cincinnati, Ohio	29.78	756.4	30.47	773.9	26	— 3.3	76	nw.	10	4.5			10 n		w.	0.02	0.5	light snow	R. B. Watkins.
Cleveland, Ohio	29.65	753.1	30.44	773.2	15.3	— 9.3	86	w.	12	5.4			10 s		w.	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.68	728.5	30.56	776.2	8	—13.3	100	n.	28	12.5			10 n		n.	0.06	1.5	light snow	L. Dorman.
Columbus, Ohio	29.53	750.0	30.43	772.9	26	— 3.3	76	nw.	10	4.5			10 s		n.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.55	725.2	30.57	776.5	7.2	—13.8	80	n.	16	7.2			10 n			0.07	1.8	light snow	J. McGlone.
Davenport, Iowa	29.98	761.5	30.68	779.3	—10	—23.3	51	w.	3	1.3		3 cs	0	w.		0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.35	643.9	30.31	769.9	9	—12.8	80	ne.	8	3.6		0	7 s		se.	0	0	fair	J. Williams.
Dayton, Washington T'y	28.82	732.0	30.63	778.0	—20	—28.9	53	ne.	5	2.2		0	0			0	0	clear	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.42	645.7	30.34	770.6	0	—17.8	75	calm	0	0		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.35	770.9	30.37	771.4	33	0.6	100	nw.	4	1.8			10 n		w.	0.30	7.6	light rain	T. S. Townsend.
Denison, Texas	29.79	756.7	30.63	778.0	10.0	—12.2	100	n.	9	4.0			10 s			0.07	1.8	cloudy	J. W. Byram.
Denver, Colorado	24.88	631.9	30.40	772.1	— 8.5	—22.5	53	s.	4	1.8		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.75	755.6	30.72	780.3	—15	—26.1	41	nw.	1	0.4		0	sk.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.67	753.6	30.42	772.7	10.2	—12.1	87	w.	8	3.6		0	4 s		w.	lnap.	inap.	fair	E. R. Brace.
Dodge City, Kansas	27.86	707.6	30.60	777.2	—10	—23.3	100	nw.	4	1.8		0	0			0	0	clear	V. P. Temple.
Dubuque, Iowa	29.90	759.4	30.66	778.7	—11.2	—24.0	33	w.	1	0.4		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.56	750.8	30.37	771.4	—19	—28.3	100	sw.	15	6.7		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.80	756.9	30.64	778.2	20.0	— 6.7	84	nw.	12	5.4			10 n			0.01	0.3	sleeting	F. Belford.
Eagle Rock, Idaho	25.53	648.5	30.43	772.9	—28	—33.3	100	n.	6	2.7		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.16	766.1	30.23	767.8	14.0	—10.0	80	w.	9	4.0			10 s		w.	0.05	1.3	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.61	701.3	30.51	774.9	— 3	—19.4	26	ne.			1	6 c	0	ne.		0	0	fair	W. J. Cundall.
El Paso, Texas	26.34	669.0	30.22	767.6	30.0	2.2	34	nw.	8	3.6		0	5 s		nw.	0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.61	752.1	30.38	771.6	18	— 7.8	83	w.	12	5.4			10 s		w.	lnap.	inap.	cloudy	Peter Wood.
Escanaba, Michigan	29.68	753.9	30.40	772.1	—14.0	—25.6	67	sw.	4	1.8		0	0			0	0	clear	George Heathcote.
Fredericksburg, Texas	28.63	727.2	30.43	772.9	15	— 9.4	83	n.	11	4.9			10 n			0.04	1.0	light snow	Frank Halwegler.
Galveston, Texas	30.31	769.9	30.36	771.1	31	— 0.6	88	n.	25	11.2			10 n		n.	0.06	1.5	sleeting	E. O'C. MacInerney.
Grand Haven, Michigan	29.78	756.4	30.50	774.7	6.0	—14.4	76	w:	24	10.7		0	9 ks		w.	0.01	0.3	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.20	640.1	30.06	763.5	32	0.0	47	e.	4	1.8		0	3 s		se.	0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.30	769.6	30.32	770.1	46	7.8	93	ne.	18	8.0			10 s		ne.	0	0	cloudy	R. M. Crawford.
Helena, Montana	26.03	661.2	30.43	772.9	—16	—26.7	100	calm	0	0		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.61	752.1	30.66	778.7	6	—14.4	76	n.	10	4.5			10 s			0	0	cloudy	J. P. Sherry.
Huron, Dakota	29.05	737.9	30.57	776.5	—10.5	—23.8	54	s.	9	4.0		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.71	754.6	30.56	776.2	8	—13.3	76	n.	5	2.2		0	6 s		n.	lnap.	inap.	fair	O. F. R. Wappenhans.
Indianola, Texas	30.38	771.6	30.41	772.4	24.0	— 4.4	73	n.	20	8.9			10 s		n.	0.04	1.0	cloudy	I. A. Reed.
Jacksboro, Texas	29.41	747.0	30.65	778.5	6	—14.4	76	n	12	5.4			10 s		nw.	0.01	0.3	cloudy	D. J. Carr.
Jacksonville, Florida	30.29	769.4	30.34	770.6	62	16.7	100	calm	0	0			fg.			0	0	dense fog	J. W. Smith.
Keogh, Fort, Montana	27.70	703.6	30.38	771.6	—18	—27.8	100	calm	0	0		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	30.02	762.5	30.72	780.3	— 7.0	—21.7	58	W.	4	1.8		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.18	766 6	30.20	767.1	71.0	21.7	90	ne.	8	3.6			10 s			0.18	4.6	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.32	770.1	30.34	770.6	43	6.1	100	ne.	12	5.4			10 s		e.	0.07	1.8	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.27	743.4	30.35	770.9	42.8	6.0	100	sw.	7	3.1			10s;fg			1.04	26.4	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.74	755.4	30.58	776.7	—15	—26.1	100	sw.	9	4.0		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.83	757.7	30.78	781.8	— 3	—19.4	65	calm	0	0		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.97	761.2	30.84	783.3	—10.0	—23.3	74	calm	0	0		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	30.23	767.8	30.56	776.2	25	— 3.9	88	n.	7	3.1			10 n			0.30	7.6	sleeting	W. U. Simons.
Los Angeles, California	29.65	753.1	30.05	763.3	43	6.1	73	n.	2	0.9			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.90	759.4	30.49	774.4	24	— 4.4	88	nw.	14	6.3			10 s		nw.	0.30	7.6	cloudy	L. M. Dey.
Lynchburg, Virginia	29.68	753.9	30.40	772.1	36.5	2.5	87	ne.	4	1.8			10 n			1.41	35.8	light rain	Louis Duane.
Mackinaw City, Michigan	29.62	752.3	30.32	770.1	— 9.0	—22.8	55	W.	19	8.5		0	0			0.12	3.0	clear	F. R. Day.
Macon, Fort, North Carolina	30.30	769.6	30.30	769.6	47.0	8.3	93	ne.	11	4.9			10 n		ne.	0.04	1.0	light rain	William Daly.
Madison, Wisconsin	29.50	749.3	30.59	777.0	—14	—25.6	72	W.	6	2.7		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.54	648.7	30.11	764.8	12	—11.1	53	n.	24	10.7		0	0			0	0	clear	F. Burke.
McKavett, Fort, Texas	28.14	714.7	30.52	775.2	10	—12.2	100	n.	13	5.8			10 s			0.03	0.8	cloudy	J. E. Thatcher.
Marquette, Michigan	29.49	749.0	30.27	768.8	—10	—23.3	51	W.	8	3.6		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	30.21	767.3	30.56	776.2	22	— 5.6	100	n.	9	4.0			10 n			0.80	20.3	light sleet	D. T. Flannery
Milwaukee, Wisconsin	29.78	756.4	30.58	776.7	— 9	—22.8	100	W.	11	4.9		0	0			0	0	clear	W. Line.
Missoula, Fort, Montana	27.21	691.1	30.64	778.2	—24	—31.1	100	nw.	4	1.8		0	0			0	0	clear	I. H. Young.
Mobile, Alabama	30.26	768.6	30.30	769.6	65	18.3	91	e.	1	0.4			10s;fg			0	0	cloudy	C. A. Read.
Montgomery, Alabama	30.07	763.8	30.31	769.9	57.5	14.2	95	W.	4	1.8			10 s		W.	0	0	cloudy	J. B. McLaughlin
Moorhead, Minnesota	29.27	743.4	30.37	771.4	—17	—27.2	100	W.	24	10.7		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.29	744.0	30.36	771.1	30.5	— 0.8	77	ne.	8	3.6			10 n			0.09	2.3	light snow	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.38	593.8	30.00	762 0	—10.0	—23.3	100	nw.	80	35.8		10 cs	0			0.34	8.6	cloudy	S. W. Beall.
Nashville, Tennessee	29.87	758.7	30.48	774.2	33.5	0.8	88	nw.	14	6.3			10 n		n.	0.52	13.2	sleeting	L. N. Jesunofsky.
New Haven, Connecticut	30.22	767.6	30.34	770.6	26	— 3.3	51	nw.	3	1.3			10 s			0.03	0.8	cloudy	J. H. Sherman.
New London, Connecticut	30.33	770.4	30.38	771.6	28	— 2.2	64	nw.	6	2.7			10 s			0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.24	768.1	30.30	769.6	62.0	16.7	90	n.	7	3.1			10 n		n.	lnap.	inap.	light rain	L. Dunne.
Newport, Rhode Island	30.30	769.6	30.35	770.9	30.0	— 1.1	67	W.	5	2.2			10 s			0.07	1.8	cloudy	W. McGillivray.
New York, New York	30.21	767.3	30.40	772.1	26	— 3.3	100	s.	5	2.2			10 s			lnap.	inap.	cloudy	J. B. Merrill.
Norfolk, Virginia	30.33	770.4	30.36	771.1	39	3.9	100	n.	6	2.7			10u;fg			0.40	10.2	light rain	Wm. Davis.
North Platte, Nebraska	27.50	698.5	30.60	777 2	—18.4	—28.0	70	nw.	8	3.6		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.53	775.4	30.57	776.5	9.0	—12.8	80	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.49	749.0	30.76	781.3	— 3.9	—19.9	62	calm	0	0		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska	30.28	769.1	30.30	769.6	12.4	—10.9	100	e.	15	6.7			10 n			0.21	5.3	light snow	P. H. Ray.
Oswego, New York	29.92	760.0	30.27	768.8	24.0	— 4.4	61	sw.	7	3.1			10 n		sw.	0.04	1.0	light snow	J. G. Linsley.
Palestine, Texas	29.96	761.0	30.54	775.7	17.5	— 8.1	76	n.	12	5.4			10 n		nw.	0.39	9.9	light snow	J. M. Pindell.
Pensacola, Florida	30.28	769 1	30.31	769.9	63.1	17.3	100	se.	1	0.4			fg.			lnap.	inap.	dense fog	M. McGauran.
Philadelphia, Pa	30.30	769.6	30.41	772 4	33.5	0.8	83	se.	3	1.3			10 n			0.18	4.6	light snow	E. M. Mattison.
Pike's Peak, Colorado	17.58	446.5	30.30	769.6	— 6	—21.1	75	W.			1	0	0			0	0	clear	H. Hall.
Pioche, Nevada	24.01	609.8	30.17	766.3	0.7	—17.4	84	nw.	12	5.4		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.52	749.8	30.38	771.6	27.5	— 2.5	94	nw.	1	0.4			10 s			0.17	4.3	cloudy	W. A. Reid.
Poplar River, Montana	28.00	711.2	30.35	770.9				nw			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.28	769.1	30.29	769.4	61.0	16.1	93	e	5	2.2			10s;fg			0	0	cloudy	H. B. Boyer.
Port Huron, Michigan	29.67	753.6	30.40	772.1	3.4	—15.9	87	sw.	3	1.3		3 c	0			lnap.	inap.	clear	W. O. Bailey.
Portland, Maine	30.25	768.3	30.30	769.6	23.5	— 4.7	80	nw.	2	0.9			10 s		n.	0.02	0.5	cloudy	W. W. Eichelberger.
Portland, Oregon	30.46	773.7	30.54	775.7	10.0	—12.2	70	e.	2	0.9		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					47	8.3	93	ne.	13	5.8			10 s			0	0	cloudy	F. S. Coburn.
Prescott, Arizona	24.69	627.1	30.05	763.3	18.3	— 7.6	84	sw.	1	0.4		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.30	769.6	30.33	770.1	26.5	— 3.1	77	W.	5	2.2			10 s		w.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.25	768.3	30.26	768.6	67	19.4	97	ne.	0	2.7			fg.		ne.	lnap.	inap.	clear	W. J. Evans.
Red Bluff, California	29.86	758.4	30.23	767.8	30	— 1.1	67	n.	16	7.2		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.58	751.3	30.29	769.4	18	— 7.8	91	W.	4	1.8			10u;sk			lnap.	inap.	light snow	E. W. McGann
Roseburg, Oregon	29.83	757.7	30.40	772.1	13	—10.6	80	ne.	2	0.9		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	30.05	763.3	30.13	765.3	30.2	— 1.0	68	nw.	16	7.2		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	30.11	764.8	30.75	781.0	0.0	—17.8	53	nw.	9	4.0		0	6 s		nw.	0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	30.57	776.5	30.61	777.5	26	— 3.3	88	s.	18	8.0		0	5 s		s.	0	0	fair	A. P. Leavitt.
St. Paul, Minnesota	29.56	750 8	30.50	774.7	—16.0	—26.7	100	sw.	10	4.5		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.14	740.1	30.11	764.8	—13	—25.0	81	sw.	7	3.1		0	0			0	0	clear	C. B Dilley.
Salt Lake City, Utah	25.88	657.3	30.44	773.2	3	—16.1	76	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.74	755.4	30.46	773.7	21.5	— 5.8	90	n.	7	3.1			10 n			0.03	0.8	sleeting	T. J. Kenan.
San Diego, California	29.97	761.2	30.04	763.0	39.4	4.1	77	ne.	7	3.1		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.73	755.1	30.45	773.4	13.2	—10.4	80	nw.	18	8.0			10 s		n.	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.37	771.4	30.40	772.1	27.0	— 2.8	88	nw.	2	0.9			10 n			0.07	1.8	heavy snow	B. A. Blundon.
San Francisco, California	30.07	763.8	30.14	765.5	36	2.2	46	n.	12	5.4		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.23	590.0	30.31	769 9	26	— 3.3	58	W.	2	0.9		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.25	768.3	30.34	770.6	61.5	16.4	86	s.	2	0.9			fg.			0	0	dense fog	H. W. Ford.
Shaw, Fort, Montana	26.52	673.6	30.37	771.4	7	—13.9	58	sw.	20	8.9		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.25	768.3	30.50	774.7	29	— 1.7	100	n.	8	3.6			10 s		n.	0.05	1.3	threatening	E. N. Meekins.
Sill, Fort, Indian Territory	29.40	746.7	30.71	780.0	4.5	—15.3	65	n.	18	8.0			10 ks		nw.	0	0	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.28	616.7	30.13	765.3	29.0	— 1.7	77	n.	3	1.3		0	6 ks			0	0	fair	N. D. Lane.
Sitka, Alaska	30.64	778.2	30.71	780.0	32	0.0	78	ne.	6	2.7		0	0			0.03	0.8	clear	F. W. Fickett.
Smith, Fort, Arkansas	30.13	765.3	30.63	778 0	14.0	—10.0	80	nw.	14	6.3			10 s			0.05	1.3	cloudy	J. B. Campbell.
Smithville, North Carolina	30.26	768.6	30.30	769.6	59	15.0	100	w.	8	3.6			fg.			0.04	1.0	dense fog	O. Parker.

STATIONS.	Barometer: Corrected for instrumental error and for temperature.		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.56	725.4	30.69	779.5	—11.3	—24.1	64	e.	1	0.4	.....	0	0	.....	.....	0	0	clear..	H. Clifford.
Springfield, Illinois	30.00	762.0	30.72	780.3	— 1	—18.3	83	nw.	2	0.9	.....	5 c	0	w.	.....	0	0	fair.....	T. B. Jennings
Springfield, Missouri	29.14	740 1	30.65	778.5	4.0	—15.6	72	n.	12	5.4	.....	.....	10 s	.....	n.	inap.	inap.	cloudy.....	J. H. Bryce.
Starkville, Miss	29.95	760.7	30.45	773.4	34	1.1	89	n.	11	4.9	.....	.....	10 s	.....	n.	0.18	4.6	cloudy.....	C. Dill.
Stevenson, Fort, Dakota	28.24	717.3	30.26	768.6	— 3	—19.4	68	nw.	16	7.2	.....	0	0	.....	.....	0	0	clear.....	A. Schneider.
Stockton, Fort, Texas	27.35	694.7	30.48	774.2	11	—11.7	76	n.	8	3.6	.....	.....	10 s	.....	n.	0	0	cloudy..	A. J. Warren.
Thatcher's Island, Mass	30.30	769.6	30.36	771.1	22.5	— 5.3	80	nw.	11	4.9	.....	.....	10 s	.....	.....	0.06	1.5	cloudy.....	G. Liebmann.
Thomas, Camp, Arizona	27.25	692.1	30.08	764.0	22	— 5.6	87	calm	.....	.....	0	0	0	.....	.....	0	0	clear.....	J. T. Fitzgerald.
Toledo, Ohio	29.71	754.6	30.45	773.4	15	— 9.4	83	w.	10	4.5	.....	6 cs	0	w.	.....	inap.	inap.	fair.....	A. Buell.
Tucson, Arizona	27.54	699.5	30.02	762.5	32	0.0	71	s.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	J. L. Whiteside
Umatilla, Oregon	30.49	774.4	30.87	784.1	—18	—27.8	100	se.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	20.2	— 6.6	46	nw.	.....	.....	1	0	0	.....	.....	0	0	clear.....	O. L. Pease.
Vicksburg, Mississippi	30.17	766.3	30.44	773.2	36.0	2.2	89	n.	9	4.0	.....	.....	10n;fg	.....	.....	0.03	0.8	light rain....	James Kenealy.
Visalia, California	29.72	754.9	30.10	764.5	34.4	1.3	89	nw.	2	0.9	.....	.....	10 s	.....	.....	0	0	threatening.	O. D. Stewart
Washakie, Fort, Wyoming	24.68	626 9	30.44	773 2	—47.9	—44.4	.....	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	T. M. Ambler.
Washington, D. C	30.31	769.9	30.43	772.9	32.3	0.2	89	calm	0	0	.....	.....	10 n	.....	sw.	0.29	7.4	light rain....	B. M. Purssell.
West Las Animas, Colorado	26.42	671.1	30.54	775.7	—17	—27.2	100	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	F. H. Brandenburg
Williamsport, Pa	29.73	755.1	30.36	771.1	29	— 1.7	67	sw.	3	1.3	.....	.....	10 ks	.....	sw.	0.06	1.5	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.24	768.1	30.30	769.6	64	17.8	93	w.	7	3.1	.....	.....	10 s	.....	sw.	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.77	654.5	30.29	769.4	— 7.0	—21.7	78	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	J. Grover.
Yankton, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. H. Atfield.
Yuma, Arizona	29.82	757.4	29.97	761.2	42.5	5.8	46	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.00	558.8	.....	.....	48.0	8.9	67	e.	3	1.3	.....	6 c	1 s	w.	w.	0	0	fair.....	Joaquin Gomez.
Kingston, Jamaica, W. I	30.08	764.0	30.09	764.3	71	21.7	81	calm	0	0	.....	0	2 s	.....	e.	0	0	clear.....	Robert Johnston.
Paramaribo, S. A	30.03	762.7	30.03	762.7	76	24.4	91	e.	.....	.....	3	.....	10 n	.....	e.	1.700	43.2	raining	Dr. C. J. Hering.
Puerto Berrio, U. S. Colombia	29.31	744.5	29.87	758.7	76	24.4	94	calm	.....	.....	0	0	6 k	.....	sw.	0	0	fair.....	Francisco J. Cisneros.
Rivas, Nicaragua, C. A	.....	.....	.....	.....	76	24.4	87	ne.	.....	.....	9	0	1 ks	.....	.....	0	0	clear.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.80	782.3	30.86	783.8	32	0.0	78	calm	.....	.....	0	4 c	0	.....	.....	0	0	clear.....	W. J. Fisher.
St. Thomas, W. I	30.06	763.5	30.19	766.8	74	23.3	82	e.	.....	.....	.....	1 k	4 k	e.	e.	0.03	0.8	fair.....	Aug. Walloe.
Havana, Cuba	30.10	764.5	30.16	766.1	68.2	20.1	93	e.	3	1.3	.....	0	1 k	.....	se.	0	0	foggy.....	Benito Vines, S. J.
York Factory H. B. A	30.14	765.5	30.21	767.3	—29.0	—33.9	.....	sw.	14	6.3	.....	2 k	1 s	sw.	sw.	0	0	fair.....	Fortesque & Wood.

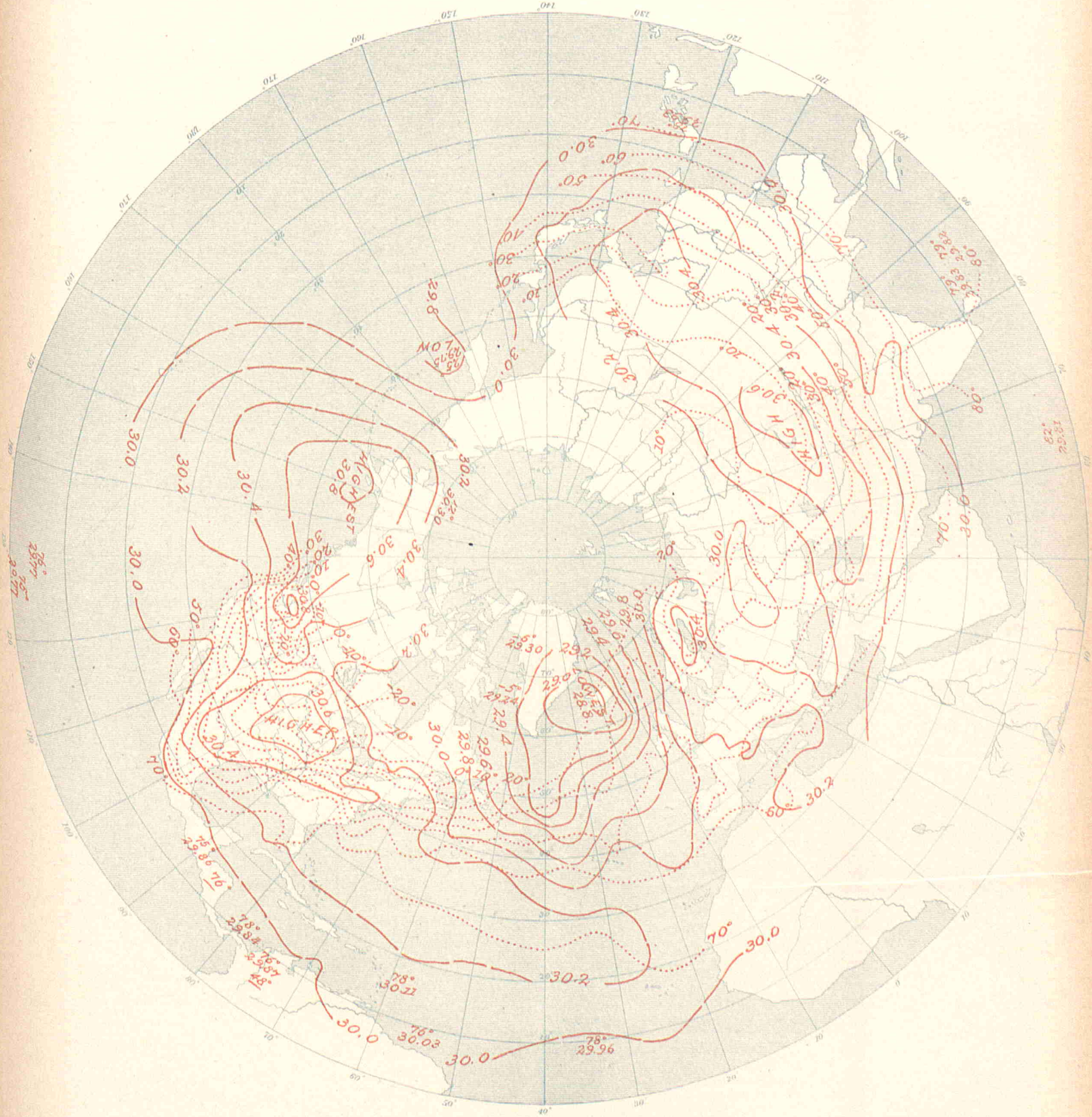
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell. Character.	Sea-swell. Direction from	Weather.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. Dock-Yard, Bermuda, W. I	30.39	771.9	66	18.9	76	sse.	.....	.....	1–2	.....	9	sse.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Fawn, N. 1° 00′, W. 23° 16′	29.92	760.0	80	26.7	95	ene.	.....	.....	3	.....	5	ene.	.....	.....	.....	2	ene.	d. clouds.
H. M. S. Iron Duke, N. 35° 53′, E. 14° 30′	30.26	768.6	60	15.6	70	sse.	.....	.....	1	.....	3	sse.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Monarch, Port Said, Egypt	30.19	766.8	64	17.8	62	wsw.	.....	.....	1–2	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. Tyne, N 4° 24′, W 3° 15′	29.95	760.7	84	28.9	79	ssw.	.....	.....	1–2	.....	2	calm	.....	.....	.....	1	ssw.	misty.
U. S. Navy Yard, Portsmouth, N. H*	30.32	770.1	26	— 3.3	?	nw.	10	4.5	.....	.....	10	.....	nw.	0	0	.....	.....	cloudy.
U. S. S. Alliance, N. 23° 00′, W. 84° 07′	30.22	767.6	77	25.0	90	ene.	.....	.....	3	.....	2	.....	.....	0	0	mod.	.....	clear.
U. S. S. Enterprise, St Vincent, Cape Verde Islands*	30.17	766.3	70	21.1	71	ne.	.....	.....	3	.....	2	.....	sw.	.....	.....	sm'h	.....	clear.
U. S. S. Jamestown, N. 24° 10′, W. 52° 08′	30.30	769.6	72	22.2	80	ene.	.....	.....	6	.....	5	.....	ene.	.....	.....	r'gh	e.	fair.
U. S. S. Kearsarge, Curacoa Island, W. I	29.98	761.5	79	26.1	95	ene.	.....	.....	4	.....	5	.....	e.	.....	.....	.....	.....	fair.
U. S. S. Lancaster, Gibraltar, Mediterranean	30.12	765.0	58	14.4	100	calm	.....	.....	0	.....	10	.....	calm	.....	.....	sm'h	.....	cloudy.
U. S. S. Nipsic, N. 22° 53′ W. 36° 48′	30.33	770.4	71	21.7	67	ne.	.....	.....	3	.....	5	.....	.....	.....	.....	long	ne.	fair.
U. S. S. Portsmouth, Bridgetown Barbadoes	30.10	764.5	77	25.0	86	ene.	.....	.....	3	.....	2	.....	e.	.....	.....	mod.	ene.	fair.
U. S. S. Quinnebaug, Villefranche, France	30.22	767.6	61	16.1	70	sse.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. St. Louis, League Island, Pa	30.42	772.7	30	— 1.1	100	s.	4	1.8	.....	.....	10	.....	.....	.....	.....	.....	.....	snowing
U. S. S. Tennessee, St. Thomas, W. I*	30.13	765.3	78	25.6	86	ene.	12	5.4	.....	.....	2	.....	ne.	0.03	0.8	sm'h	.....	showery.
U. S. S. Vandalia, N. 19° 28′, W. 73° 25 *	30.12	765.0	77	25.0	77	ne.	.....	.....	3	.....	1	.....	calm	.....	.....	sm'h	.....	clear.
U. S. S. Vantic, Belize, British Honduras	30.06	763.5	78	25.6	95	ne.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	cloudy
S. S. British Crown, N. 38° 52′, W. 63° 29′ †	30.18	766.6	54	12.2	.....	n.	.....	.....	4	.....	10	.....	.....	3 h'r	3 h'r	con.	.....	overcast.
S. S. British Prince, N. 50° 07′ E. 27° 17′ †	29.57	751.1	37	2.8	.....	sw.	.....	.....	6	.....	9	.....	sw.	4 h'r	4 h'r	h'vy	wsw.	hailing.
S. S. Indiana, Philadelphia, Pa	.....	.....	28	— 2.2	88	n.	.....	.....	3	.....	10	.....	n.	h'vy	h'vy	...	.....	snowing.
S. S. Lord Clive, N. 51° 22′, W. 18° 26′	.....	.....	.....	.....	.....	ssw.	.....	.....	4	.....	6	.....	sw.	.....	.....	high	var.	fine
S. S. Pennsylvania, N. 49° 50′, W. 30° 38′ †	29.41	747.0	41	5.0	91	wnw.	.....	.....	4	.....	8	.....	nnw.	7 h'r	7 h'r	mod.	nw.	cloudy
S. S. Circassian, N. 53° 50′, W. 28° 43′ *	29.21	741.9	34	1.1	79	wsw.	.....	.....	6	.....	6	.....	wsw.	3 h'r	3 h'r	5	w.	snowing.
S. S. Manitoban, N. 52° 34′, W. 30° 19′	29.33	745.0	32	0.0	.....	w.	.....	.....	4	.....	6	.....	w.	5 h'r	5 h'r	cross	var.	fair.
S. S. Scandinavian, N. 43° 39′, W. 55° 25′	29.92	760.0	26	— 3.3	.....	w.	.....	.....	6	.....	10	.....	w.	11 h'r	11 h'r	con.	w.	overcast.
S. S. Stella, N. 40° 12′, W. 70° 18′	30.33	770.4	32.0	0	.....	ne.	.....	.....	2	.....	9	.....	nne.	5 h'r	5 h'r	2	nne.	squally.
S. S. Ailsa, Cartagena, U. S. C†	29.86	758.4	78	25.6	82	ne.	.....	.....	7	.....	8	.....	ne.	0	0	rg'h	ne.	cloudy.
S. S. Anchoria, N. 40° 30′, W. 69° 00′ †	30.23	767.8	.....	.....	.....	n.	.....	.....	2	.....	10	.....	w.	0	0	sm'h	.....	cloudy.
S. S. Assyria, N. 35° 21′, W. 8° 56′	30.06	763 5	62	16.7	83	ssw.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	ssw.	fine.
S. S. Dorian, N. 41° 56′, W. 46° 25′	29.85	758.2	57	13.9	.....	nw.	.....	.....	7	.....	10	.....	nw.	12 h'r	12 h'r	r'gh	nw.	cloudy.
S. S. Galatia, N. 34° 29′ E. 18° 11′ †	30.21	767.3	64	17.8	75	sse.	.....	.....	3	.....	5	.....	sse.	.....	.....	mod.	se.	fine.
S. S. Landaff City, N. 42° 45′, W. 59° 00′ †	30.00	702.0	26	— 3.3	.....	nw.	.....	.....	6	.....	10	.....	wnw.	rain	rain	high	wnw.	cloudy.
S. S. Bothnia, N. 46° 11′ W. 40° 33′	29.30	744.2	43	6.1	83	sw.	.....	.....	4	.....	8	.....	ne.	snow	snow	r'gh	sw.	cloudy.
S. S. Gallia, N. 42° 16′, W. 56° 12′	.....	.....	40	4.4	64	nw.	.....	.....	6	.....	8	.....	nw.	.....	.....	mod.	wnw.	gloomy.
S. S. Pavonia, N. 51° 32′, W. 14° 20′	29.52	749.8	52	11.1	79	s.	.....	.....	5	.....	10	.....	s.	.....	.....	mod.	s.	cloudy.
S. S. Colina, N. 51° 25′, W. 18° 49 †	29.42	747.3	.....	.....	.....	wsw.	.....	.....	1	.....	3	.....	w.	3 h'r	3 h'r	mod.	con.	clear.
S. S. Labradore, N. 43° 50′, W. 45° 31′	.....	.....	46.4	8	.....	sw.	.....	.....	7	.....	9	.....	wsw.	snow	snow	h'vy	w.	
S. S. Pereire, N. 50° 04′, W. 11° 40 ††	29.74	755.3	50.0	10	.....	se.	.....	.....	2.3	.....	10	.....	ese.	8 h'r	8 h'r	h'vy	.....	rainy.
S. S. Ville de Marseilles, Vera Cruz, Mexico	.....	.....	67	19.4	.....	nnw.	.....	.....	7	.....	8	.....	nw.	sh'rs	sh'rs	r'gh	nnw.	cloudy.
S. S. Arizona, N. 42° 23′ W. 59° 13′	30.07	763.8	35	1.7	.....	nw.	.....	.....	5	.....	10	.....	nw.	o	o	mod.	wnw.	squally.
S. S. Abyssinia, N. 51° 08′, W. 13° 00′	29.65	753.1	50	10.0	100	s.	.....	.....	6	.....	10	.....	sw.	4 h'r	4 h'r	r'gh	sw.	overcast.
S. S. Bohemia, N. 52° 17′ E. 2° 56′ †	30.15	765.8	.....	.....	.....	w.	.....	.....	4–5	.....	5 8	.....	.....	o	o	.....	.....	fair.
S. S. Silesia, N. 50° 24′, W. 12° 03′ †	29.82	757.4	46.0	7.8	93	sw.	.....	.....	1–2	.....	9	.....	.....	4 h'r	4 h'r	7	ssw.	rainy.
S. S. Bulgarian, N. 50° 37′, W. 10° 05′ *	29.61	752.1	.....	.....	.....	sw.	.....	.....	5	.....	10	.....	w.	1 h'r	1 h'r	high	sw.	cloudy.
S. S. Virginian, Boston, Mass	30.31	769.9	27	— 2.8	.....	wnw.	.....	.....	3	.....	10	.....	sw.	o	o	.....	.....	hazy.
S. S. Colorado, N. 36° 22′, W. 75° 13′ †	30.30	769.6	43	6.1	.....	e.	.....	.....	5	.....	10	.....	e.	10 h'r	10 h'r	high	e.	cloudy.
S. S. San Marcos, N. 24° 32′ W. 81° 00′	30.01	762.2	77	25.0	.....	e.	.....	.....	6	.....	8	.....	e.	o	o	h'vy	ene.	fine.
S. S. Chalmette, N. 32° 18′, W. 78° 00′ †	30.35	770.9	74	23.3	.....	s.	.....	.....	3	.....	4	.....	se.	½h'rs	½h'rs	mod.	e.	clear.
S. S. Lone Star, N. 24° 27′, W. 81° 34′ †	30.23	767.8	74	23.3	.....	e.	.....	.....	1	.....	5	.....	.....	2 h'r	2 h'r	small	se.	rain-squalls
S. S. Hermod, N. 43° 00′, W. 45° 20′ †	29.57	751.1	60.8?	16?	.....	w.	.....	.....	10	.....	10	.....	w.	o	o	high	w.	threatening.
S. S. Alleghany, N. 40° —′, W. 73° —′	.....	.....	30.	— 1.1	.....	n.	.....	.....	2	.....	0?	.....	.....	light	light	light	ne.	snowing?

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Archimede, Gibraltar, Mediterranean†	30.16	766.1	66	18.9	.....	ne.	.....	.....	2	.....	5?	.....	ne.	1 h'r	1 h'r	.....	.....	cloudy?
S. S. Picqua, N. 38° 18′, W. 52° 00′*†	30.15	765.8	68	20.0	.....	w.	.....	.....	5	.....	5?	.....	w	0	0	h'vy	nw.	overcast.?
S. S. City of Washington, N. 25° 55′, W. 80° 00′†	30.31	769.9	80	26.7	.....	se.	.....	.....	2	.....	5	.....	se.	0	0	sm'h	.....	fine.
S. S. Santiago, Santiago, Cuba, W. I	30.10	764.5	75	23.9	.....	n.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	fine.
S. S. Erin, N. 42° 13′, W. 62° 05′	30.17	766.3	28	— 2.2	.....	w.	.....	.....	6	.....	10	.....	w.	8 h'r	8 h'r	r'gh	w.	gloomy.
S. S. Greece, N. 49° 46′, W. 16° 43′	.....	.....	47	8.3	.....	wsw.	.....	.....	6	.....	8	.....	sw.	14 h'r	14 h'r	long	sw.	fair.
S. S. America, N. 38° 37′, W. 67° 27′*	30.36	771.1	46.5	8.1	92	nne.	.....	.....	5	.....	10	.....	n.	0	0	sm'h	n.	covered.
S. S. Braunschweig, N. 11° 07′, W. 27° 11′	30.07	763.8	75.5	24.2	72	nne.	.....	.....	4	.....	5	.....	nne.	0	0	light	nne.	fair.
S. S. Hermann, N. 45° 46′, W. 39° 45′	29.17	740.9	50.9	10.5	100	s.	.....	.....	6	.....	8	.....	s.	3 h'r	3 h'r	5	s.	raining.
S. S. Muriel, N. 36° 31′, W. 71° 43′*	30.19	766.8	60	15.6	.....	ne.	.....	.....	4	.....	8	.....	.....	.....	.....	mod.	sw.	fair
S. S. Belgenland, N. 40° 22′, W. 69° 53′*†	30.40	772.1	36	2.2	61	n.	.....	.....	2	.....	10	.....	n.	1 h'r	1 h'r	sm'h	.....	cloudy.
S. S. Nederland, N. 49° 46′, W 7° 22′	.....	.....	54	12.2	93	s.	.....	.....	4	.....	8	.....	sw.	0	0	cross	sw.	cloudy.
S. S. Rhynland, Antwerp Belgium	.....	.....	45	7.2	76	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	very fine.
S. S. Pennland, N. 49° 23′, W. 17° 59′	29.68	753.9	56	13.3	87	s.	.....	.....	3	.....	8	.....	sw.	0	0	long	w.	raining.
S. S. Waesland, N. 47° 12′, W. 42° 43′	29.27	743.4	30	— 1.1	.....	e.	.....	.....	4	.....	10	.....	se.	5 h'r	5 h'r	long	nnw.	snowing.
S. S. Zeeland, N. 49° 57′, W. 17° 15′*†	29.54	750.3	52	11.1	.....	ssw.	.....	.....	5	.....	5?	.....	sse.	rain	rain	long	ssw.	clear.?
S. S. P. Caland, N. 49° 55′, W. 13° 35′	29.62	752.3	52.9	11.6	90	ssw.	.....	.....	5	.....	10	.....	wsw.	.....	.....	5	sw.	cloudy.
S. S. Schiedam, N. 49° 46′, W. 11° 39′	29.65	753.1	52.5	11.4	.....	s.	.....	.....	6	.....	7	.....	se.	9 h'r	0 h'r	h'vy	s.	sprinkling.
S. S. Zaandam, N. 42° 16′, W. 61° 50′	30.18	766.6	51.4	10.8	84	nw.	.....	.....	3	.....	8 n	.....	nw.	6 h'r	6 h'r	3	w.	squally.
S. S. Claudius, Greytown, Nicaragua, C. A†	30.05	763.3	78.2	25.7	82	ne.	.....	.....	4	.....	4	.....	ene.	h'vy	h'vy	long	ne.	rainy.
S. S. Valencia, La Guayra, Venezuela†	30.03	762.7	77	25.0	82	ene.	.....	.....	5	.....	5	.....	ene.	2 h'r	2 h'r	h'vy	ne.	fine.
S. S. State of Florida, N. 55° 23′, W. 8° 00′	.....	.....	49	9.4	.....	sw.	.....	.....	6	.....	2	.....	sw.	0	0	h'vy	ssw.	clear.
S. S. State of Indiana, N. 46° 24′, W. 43° 16′	.....	.....	35	1.7	.....	ne.	.....	.....	4	.....	10	.....	nw.	12 h'r	12 h'r	cross	var.	squally.
S. S. Romano, N. 41° 02′, W. 48° 11′ *	29.84	757.9	52	11.1	.....	wsw.	.....	.....	7	.....	10	.....	nw.	8 h'r	8 h'r	h'vy	wsw.	drizzling.
S. S. Salerno, N. 50° 32′, W. 1° 44′ †	30.20	767.1	50	10.0	.....	s.	.....	.....	4	.....	8	.....	se	0	0	sm'h	w.	cloudy.
S. S. Brooklyn, N. 50° 38′ W. 26° 57′	.....	.....	40	4.4	.....	wsw.	.....	.....	6	.....	.....	.....	wsw.	4 h'r	4 h'r	h'vy	wsw.	squally.
S. S. Dominion, N. 51° 14′, W. 13° 12′*†	29.74	755.4	50	10.0	.....	s.	.....	.....	4	.....	8	.....	s.	12 h'r	12 h'r	h'vy	s.	cloudy.
S. S. Surrey, N. 46° 35′, W. 37° 29′ †	.....	.....	35	1.7	.....	sw.	.....	.....	6	.....	8	.....	w.	4 h'r	4 h'r	mod.	var.	cloudy.
S. S. Lake Huron, N. 42° 07′, W., 55° 25′	.....	.....	36	2.2	.....	w.	.....	.....	6	.....	8	.....	w.	4 h'r	4 h'r	r'gh	var.	
S. S. Plantyn, N. 50° 20′, W. 17° 21′	29.53	750.0	.....	.....	.....	.....	.....	.....	7	.....	7	.....	nw.	0	0	high	sw.	gale.
S. S. Catherine Whiting, Delaware Bay†	30.42	772.9	72	22.2	.....	n.	.....	.....	1	.....	.....	.....	.....	snow	snow	.....	.....	
S. S. Norman, N. 39° 59′, W. 75° 08′*†	30.35	770.9	.....	.....	.....	ese.	.....	.....	1	.....	.....	.....	.....	light	light	.....	.....	cloudy.
S. S. Saxon, Boston, Mass†	29.93	760.2	.....	.....	.....	nnw.	.....	.....	.....	.....	10	.....	.....	.....	.....	.....	.....	
S. S. Adriatic, N. 45° 38′, W. 42° 56′†	29.30	744.2	46	7.8	.....	w.	.....	.....	8	.....	9	.....	wsw.	4 h'r	4 h'r	r'gh	wsw.	hazy.
S. S. Baltic, N. 43° 44′, W. 46° 33′*	29.51	749.5	44	6.7	92	w.	.....	.....	0	.....	9	.....	wnw.	snow	snow	r'gh	wnw.	snowing.
S. S. Britannic, N. 40° 40′, W. 71° 35′†	30.29	769.4	31	— 0.6	100	wnw.	.....	.....	4	.....	10	.....	nw.	2 h'r	2 h'r	sm'h	wsw.	overcast.
S. S. Iowa, N. 45° 24′, W. 43° 52′*†	29.37	746.0	47	8.3	.....	sw.	.....	.....	8	.....	9	.....	sw.	11 h'r	11 h'r	mod.	sw.	threatening.
S. S. Antonio Lopez, N. 25° 22′, W. 33° 30′	30.29	769.4	71	21.7	75	n.	.....	.....	5	.....	3	.....	.....	2 h'r	2 h'r	mod.	n.	clear.
Schr. Abbie H Ghesn, N. 37° 00′ W. 75° 20′†	30.41	772.4	45	7.2	.....	ene.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	stormy.
Bg. Abbie Clifford, N. 23° 25′, W. 81° 20′†	30.20	767.1	75	23.9	.....	e.	.....	.....	2	.....	5	.....	e.	0	0	sm'h	.....	fine.
Bg. Alcira, Maracaybo, Venezuela, S. A.	30.00	762.0	83	28.3	.....	ene.	.....	.....	2	.....	2	.....	ne.	0	0	.....	.....	clear.
Schr. Annie A. Holton, Tampico, Mexico†	30.21	767.3	62	16.7	.....	n.	.....	.....	4	.....	10	.....	n.	4 h'r	4 h'r	sm'h	.....	foggy.
Schr. Annie R. Lewis, St Pierre, Martinique, W. I†	30.17	766.3	77	25.0	.....	ene.	.....	.....	1	.....	8	.....	ne.	3 h'r	3 h'r	.....	.....	raining.
Schr. Annie Thorman, N. 1° 41′, W. 27° 20′*	30.06	763.4	78.1	25.6	83	ene.	.....	.....	4	7 ck	0	ne.	.....	shr's	shr's	r'gh	ne.	cloudy.
Bk. Aureola, Swansea, Wales*†	.....	.....	48	8.9	.....	sse.	.....	.....	6	.....	7	.....	s.	2 h'r	1 h'r	.....	.....	cloudy
Bk. Achille F., N. 44° —′, W. 20° —′†	29.81	757.2	43	6.1	92	ssw.	.....	.....	4	.....	8	.....	sw.	3 h'r	3 h'r	h'vy	wsw.	squally.
S. Armenia, N. 34° 50′ W. 50° —′*	30.28	709.1	63	17.2	83	w.	.....	.....	6	.....	9	.....	w.	0	0	mod.	nnw.	
Bg. Belle of the Bay, N. 29° 22′, W. 88° 22′†	30.17	766.3	.....	.....	.....	ene.	.....	.....	5	.....	0	.....	.....	0	0	mod.	e.	foggy.
Bk. Bremen, N. 27° 49′, W. 67° 53′*	30.38	771.0	.....	.....	.....	ese.	.....	.....	5	.....	2	.....	ese.	0	0	cross	var.	clear.
S. S. Benledi, N. 39° 34′, W. 66° 30′ *	30.19	766.8	55	12.8	93	nnw.	.....	.....	4	.....	8	.....	.....	3 h'r	3 h'r	cross	var.	cloudy.
Bkt. Bonny Doon, N. 26° 12′, W. 62° 30′*†	30.28	709.1	.....	.....	.....	e.	.....	.....	1	.....	2?	.....	ene.	0	0	long	e.	cloudy?
Bk. Bare, N. 33° 37′, W. 40° 00′..	.....	.....	66	18.9	.....	w.	.....	.....	3	.....	4	.....	nw.	0	0	sm'h	nnw.	fair.
Bk. Pilgrim, N. 40° 02′, W. 63° 50′*†	30.25	708.3	.....	.....	.....	ssw.	.....	.....	3	.....	10	.....	.....	3 h'r	3 h'r	mod.	s.	overcast.
Bk. Champion, N. 40° 27′, W. 58° 54′†..	29.95	760.7	58	14.4	.....	nw.	.....	.....	5	.....	8	.....	n.	6 h'r	6 h'r	long	w.	
Bkt. C. S. Bushnell, N. 36° 00′, W. 26° 21′	30.03	762.7	.....	.....	.....	nw.	.....	.....	6	.....	5	.....	nw.	light	light	h'vy	nw.	squally.
S. Cornelius, N. 59° 12′, W. 16° 36′†..	28.86	733.0	46.6	8.1	.....	sw.	.....	.....	8	.....	8	.....	sw.	8 h'r	8 h'r	h'vy	se.	squally.
Bk. Commerce, Cadiz, Spain†	30.05	764.3	64	17.8	.....	s.	.....	.....	4	.....	5	.....	ssw.	3 h'r	3 h'r	.....	.....	fine.
Bk. Ceres, N. 26° 33′ W., 36° 17′*	30.34	770.6	68.4	20.2	66	ene.	.....	.....	5	.....	9	.....	ne	½h'r	½h'r	sm'h	ne.	cloudy.
Bk. Chas. Stewart, N. 34° 50′, W. 56° 50′†	30.21	707.3	66	18.9	.....	wsw.	.....	.....	7	.....	5	.....	wsw.	0	0	mod.	sw.	
Schr. Edith R. Seward, N. 18° 20′, W. 69° 58′ †	30.16	766.1	78	25.6	.....	nne.	.....	.....	2	.....	2	.....	ene.	½h'r	½h'r	r'gh	ese	clear.
S. E. J. Spicer, N. 43° 21′, W. 24° 25′	29.81	757.2	50	10.0	93	nw.	.....	.....	5	.....	5	.....	nw.	hail	hail	mod.	nw.	fair
S. Festina Lente, N. 58° 46′, W. 18° 37′	28.90	734.0	43	6.1	.....	w.	.....	.....	6	.....	10	s.	n.	12 h'r	12 h'r	h'vy	var.	cloudy.
S. Grecian, N. 2° 00′, W. 27° 10′†	30.02	762.5	78	25.6	90	e.	.....	.....	3	.....	8 n	.....	var.	2 h'r	2 h'r	mod.	nne.	
Bk. Grey Eagle, N. 15° 49′, W. 52° 50′	.....	.....	.....	.....	.....	e.	.....	.....	6	.....	5?	.....	ne.	0	0	light	sne.	clear?
Bg. George, N. 22° 40′, W. 68° 40′*†	30.33	770.4	.....	.....	.....	e.	.....	.....	4	.....	0	.....	.....	sh'rs	sh'rs	r'gh	e.	
Bk. Galeon, Cardiff, Eng	.....	.....	44	6.7	.....	se.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	
Bk. Henrich & Tonio, N. 29° 58′, W. 65° 12′†	30.34	770.6	67	19.4	.....	se.	.....	.....	3	.....	2	.....	se.	0	0	long	se.	clear
Schr. Hattie Weston, Mayaro, Trinidad, W. I *†	30.05	763.3	78	25.6	.....	ene.	.....	.....	4	.....	10	.....	ene.	½h'r	½h'r	mod.	e.	cloudy.
Bk. Hattie G. McFarland, N. 24° 20′, W. 86° 00′ *†	30.30	769.6	78	25.6	.....	e.	.....	.....	5	.....	8	.....	e.	2 h'r	2 h'r	short	e.	showery
Bk. Horace Scudder, N. 28° 43′, W. 48° 42′ *†	30.45	773.4	66	18.9	.....	ene.	.....	.....	4	.....	10	.....	e.	0	0	long	ne.	cloudy.
S. S. J. W. Wilson, Brazos, Santiago, Texas* †	30.24	768.1	30	— 1.1	.....	nw.	.....	.....	6	.....	fg.	.....	.....	0	0	.....	.....	foggy.
Bk. Johanne, N. 31° 41′, W. 09° 58′ *†	30.40	772 1	72	22.2	.....	sw.	.....	.....	3	.....	2	.....	var.	0	0	sm'h	e.	clear.
Schr. John L. Thomas, Vivorilla Cays, C. A*†	30.08	764.0	.....	.....	.....	ene.	.....	.....	0	.....	2	.....	e.	½ h'r	½ h'r	.....	.....	snowing.
Bg. L. & W. Armstrong, N. 24° 50′, W. 59° 45′*†	30.40	772.1	.....	.....	.....	ene.	.....	.....	6	.....	2	.....	e.	0	0	long	e.	light clouds
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764 3	.....	.....	.....	calm	.....	.....	0	.....	0	.....	e.	0	0	.....	.....	fine.
Bk. Mary A. Troop, Kings Road, Eng*†	30.06	763.5	.....	.....	.....	wsw.	.....	.....	4	.....	3	.....	wsw.	0	0	.....	.....	fair.
Schr. Minnie A. Bonsall, Mayport, Fla †	30.40	772.1	69	20.6	.....	ne.	.....	.....	1	.....	.....	.....	ne.	0	0	.....	.....	clear.
Bk. Matilda C. Smith, N. 48° 50′, W. 16° 55′†	29.61	752.1	.....	.....	.....	sw.	.....	.....	5	.....	5	.....	sw.	2 h'r	2 h'r	r'gh	.....	clearing.
Bgt. Myrtle, St. Thomas, W. I	30.00	762.0	.....	.....	.....	ene.	.....	.....	5	.....	2	.....	ene.	shr's	sh'rs	.....	.....	fair.
S. M. P. Grace, N. 7° 22′, W. 34° 50′ *†	29.90	761.0	78	25.6	.....	ne.	.....	.....	6	.....	0	.....	ne.	sli't	sli't	r'gh	ne.	squally.
Bkt. Norena, Matanzas, Cuba, W. I*†	30.28	769.1	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	fine.
Bk. Ottawa, off Cape Santa Island, Spain*	30.08	764.0	66	18.9	.....	ene.	.....	.....	2	.....	5?	.....	ene.	0	0	.....	.....	cloudy.?
Schr. Pearl Nelson, Maysi, Cuba, W. I*†	30.08	764.0	.....	.....	.....	ne.	.....	.....	7	.....	.....	.....	.....	.....	.....	.....	.....	
Bk. Reindeer, N. 14° 05′, W. 61° 12′*	30.04	763.0	.....	.....	.....	ene.	.....	.....	6	.....	.....	.....	nne.	.....	.....	.....	.....	snowing.
S. Rudolph, N. 39° 42′, W. 33° 37 *	29.47	748.5	50.0	13.3	.....	ssw.	.....	.....	7	.....	10	.....	var.	3 h'r	3 h'r	light	var.	rainy.
Bk. Saga, N. 44° 43′, W. 33° 10′	.....	.....	48	8.9	.....	sw.	.....	.....	4	.....	10	.....	var.	13 h'r	13 h'r	7	wnw.	cloudy.
Bk. Sunbeam, N. 38° 29′, W. 9° 42′	29.94	760.5	58	14.4	87	s.	.....	.....	6	.....	10	.....	ssw.	0	0	sm'h	.....	cloudy.
Bk. Usko, Near Bardsey Island, Wales*†	30.04	763.0	.....	.....	.....	sse.	.....	.....	5	.....	8	.....	sse.	0	0	mod.	s.	cloudy.
Schr. Wm. Wiler, Pointe a Pitre, Guadeloupe, W. I.†	30.11	764.8	.....	.....	.....	e.	.....	.....	1	.....	2	.....	e.	4 h'r	4 h'r	.....	.....	showery.
S. Wm. Woodbury, N. 58° 29′, W 0° 21′*	30.20	767.1	56	13.3	.....	s.	.....	.....	6	.....	0	.....	w.	.....	.....	sm'h	s.	squally.
District No. 2—South Atlantic																		
H. M. S. Starling, S. 6° 03′, W. 10° 02′	29.95	760.7	79.5	26.4	93	se.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.09	764.3	67	19.4	74	ne.	14	6.3	.....	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S Galena, Montevideo, Uruguay*..	30.09	764.3	64	17.8	89	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Grecian, S. 8° 45′, W. 33° 24′*	29.99	761.7	83	28.3	79	ese.	.....	.....	4	.....	4?	.....	ese.	0	0	light	se.	clear.?
S. S. Archimede, S. 0° 31′, W. 31° 29′	29.87	758.7	.....	.....	.....	e.	.....	.....	4	.....	3	.....	ene.	0	0	mod.	e,s	hazy.
S. S. Hevelius, Montevideo, Uruguay†	30.17	766.3	72	22.2	.....	ene.	.....	.....	0	.....	4?	.....	ne.	0	0	.....	.....	clear.
S. S. Ptolemy, S. 22° 17′, W. 40° 15′	29.94	760.5	74.4	23.6	92	sw.	.....	.....	3	0s	8 k	nw.	nw.	rain	rain	cf'd	.....	d. clouds.
S. S. Auckland, S. 15° 33′, W. 20° 00′	30.08	764.0	78	25.6	73	e.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	.....	blue sky.
S. S. City of Agra, S. 3° 36′, W. 34° 00′	29.99	761.7	81	27.2	90	e.	.....	.....	5	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. May Hulse, S. 44° 03′ W. 55° 10′	30.08	764.0	58	14.4	76	nw.	.....	.....	5	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. S Ambrose, Para Brazil†	30.02	762.5	79	26.1	.....	var.	.....	.....	1–2	.....	.....	.....	.....	3 h'r	3 h'r	.....	.....	fine.
Bg. Annie R. Storer, S. 15° 30′, W. 34° 40′*†	30.25	768.3	.....	.....	.....	ene.	.....	.....	4	.....	1	.....	ene.	0	0	sm'h	.....	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 2—South Atlantic.—Continued.																	
Bk. Edmund Phinney, S. 42° 37′, W. 54° 20′ †	30.17	766.3	58	14.4		wnw.			4		1			o	o	long	s.	clear.
Bk. E. L. Pettingill, S. 41° 16′, W. 41° 17′*†	30.10	764.5	52	11.1		sw.			1		o			o	o	sm'h	sw.	
S. E. B. Sutton, S. 2° 20′, W. 29° 40†	30.01	762.2	81.5	27.5	88	ese.			3–4		2			e.	o	o	sm'h	ene.	fair.
S. George Stetson, S. 45° —′, W. 52° —′ *†	30.10	764.5	66	18.9	78	nw.			5		2?			nw.	o	o	sm'h	w.	cloudy?
Bkt. Josephine, S. 35° 07′, E. 6° 31′ †	30.28	769.1	69	20.6	65	se.			3		10				o	o	sm'h		cloudy.
S. Titan, S. 15° 22′, W. 36° 34′*†	30.05	763.3	81	27.2	91	ene.			3		1			ene.	o	o	sm'h	ene.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay †	30.14	765.5	67	19.4		ne.			4		4			ne.	o	o			fair.
S. Sacramento. S. 41° 51′, W. 4° 21′ *†	30.14	765.5	63	17.2	78	nnw.			6		10				o	o	mod	nnw.	overcast.
District No. 3—North Pacific.																	
S. S. Arabic, N. 34° 39′, E. 146° 02′*†	29.98	761.5	54	12.2	87	nne.			4		2			ne.	o	o	h'vy	nw.	fair.
S. S. Belgic, Hong Kong, China *†	30.02	762.5	58	14.4	70	e.			5		10				o	o	sm'h		overcast.
S. S. Gaelic, Yokohama, Japan...	30.16	766.1	39	3.9	91	n.			2		2			ne.	o	o	sm'h		fair.
S. S. Oceanic, N. 34° 44′, W. 153° 45′*	30.42	772.7	62	16.7	94	se.			4		6			se.			light	se.	fair.
S. S. Oregon, N. 45° 23° W. 124° 15′			47	8.3	70	wnw.			3		5			sw.			mod.	sw.	squally.
S. S. Mississippi, Seattle, Wash. Ter †	30.50	774.7	21	— 6.1	85	ne.			1		0								clear.
S. S. Willamette, Seattlé, Wash. Ter †	30.53	775.4	20	—6.7	100	ese.			1		10			e.	o	o			dense haze.
S. S. Ancon, San Francisco. Cal †	30.04	763.0	35	1.7	54	ne.			3		0								clear.
S. S. City of Chester, Off Point Ryes, Cal *†	30.11	764.8	46	7.8	54	ne.			4		2				o	o	light	sw.	fair.
S. S. Dakota, Seattle, Wash. Ter *†	30.48	774.2	20	—6.7	100	n.			2		2			n.	o	o	sm'h	nw.	clear.
S. S. Orizaba, N. 37° 12′, W. 119°? 40′ *†	30.10	764.5	56	13.3	69	calm			0		0				o	o	sm'h	nw.	
S. S. State of California, N. 41° 40′, W. 124° 30′†	30.26	768.6	38	3.3	48	e.			3		0						sm'h	wnw.	clear.
S. S. City of Pekin, N. 32° 15′, E. 133° 00′ *	30.20	767.1	49	9.4	57	s.			3		5			sw.			small	s.	fair.
S. S. City of Tokio, N. 32° 21′, W. 171° 19′†	30.00	762.0	65	18.3	89	ese.			6		10			ese.	mod.	mod.	mod.	ese.	hazy.
S. S. City of Rio de Janeiro, Panama, Panama			78	25.6	82	n.			2		1			n	o	o	light	n.	fine.
S. S. Colima, N. 24° 24′ W. 112° 36′†	29.99	761.7	62	16.7	100	var.			2		3			nw.	o	o	mod	nw.	fair.
S. S. Granada, Acajutla, San Salvador†	29.86	758.4	75	23.9	72	calm			0		0				o	o	sm'h		clear.
H. M. S Curacoa, Yokohama, Japan	29.95	760.7	42.5	5.8	83	calm			0		0								blue sky.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.99	761.7	72	22.2		ne.			4		6								squally.
U. S. Naval Hospital, Yokohama, Japan*	30.20	767.1	35.5	1.9	80	calm			0		0								clear.
U. S. S. Independence, Mare Island, Cal	30.17	766.3	34	1.1	79	e.			1		0				light	light			clear.
U. S. S. Lackawanna, Honolulu Sandwich, Islands*	30.00	762.0	74	23.3	68	ne.			4		2				o	o			clear.
U. S. S. Monocacy, Amoy, China	30.17	766.3	54	12.2	67	ene.			3		5			n.					clear.
U. S. S. Palos, Tientsin, China*	30.37	771.4	26	—3.3	100	calm			0		0			ne.			sm'h		fair.
U. S. S. Ranger, San Diego, Cal	30.08	764.0	47	8.3	55	nne.			1		2								clear.
U. S. S. Richmond, Hong-Kong, China *	30.04	763.0	57	13.9	87	e.			3		10			calm	o	o	sm'h		clear.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.96	761.0	74	23.3	81	e.			2		5			e.	o	o			cloudy.
Bk. Childwall, N. 4° 00′. W. 128° 40′*	29.77	756.1	76	24.4		se.			4		7			ne.			sm'h		fair.
S. St. Francis. N. 36° 40′, W. 124° 16′†	30.23	767.8	44	6.7		nne.			5		3			var.	5 h'r	5 h'r			fine.
British Merchant, N. 0° 05′, W. 126° 15′	29.77	756.1	74.8	23.8	93	ese			4		3			n.	o	o	sm'h	nne.	fair.
Tamega, Macao, China	30.13	765.3	62.6	17.0	65	nne.			3		10				o	o			d. clouds.
District No. 4—South Pacific.																			overcast.
H. M. S. Comus, Callao, Peru	29.94	760.5	65.5	18.6	97	calm			0		10								foggy.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	29.90	759.4	71.3	21.8	90	w.			1		10						sm'h		raining.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.83	757.7	60	15.6		ene.			2								1	nne.	d. clouds.
H. M. S. Rocket, S. 41° 30′, W. 72° 50′	30.04	763.0	57	13.9	100	wsw.			2		4	ssw.							d. clouds.
H. M. S. Swiftsure, S. 1° 15′, W. 90° 30′	29.89	759.2	75	23.9	100	calm			0		4	s.							d. clouds.
H. M. S. Sylvia, Port Tamar, Patagonia	29.73	755.1	51	10.6	86	nnw.			2–4		10								drizzling.
U. S. S. Essex, Callao, Peru	29.85	758.2	68	20.0	90	calm			0		10			ssw.				sw.	misty.
U. S. S. Iroquois, S. 21° 28′, W. 90° 08′	30.04	763.0	69	20.6	80	ase.			5		8			ese.			mod.	e.	cloudy.
U. S. S. Onward, Callao, Peru*†	29.98	761.5	65	18.3	95	calm			0		10								misty.
U. S. S. Pensacola. Callao, Peru*	29.80	756.9	66	18.9	94	s.			2		10				o	o	sm'h		foggy.
Bk, Gronsvaer, Auckland, New Zeland†	29.88	758.9	76.2	24.6		nw.			3		5			nw.	3 h'r	3 h'r			fair.
S. S. Australia, S. 35° 30′, E. 174° 45′ *	29.03	752.6	70	21.1	100	nw.			2		10				1 h'r	1 h'r	sm'h		misty.
S. S City of Sydney, Sydney, N. S. W†	30.07	763.8	68	20.0	74	se.			5		8			sw.	½h'r	½h'r			drizzling.
S. S. Zealandia, S. 12° 38′, W. 169° 17′	29.88	758.9	78	25.6	86	e			4					e.					fine.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.87	758.7	57	13.9	87	ne.			1		10								misty.
Bk. Warden Law, S. 20° 20′, W. 73° 00′ *	30.11	764.8				s.			2		9			sse.	o	o	sm'h	sse.	covered.
S. Sovereign of the Seas, S. 38° 59′, W. 119° 53′ *†	30.30	769.6	60	15.6	94	sw.			3		10				2 h'r	2 h'r	h'vy	sw.	overcast.
District No. 5—Indian Ocean.																			
H. M. S. Dryad, N. 3° 30′ E. 62° 30′	29.81	757.2	82	27.8		nw.			2		4	nw.					2	n.	d clouds.
H. M. S. Eclipse, N. 21° 24′ E. 65° 39′	29.89	759.2	72	22.2		n.			5		0						4	nne.	blue sky.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.83	757.7	79	26.1	86	ene.			3		4	ene.							d. clouds.
H. M. S. Himalaya, N. 6° 32′, E. 78° 53′	29.83	757.7	81	27.2	87	ene.			4–5		8								d. clouds.
H. M. S. Woodlark, Bushire, Persia	29.97	761.2	64.5	18.1	83	ne.			2–3		5	s.					3	ne.	showery.
S. S. Scotia, N. 5° 50′, E. 86° 10′	29.82	757.4	79.3	26.3	79	ne.			3–4		9								d. clouds.
Bk. Essex, S. 27° 35′, E. 35° 31′ *†	29.83	757.7	85	29.4		wnw.			1		10			wsw.	o	o	light	ese.	fine.

International Chart I. February 5, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B. Hazen, Chief Signal Officer.
Signal Office 14th.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 6, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.06	763.5	61.2	16.2	81	s.	.....	.....	1	.....	1	.....	.....	0	0	very fair.....	Malaterre.
Algiers	.....	.....	30.08	763.9	56.8	13.8	61	nw.	.....	.....	2	.....	4	.....	.....	inap.	inap.	cloudy.....	Thève.
La Calle	.....	.....	30.00	762.1	57.6	14.2	78	wnw.	.....	.....	2	.....	4	.....	.....	0	0	cloudy.....	Fonfrède.
Tunis	.....	.....	30.04	763.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.08	764.0	59.4	15.2	54	w.	.....	.....	2	.....	0	.....	.....	0	0	clear.....	Pérès.
Tebessa	.....	.....	30.11	764.7	54.0	12.2	65	nnw.	.....	.....	3	.....	1	.....	.....	inap.	inap.	very fair.....	Dognon.
Geriville	.....	.....	.....	.....	56.8	13.8	15	nw	.....	.....	2	.....	1	.....	.....	0	0	very fair.....	Forfert.
Laghouat	.....	.....	30.11	764.8	56.1	13.4	54	w.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Abraham.
Biskra	.....	.....	30.07	763.7	67.3	19.6	31	nw.	.....	.....	6	.....	3	.....	.....	0	0	pretty fair...	Malan.
Australian.																			
Melbourne, Victoria	29.82	757.4	29.91	759.7	74.1	23.4	57	e.	4	1.8	.....	.....	9	.....	.....	0	0	fine.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.61	752.0	30.19	766.8	32.0	0.0	96	s.	.....	.....	2	.....	10	.....	.....	inap.	inap.	.....	Prof. Ivan Stczir.
Cracow, I. R Observatory	29.43	747.5	30.24	768.0	32.4	0.2	78	nw.	0.3	2.8	.....	.....	10	.....	.....	0.024	0.6	.....	Dr. Wierzbiski.
Eperies	29.24	742.7	30.16	766.0	30.7	2.6	79	calm	.....	.....	0	.....	10 s	.....	.....	0.185	4.7	foggy.....	Julius Mikolik.
Gratz	28.88	733.5	30.16	766.1	44.1	6.7	58	wnw.	.....	.....	1	.....	8	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.64	727.5	30.13	765.2	37.4	3.0	83	nw.	.....	.....	4	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.81	731.7	30.21	767.4	34.2	1.2	89	nw.	.....	.....	1	.....	10	.....	.....	0.028	0.7	gloomy.....	The Staff.
Lemberg	29.12	739.6	30.16	766.0	31.8	— 0.1	78	sw.	.....	.....	1	.....	10	.....	.....	0.008	0.2	.....	Dr. T. Stanecki.
Neu Schmecks	26.63	676.3	30.18	766.6	26.4	— 3.1	.....	w.	.....	.....	1	.....	10	.....	.....	0.185	4.7	.....	Dr. V. von Szontagh.
Pola	30.00	761.9	30.11	764.9	47.3	8.5	45	e.	.....	.....	2	.....	1	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.04	752.9	30.10	764.6	34.5	1.4	85	n.	.....	.....	1	.....	10	.....	.....	0.012	0.3	.....	Joseph Midlinszky, S. J.
Szegedin	29.83	757.6	30.12	765.0	39.2	4.0	93	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.99	761.8	30.09	764.3	49.3	9.6	42	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	Royal Academy.
Vienna	29.49	749.1	30.24	768.2	30.3	2.4	79	n.	.....	.....	1	.....	9	.....	.....	0.071	1.8	snowing.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.95	760.7	30.05	763.3	42.7	5.9	76	sse.	30	13.4	.....	.....	9	.....	.....	0.010	0.3	squally.....	W. Boswell
Armagh, Observatory	29.50	749.3	29.73	755.1	45.4	7.4	84	sse.	32	14.3	.....	.....	10	.....	.....	.....	.....	squally.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.96	761.0	41.2	5.1	81	ese.	30	13.4	.....	.....	1	.....	.....	.....	.....	blue sky.....	John Hartnup.
Bolton, Sharples	29.47	748.5	30.01	762.2	40.3	4.6	83	sse.	6	2.7	.....	.....	9	.....	.....	.....	.....	misty.....	Thomas Mackereth.
Bradford, Yorkshire	29.66	753.4	30.06	763.5	39.8	4.3	86	se.	.....	.....	4	.....	10	.....	.....	0.07	1.8	overcast.....	McLandsborough&Prestol.
Bridgetown, Barbadoes	30.00	762.0	30.03	762.7	75.0	23.9	90	ne.	.....	.....	4	.....	9	.....	.....	.....	.....	raining.....	Corpl. J. Surgenor, A. H. C
Cardington	.....	.....	.....	.....	42.6	5.9	79	se.	.....	.....	0.6	.....	0	.....	.....	.....	.....	blue sky.....	John McLaren.
Chatham, School M. E.	29.97	761.2	30.10	764.5	44.1	6.7	73	sse.	.....	.....	1	.....	2	.....	.....	.....	.....	misty.....	Corpl. G. A. Pickles.
Falmouth, Observatory	29.05	753.1	29.88	758.9	49.6	9.8	74	sse.	.....	.....	5	.....	9	.....	.....	.....	.....	d. clouds.....	The Staff.
Fort Napier, Natal	27.66	702.6	29.89	759.2	70.8	21.6	53	se.	.....	.....	1	.....	6	.....	.....	.....	.....	.....	Corpl. F. Milner, A. H. C.
Freetown	29.62	752.3	29.85	758.2	87.0	30.6	75	e.	.....	.....	1	.....	4	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	29.39	746.5	29.43	747.5	49	9.4	93	e.	.....	.....	7	.....	10	.....	.....	0.11	2.8	drizzling.....	Wm. Ryan.
Gibraltar, Mediterranean	30.00	763.5	30.11	764.8	57.0	13.9	94	.....	.....	.....	.....	.....	9	.....	.....	.....	.....	gloomy.....	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.72	754.9	29.93	760.2	42.9	6.1	65	se.	.....	.....	3	.....	9	.....	.....	.....	.....	misty.....	Harry Urquhart, Asst
Greenwich, Royal Obs'y	29.92	760.0	30.09	764.3	42.8	6.0	77	se.	.....	.....	1	.....	4	.....	.....	.....	.....	blue sky.....	The Staff.
Guernsey	29.68	753.9	29.98	761.5	47	8.3	88	sse	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky.....	A. Collenette, F. M. S
Kew, Observatory	30.05	763.3	30.09	764.3	43.0	6.1	75	e.	18	8.0	.....	.....	4	.....	.....	.....	.....	d. clouds.....	The Staff.
Leicester, Museum	29.80	756.9	30.06	763.5	44.0	6.7	71	se.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky.....	J. C. Smith.
Malta, Mediterranean	29.80	756.9	29.88	758.9	64.2	17.9	91	se.	.....	.....	2	.....	1	.....	.....	0	0	blue sky.....	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.19	766.8	30.24	768.1	74.0	23.3	81	e.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe.
Oscott, St. Mary's College	29.50	749.3	30.05	763.3	37.0	2.8	90	e.	.....	.....	4	.....	10	.....	.....	.....	.....	threatening.	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.83	757.7	30.06	763.5	40.0	4.4	83	se.	.....	.....	3	.....	7	.....	.....	.....	.....	d. clouds.....	The Staff.
Plymouth	29.86	758.4	29.93	760.2	49.1	9.5	85	se.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast.....	John Merrifield.
Sandwick Manse, Orkneys	29.75	755.6	29.85	758.2	41.9	5.5	83	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	d. clouds.....	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.02	762.5	30.09	764.3	40.0	4.4	91	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	drizzling.....	W. H. Lyne.
Sheffield	29.78	756 4	30.07	763.8	40.5	4.7	87	sse.	.....	.....	1	.....	9	.....	.....	0.09	2.3	overcast.....	W. F. Cooper.
Silloth Rectory	29.91	759 7	29.94	760.5	44.5	6.9	69	se.	.....	.....	5	.....	5	.....	.....	0.080	2.0	d. clouds.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.03	762.7	41.3	5.2	77	se.	21	9.4	.....	.....	0	.....	.....	.....	.....	d. clouds.....	Rev. S. J. Perry.
Stratfield Turgiss	29.83	757 7	30.06	763.5	40.2	4.6	87	se.	.....	.....	2	.....	10	.....	.....	.....	.....	d. clouds.....	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	29.80	756.9	29.84	757.9	52	11.1	66	e.	.....	.....	6	.....	6	.....	.....	.....	.....	d. clouds.....	W. Newcombe.
Valencia, Observatory	29.35	745.5	29.38	746.2	50.4	10.2	91	se.	43	19.2	.....	.....	10	.....	.....	.....	.....	raining.....	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.51	749 5	29.90	759 4	61.7	16.5	76	s.	7.4	3.3	.....	0	0	.....	.....	0	0	clear.....	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	— 2	—18.9	.....	calm	0	0	.....	0	0	.....	.....	0	0	blue sky.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.19	766.8	30.23	767.8	1	—17.2	97	nw.	6	2.7	.....	0	0	.....	.....	0.035	0.9	clear.....	H. J. Cundall, C. E.
Chatham, N. B*	30.21	767 3	30.29	769.4	—20	—28.9	100	calm	0	0	.....	0	0	.....	.....	0.03	0.8	clear.....	G. A. Blair
Cornwall	30.02	762.5	30.23	767.8	5.8	—14.0	95	w.	.....	.....	2	.....	10 s	.....	.....	0	0	d. clouds.....	Jas. Smith, M. A.
Dalhousie	30.15	765 8	30.21	767.3	—19.0	—28.3	.....	calm	.....	.....	0	0	0	.....	.....	0	0	blue sky.....	H. A. Johnson.
Father Point, Quebec*	30.15	765.8	30.17	766.3	1	—17.2	87	sw.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy.....	J. McWilliams.
Fort Garry, Manitoba*	28.86	733.0	29.78	756.4	0	—17.8	100	w.	17	7.6	.....	0	0	.....	.....	0	0	clear.....	James Stewart.
Fredericton	30.27	768.8	30.34	770.6	— 8.9	—22.7	100	calm	0	0	.....	0	0	.....	.....	0	0	blue sky.....	Prof. Harrison, L. L. D.
Granton	29.18	741.2	30.45	773.4	— 7.9	—22.2	92	sw.	2	0.9	.....	0	0	.....	.....	0	0	blue sky.....	Jas. Grant.
Halifax, N. S*	30.16	766.1	30.30	769.6	0	—14.4	100	w.	4	1.8	.....	0	0	.....	.....	0.40	10.2	clear.....	A. Allison.
Hamilton	29.83	757.7	30.26	768.6	4.5	—15.3	90	sw.	.....	.....	3	4 ck	0	sw.	.....	c	0	d. clouds.....	Geo. Dickson, B. A.
Kingston, Ontario*	29.92	760.0	30.29	769.4	12	—11.1	83	sw.	0	2.7	.....	.....	10 ks	.....	sw.	c	0	cloudy.....	A. P. Knight, M. A.
Montreal, Quebec*	30.04	763.0	30.27	768.8	3	—16.1	83	sw.	14	6.3	.....	.....	10 ks	.....	w.	0.02	0.5	cloudy.....	C. H. McLeod, C. E.
Ottawa	29.97	761.2	30.25	768.3	— 2.9	—19.4	98	s.	.....	.....	1	0	0	.....	.....	0	0	blue sky.....	A. McGill, M. A.
Parry Sound, Ontario*	29.42	747.3	30.18	766.6	11	—11.7	80	s.	21	9.4	.....	.....	10 n	.....	s.	0.05	1.3	light snow...	Rev. R. Mosley.
Peterboro	29.49	749.0	30.34	770.6	— 3.9	—19.9	100	sw.	.....	.....	1	0	0	.....	.....	0	0	blue sky.....	J. Dixon, B. A.
Port Dover, Ontario	29.02	752 3	30.39	771.9	6	—14.4	100	sw.	5	2.2	...	0	0	.....	.....	0	0	clear.....	H. Morgan.
Port Stanley, Ontario	29.09	754.1	30.41	772.4	3	—16.1	79	w.	8	3.6	.....	0	2 ks	.....	w.	0	0	clear.....	M. Payne.
Quebec, Quebec*	29.92	760.0	30.29	769.4	— 6	—21.1	62	w	.....	.....	1	2 c	0	.....	nw	0.05	1.3	fair.....	Capt. Ashe, R. N
Rockliffe, Ontario*	29.58	751.3	30.10	764.5	— 1	—18.3	95	calm	0	0	.....	0	5 cs	.....	w.	0	0	fair.....	W. H. McIntyre.
Saugeen, Ontario*	29.46	748.3	30.26	768.6	6	—14.4	91	sw.	20	8.9	.....	.....	8 ks	.....	.....	0	0	cloudy.....	
St. Andrews, N. B	30.20	768.6	30.32	770.1	5	—15.0	87	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	
St. John, N. B	30.14	765.5	30.32	770.1	5	—15.0	87	nw.	10	4.5	.....	0	0	.....	.....	0	0	blue sky.....	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.88	758.9	10.4	—12.0	.....	nw.	.....	.....	7	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	28.94	735 1	30.41	772.4	— 6.0	—21.1	96	sw.	4	1.8	.....	0	0	.....	.....	0	0	blue sky.....	C. J. Macgregor, M. A.
Sydney, C. B*	30.09	764.3	30.10	766.1	— 8	—22.2	100	w.	1	0.4	.....	0	2 k	.....	.....	0	0	clear.....	T. C. Hill, C. E.
Toronto, Ontario*	29.93	760.2	30.30	771 1	2	—16.7	91	w.	5	2.2	.....	0	2 s	.....	.....	0	0	clear.....	Magnetic Observatory.
Windsor	30.17	766.3	30.27	768.8	9.0	—12.8	.....	sw.	4	1.8	.....	0	3 ks	.....	.....	0	0	fine.....	Prof. W. H. Butler, M.A
Woodstock	29.23	742.4	30.44	773.2	— 1.8	—18.8	84	s.	5.0	2.2	.....	2 c	0	w.	.....	0	0	blue sky.....	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.26	768.6	30.33	770.4	15	— 9.4	70	nw.	12	5.4	.....	0	2 k	.....	nw.	0.01	0.3	clear.....	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	29.98	761.5	30.01	762.2	71.0	21.7	78	e.	6.0	2.7	.....	3 k	o	.....	.....	o	o	clear	**John Duthie.**
Springbok Fontein	27.86	707.6	.....	.....	92	33.3	34	e.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**J. T. Eustace.**
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.76	628.8	.....	.....	19.4	— 7	.....	s.	.....	.....	1	.....	o	.....	.....	.....	.....	foggy	
Tchang-kia-tchouang	30.46	773.7	30.57	776.5	24.8	— 4.0	95	ne.	.....	.....	1	.....	10	.....	.....	o	o	covered	R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	30.40	772.1	30.43	772.8	36.9	2.7	93	n.	4.5	2.0	.....	.....	10 n	.....	.....	0.071	1.8	raining	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.52	775.3	30.57	776.5	27.1	— 2.7	70	e.	18	8	.....	.....	10	.....	.....	.....	.....	.....	**Oversergent Fischer.**
Fanoe	30.49	774.5	30.51	775.0	31.5	— 0.3	90	e.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	29.30	744.2	29.34	745.3	— 9.0	—22.8	100	nnw	.....	.....	4	.....	2	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	29.20	741.7	29.22	742.2	— 7.2	—21.8	.....	calm	.....	.....	0	.....	1	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.33	744.9	29.37	746.1	—17.7	—27.6	.....	calm	.....	.....	0	.....	3	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.10	739.0	29.14	740.1	30.9	— 0.6	90	se.	.....	.....	2	.....	10	.....	.....	.....	.....	snowing	A. O. Thorlacius.
Thorshavn	29.71	754.6	29.74	755.5	44.2	6.8	78	s.	22	10	.....	.....	10	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	30.47	774.0	30.56	776.3	28.2	— 2.1	87	e.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	29.26	743.2	29.31	744.4	—14.3	—25.7	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	snowing	
French.																			
Agen, Normal School	29.42	747.3	30.08	764.1	46.0	7.8	91	calm	.....	.....	0	ck	o	.....	.....	o	o	.....	M. Labroue, Director.
Alençon, Normal School	29.51	749.5	30.06	763.5	38.5	3.6	97	se.	.....	.....	1	.....	fg	nw.	nw.	o	o	foggy	M. Nicot, Director.
Arras, Engineer School	29.84	757.8	30.10	764.6	41.0	5.0	84	se.	.....	.....	4	.....	.....	.....	.....	o	o	clouds	**M. Fénéon, Command't.**
Avignon, Normal School	30.00	762.1	30.08	764.1	49.3	9.6	76	n.	.....	.....	1	.....	5	.....	n.	o	o	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.52	749.9	30.10	764.4	44.4	6.9	74	sse.	.....	.....	1	o	o	.....	.....	o	o	clear	M. Saillard, Director.
Beauvais, Normal School	29.84	757.8	30.11	764.9	37.9	3.3	80	e.	.....	.....	1	.....	o	.....	.....	o	o	clear	M. Frère Eugène Marié
Besançon, Normal School	29.19	741.4	30.11	764.8	48.9	9.4	44	s.	.....	.....	1	.....	o	.....	.....	o	o	clear	M. Gobin, Director.
Bordeaux, Observatory	29.73	755.2	30.00	761.9	51.6	10.9	72	se.	.....	.....	1	.....	o	.....	.....	o	o	clear	M. Rayet, Director.
Bourges, Normal School	29.49	749.0	30.06	763.4	45.5	7.5	72	ne.	.....	.....	1	o	o	.....	.....	o	o	clear	M. Malet, Director.
Brest, Naval Observatory	29.71	754.6	29.95	760.7	55.0	12.8	68	sse.	.....	.....	2	.....	o	.....	.....	o	o	.....	**M. de Kermaréc, Dir.**
Caen, Normal School	29.98	761.6	30.04	763.0	38.8	3.8	94	n.	.....	.....	1	.....	o	.....	.....	o	o	clear	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.76	755.8	30.08	764.1	43.9	6.6	65	se.	.....	.....	2	.....	o	.....	.....	o	o	clear	M. Jadot, Director.
Charleville, Normal School	29.80	756.8	30.32	770.0	41.4	5.2	77	s.	.....	.....	1	.....	10	.....	.....	o	o	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.69	728.8	30.08	763.9	46.9	8.3	69	ne.	.....	.....	1	2 c	o	.....	.....	o	o	hazy	M. Allnard, Director.
Cluny, Normal School	29.28	743.7	30.12	765.0	34.7	1.5	96	n.	.....	.....	1	.....	fg	.....	.....	o	o	foggy	**M. de Villemontée, Dir.**
Commercy, Normal School	29.28	743.7	30.17	766.4	38.5	3.6	58	e.	.....	.....	1	.....	o	.....	.....	o	o	clear	Dr. Coulet, Director.
Gap, Normal School	27.52	699.1	30.12	765.1	42.1	5.6	88	calm	.....	.....	0	.....	1	.....	.....	o	o	.....	M. Jeangirard, Director.
Grésaque, du Rhone	28.91	734.4	30.05	763.2	54.1	12.3	61	ne.	.....	.....	1	.....	7	.....	ne.	o	o	.....	M. Kina, Director.
Grenoble, Normal School	29.37	746.0	30.17	766.3	39.9	4.4	63	ese.	.....	.....	1	.....	8	.....	.....	o	o	.....	M. Allard, Director.
Guéret	28.49	723.6	30.09	764.2	50.0	10	72	ne.	.....	.....	1	o	o	.....	.....	o	o	clear	**M. Delorme, Dir.**
Lamballe, Normal School	29.78	750.5	30.06	763.5	47.5	8.6	78	**se.**	.....	.....	3	.....	1	.....	se	o	o	clear	M. Ollitrault, Director.
Lescar, Normal School	29.43	747.4	29.99	761.8	58.1	14.5	51	e.	.....	.....	1	o	o	.....	.....	o	o	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.88	758.9	29.98	761.5	48.9	9.4	76	e.	.....	.....	1	.....	2	.....	e.	0.110	2.8	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.04	737.7	30.15	765.9	31.8	— 0.1	100	ene	.....	.....	1	.....	fg	.....	.....	o	o	dense fog	M. André, Director.
Mans, Normal School	29.75	755.6	30.07	763.7	41.5	5.3	82	sse.	.....	.....	1	.....	o	.....	.....	o	o	clear	M. Piboën, Director.
Marseille, Observatory	29.76	755.9	30.03	762.8	57.2	14.0	67	wsw.	.....	.....	1	.....	6	.....	e.	o	o	.....	M. Stephan, Director.
Montlouis	24.75	628.7	29.60	751.7	42.8	6.0	44	se.	7.4	3.3	.....	.....	o	.....	.....	c	o	.....	**M. Caré for Dr. Fines.**
Montpellier, Normal School	29.94	760.4	30.07	763.7	52.7	11.5	77	n.	.....	.....	2	.....	5	.....	s.	o	o	cloudy	M. Galzin, Director.
Nancy, Normal School	29.33	744.9	30.13	765.4	42.1	5.6	56	ne.	.....	.....	1	.....	.....	.....	.....	o	o	.....	M. Hasse, Director.
Nantes, Observatory	29.88?	759.0?	29.90?	759.4?	52.7	11.5	56	ese.	.....	.....	0–1	.....	o	.....	.....	o	o	.....	M. Larocque, Director.
Perpignan, Observatory	29.95	760.8	30.06	763.6	54.9	12.7	78	e.	5.6	2.5	.....	.....	8	.....	ne.	o	o	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.15	537.1	.....	.....	28.2	— 2.1	.....	sw.	.....	.....	1	.....	1	.....	s.	o	o	clear	**M. Vaussenat, Director.**
Privas, Normal School	29.01	736.9	30.10	764.6	46.0	7.8	80	ne.	.....	.....	4	.....	2	ne.	ne.	o	o	slightly cl'dy	M. Taillen.
Puy de Dôme Obs'y, Summit	25.12	638.0	.....	.....	34.0	1.1	71	nw.	.....	.....	1	2 c	o	.....	.....	o	o	slightly cl'dy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.98	761.4	30.01	762.2	51.8	11.0	86	se.	.....	.....	1	.....	o	.....	.....	o	o	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.79	756.6	30.01	762.2	47.5	8.6	81	se.	.....	.....	1	.....	o	.....	.....	o	o	clear	**M. Brotier, Director.**
Rodez, Normal School	27.91	708.8	30.09	764.3	47.3	8.5	86	se.	.....	.....	2	.....	o	.....	.....	o	o	clear	M. Seger, Director.
Rouen, Normal School	30.01	762.3	30.06	763.5	42.4	5.8	75	ese.	.....	.....	1	.....	2	ese.	.....	o	o	slightly cl'dy	**M. Mouillot.**
Saint Lô	.....	.....	.....	.....	47.8	8.8	78	se.	.....	.....	1	.....	o	.....	.....	o	o	clear	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.93	760.3	30.10	764.5	43.0	6.1	73	e.	.....	.....	1	.....	o	.....	.....	o	o	clear	M. Renou, Director.
Toulouse, Observatory	29.32	744.7	30.04	763.1	56.7	13.7	72	se.	.....	.....	2	.....	1	w.	.....	o	o	clear	M. Baillaud, Director.
Tours	29.89	759.1	30.06	763.6	45.0	7.2	83	ese.	.....	.....	1	.....	o	.....	.....	o	o	clear	M. de Tastes.
Versailles, Observatory	29.60	751.7	30.09	764.2	42.1	5.6	66	se.	.....	.....	2	.....	o	.....	.....	o	o	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.84	757.9	29.99	761.7	57.6	14.2	69	e.	5.8	2.6	.....	o	o	.....	.....	o	o	clear	**M. Cartier, Director.**
German.																			
Ansbach	28.76	730.6	30.28	769.1	37.4	3.0	80	ne.	.....	.....	4	.....	6	ne.	.....	o	o	.....	**Prof. Jnedt.**
Bamberg	29.41	746.9	30.26	768.5	37.6	3.1	63	n.	.....	.....	2	.....	3	.....	.....	.....	.....	snowflakes	**Prof. Dr. Hoh.**
Berlin	30.27	768.8	30.42	772.7	33.6	0.9	58	ne.	.....	.....	3	.....	10	.....	.....	o	o	.....	**Meteorological Institute.**
Breslau	29.78	756.4	30.32	770.0	31.1	— 0.5	90	nne.	.....	.....	4	.....	10	.....	.....	0.157	4.0	.....	Royal University Obs'y
Carlsruhe	29.76	755.8	30.23	767.9	42.4	5.8	70	ne.	.....	.....	2	.....	o	.....	.....	o	o	.....	Albert Senz.
Cassel	29.57	751.1	30.28	769.2	35.2	1.8	78	ne.	.....	.....	4	.....	8	ne.	.....	o	o	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.87	758.7	30.25	768.4	41.7	5.4	65	nw.	.....	.....	1	.....	2	.....	.....	o	o	.....	**Physical Society.**
Friedrichshafen	28.72	729.4	30.22	767.5	35.2	1.8	67	se.	.....	.....	2	.....	5	ne.	.....	o	o	.....	Wilhelm, Chief Tel.
Hamburg	30.38	771.7	30.47	774.0	33.4	0.8	82	ene.	.....	.....	4	.....	10	.....	.....	o	o	dense haze	E. Preller.
Kiel	30.48	774.1	30.49	774.5	33.3	0.7	71	e.	.....	.....	2	.....	9	.....	.....	o	o	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.95	760.6	30.39	771.9	32.7	0.4	96	ne.	.....	.....	2	.....	9	ene.	.....	.....	.....	snowing	H. Leppig, Asst.
Magdeburg	30.21	767.3	30.41	772.5	34.2	1.2	80	ne.	.....	.....	2	.....	7	ne.	.....	0.039	1.0	.....	**Dr. Assmann.**
Memel	30.40	772.2	30.45	773.4	27.0	— 2.8	89	ne.	.....	.....	4	.....	10 s	.....	.....	.....	.....	.....	Issermann.
Munich	28.33	719.5	30.19	766.7	31.6	— 0.2	95	ne.	...	.....	1	.....	10	.....	.....	o	o	.....	**Central Station.**
Neufahrwasser	30.42	772.7	30.44	773.1	30.7	— 0.7	90	ne.	.....	.....	3	.....	10	.....	.....	0.020	0.5	.....	A. Lothes.
Neustadt, Palatinate	29.66	753.4	30.19	766.8	40.6	4.8	76	ne.	.....	.....	1	.....	o	.....	.....	o	c	.....	Dickneether.
Stuttgart	29.21	742 0	30.14	765.5	40.6	4.8	67	ne.	.....	.....	1	.....	5	e.	.....	o	o	.....	Prof. Dr. Schoder.
Wustrow	30.51	775.0	30.54	775.7	31.3	— 0.4	85	ne.	.....	.....	4	.....	10 8	.....	.....	o	o	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.69	754.2	30.08	764 0	59.5	15.3	.....	sw.	.....	.....	0.5	o	1 k	.....	.....	o	o	.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.96	760.9	30.01	762.2	72.3	22.4	35	wsw.	19.0	8.5	.....	.....	o	.....	.....	o	o	blue sky	
Deesa	29.44	747.8	29.92	759.8	80.6	27.0	19	wnw.	6.0	2.7	.....	.....	o	.....	.....	o	o	blue sky	
Bombay	29.84	757.9	29.88	758.9	79.6	26.4	72	nw.	12.0	5.4	.....	.....	8	wnw.	.....	o	o	d. clouds	
Poona, Yarrowda	28.02	711.6	29.86	758.3	83.6	28.7	23	w.	4.0	1.8	.....	.....	9	w.	.....	o	o	d. clouds	
Belgaum	27.33	694.2	29.84	757.9	82.4	28.0	24	se.	7.0	3.1	.....	.....	4	s.	.....	o	o	d. clouds	
Lahore	29.21	741.9	29.98	761.6	61.6	16.4	41	w.	4.0	1.8	.....	.....	o	.....	.....	o	o	blue sky	
Roorkee	29.02	737.0	29.95	760.8	60.8	16.0	45	w.	4.0	1.8	.....	.....	o	.....	.....	o	o	.....	
Agra	29.40	746.8	29.99	761.7	66.8	19.3	23	w.	4.0	1.8	.....	.....	o	.....	.....	o	o	blue sky	
Nagpur	28.87	733.3	29.91	759.8	81.5	27.5	25	nw.	3.0	1.3	.....	.....	7	w.	.....	o	o	d. clouds	
Jubbulpore	28.60	726 5	29.98	761.6	71.9	22.2	21	n.	4.0	1.8	.....	.....	o	.....	.....	o	o	blue sky	
Lucknow	29.58	751.4	29.98	761.4	57.3	14.1	61	nw.	4.0	1.8	.....	.....	o	.....	.....	o	o	blue sky	
Allahabad	29.04	753.0	29.97	761.3	61.3	16.3	52	calm	o	o	.....	.....	o	.....	.....	o	o	blue sky	
Patna	29.79	756.6	29.98	761.4	63.6	17.6	40	wnw.	5.0	2.2	.....	.....	o	.....	.....	o	o	blue sky	
Hazaribagh	27.90	708.6	29.99	761.7	58.9	14.9	29	nw.	8.4	3.8	.....	.....	o	.....	.....	o	o	squally	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.86	758.4	29.94	760.5	74.0	23.3	50	ne.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.95	760.6	29.97	761.2	67.3	19.6	33	nnw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.82	757.5	29.95	760.7	66.4	19.1	59	ene.	2.0	1.2	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.88	758.9	29.97	761.3	66.1	18.9	55	w.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.66	753.4	30.02	762.4	58.3	14.6	88	e.	2.0	0.9	.....	.....	10	sw.	sw.	0	0	d. clouds	
Joypore	28.50	723.9	29.99	761.6	67.2	19.6	29	nw.	7.0	3.1	.....	.....	0	.....	.....	0	0	blue sky	
Bellary	28.40	721.3	.....	.....	84.0	28.9	29	se.	8	3.6	.....	3 c	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.66	753.4	.....	.....	82.6	28.1	51	e.	2	0.9	.....	.....	0	.....	.....	0	0	blue sky	
ITALIAN.																			
Udine	29.69	754.2	30.11	764.9	47.8	8.8	44	se.	3.1	1.4	.....	.....	1	.....	.....	0	0	.....	**Prof. Giovanni Clodig.**
Milan	29.58	751.2	30.11	764.8	43.5	6.4	88	ssw.	1.3	0.6	.....	.....	10	e.	.....	0	0	.....	**Prof. Schiapparelli.**
Padua	30.00	762 0	30.11	764.9	44.2	6.8	72	n.	0.7	0.3	.....	.....	6	nw.	.....	0	0	...	**Prof. Dott. Lorenzoni.**
Moncalieri	29.16	740.6	30.10	764.6	42.3	5.7	89	e.	0	0	.....	.....	9	.....	.....	0	0	.....	**Prof. F. F. Denza.**
Genoa	29.85	758.1	30.04	763.1	51.3	10.7	49	ne.	5.6	2.5	.....	.....	8	s.	.....	0	0	.....	**Prof. G. M. Garibaldi.**
Mondovi	28.13	714.6	30.12	765.1	42.4	5.8	55	nw.	.....	.....	2	.....	5	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.10	764.4	30.15	765.7	42.1	5.6	91	n.	4.3	1.9	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.78	756.4	30.04	763.0	49.6	9.8	52	e.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. Costantino **Pittei.**
Leghorn	29.89	759.2	29.98	761.4	51.3	10.7	56	ene.	11.9	5.3	.....	.....	10	sw.	.....	0	0	.....	Prof. P. Monte.
Rome	29.81	757.1	29.98	761.6	54.3	12.4	62	n	3.1	1.4	.....	.....	8	.....	.....	0	0	.....	Prof. P. Tachini.
Lecce	29.79	756.7	30.05	763.3	53.8	12.1	61	ne.	4.3	1.9	.....	.....	7	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.11	739.4	30.02	762.4	52.2	11.2	75	sse.	2.5	1.1	.....	.....	9	se.	.....	0.012	0.3	.....	Prof. D. Conti.
Cagliari	29.73	755.1	29.93	760.1	57.2	14.0	68	calm	.....	.....	0	.....	10	s.	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.67	753.6	29.92	760.0	61.5	16.4	56	ne.	6.3	2.8	.....	.....	1	ne.	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	29.91	759.8	29.96	760.9	59.7	15.4	80	ne.	13.0	5.8	.....	.....	10	se.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.47	748.6	30.00	762.1	56.7	13.7	56	n.	3.8	1.7	.....	.....	5	se.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.04	559.9	.....	.....	19.9	— 6.7	60	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
Valdobbia	22.11	561.5	.....	.....	32.7	0.4	22	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.39	771.9	30.42	772.7	25.6	— 3.9	52	nw.	.....	.....	2	0	3 ck	.....	w.	0.087	2.2	fair	**H. Hattori.**
Awomori	30.34	770.6	30.38	771.6	21.8	— 5.7	77	w.	14.3	6.4	.....	.....	10 n	.....	.....	0.047	1.2	snowing	K. Ogawa.
Hakodate	30.35	770.8	30.36	771.2	17.7	— 7.9	97	nw.	6.0	2.7	.....	0	5	.....	.....	0.072	1.8	snowing	
Hamamatsu	30.24	768.1	30.27	768.8	36.8	2.7	42	calm	.....	.....	0	0	0	.....	.....	0	0	clear	
Kagoshima	30.27	768.9	30.28	769.2	45.5	7.5	75	n.	.....	.....	2	0	1 s	.....	.....	0.150	3.8	clear	**G. Miyanonaza.**
Kioto	30.19	766.9	30.37	771.5	37.3	2.9	83	n.	3.7	1.6	.....	.....	10 s	.....	.....	0	0	cloudy	M. Tojima.
Kochi	30.29	769.3	30.31	769.9	43.1	6.2	65	ene.	4.9	2.2	.....	3	0	w.	.....	0.071	1.8	fair	K. Kusunose.
Miasaka	30.28	769 1	30.31	769.8	40.1	4.5	84	calm	.....	.....	0	0	0	.....	.....	0.189	4.8	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.08	764.0	30.29	769.4	43.7	6.5	69	ne.	0.6	0.3	.....	1 c	0	wnw.	.....	0.120	3.0	clear	S. Takehayashi.
Niigata	30.30	771.1	30.40	772.1	35.0	1.7	74	n.	9.8	4.4	.....	.....	10 n	.....	.....	0.170	4.3	light snow	M. Moritu.
Nobiru	30.32	770.2	30.34	770.6	30.0	— 1.1	72	w.	1.3	0.6	.....	0	0	.....	.....	0.020	0.5	clear	H. Midzushima.
Numazu	30.26	768.6	30.30	769.5	41.6	5.3	75	ene.	.....	.....	2	.....	10 ks	.....	.....	0	0	cloudy	R. Kaneda.
Osaka	30.30	771.1	30.37	771.5	36.9	2.7	84	ne.	4.6	2.1	.....	1 cs	0	.....	.....	0	0	clear	H. Omura.
Sakai	30.38	771.6	30.39	771.9	38.2	3.4	82	e.	.....	.....	4	.....	10 n	.....	e	0.756	19.2	raining	K. Yamawchi.
Sapporo	.....	.....	.....	.....	13.0	—10.6	91	w.	5.6	2.5	.....	.....	10	.....	.....	0.020	0.5	covered	
Tokei Obs'y, Yeddo	30.24	768.2	30.33	770.3	34 6	1.4	88	calm	0	0	.....	0	0	.....	.....	0.188	4.8	clear	The Staff.
Wakayama	30.29	769.4	30.35	770.8	40.1	4.5	71	ne.	11.0	4.9	.....	0	0	.....	.....	0	0	clear	**K. Sakai.**
MAURITIUS.																			
Mauritius Observatory	29.65	753.1	29.83	757.7	82.1	27.8	66	ese.	16.5	7.4	.....	1 cs	4 k;ks	.....	se.	0.07	1.8	fair	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	52	11.1	93	nw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	clear	**H. Diaz Pena.**
Guanajuato	23.69	601.6	29.91	759.6	54.5	12.5	92	ese.	inap.	inap.	.....	0	6 k;ks	.....	sw.	inap.	inap.	fair	Prof. Vicente Fernandez.
Leon	24.32	617.7	30.10	764.5	50.4	10.2	89	wnw.	.....	.....	1	0	2 k	.....	.....	0.017	0.4	clear	Prof. M. Leal.
Mazatlan	29.72	754.8	29.98	761.5	61.5	16.4	88	ene.	1.6	0.8	.....	1 cs	0	.....	.....	0	0	hazy	F. Quijano, U. E.
Mexico, Central Obs'y	23.12	587.1	30.27	768.9	46.8	8.2	86	calm	0	0	.....	0	0	.....	.....	0.008	0.2	fine	The Staff.
Morelia	24.25	616.0	30.19	766.7	56.9	10.5	69	s.	.....	.....	1	1 c	1 k	s.	s.	0	0	clear	M. Tena, M. D.
Pabellon	23.96	608.6	30.00	761.9	53.4	11.9	90	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	
Puebla, Catholic Institute	23 39	594.0	30.29	769.3	44.1	6.7	81	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
Zacatecas	22.53	572.2	30.19	766.7	53 6	12.0	92	sw.	5.2	2.3	.....	0 cs	0	w.	.....	0	0	½ cloudy	I. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.19	766.8	30.19	766.8	41.4	5.2	.....	ese.	.....	.....	4	.....	.....	.....	.....	0.008	0.2	.....	
Groningen	30.31	769.8	30.36	771.2	35.8	2.1	.....	e.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.22	767.5	30.22	767.5	41.9	5.5	75	e.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	30.23	767.8	30.28	769.0	41.5	5.3	69	ese.	.....	.....	4	.....	2	.....	.....	0	0	lightly cl'dy	H. van der Brink
Sub-series.																			
Batavia, Java	29.80	757.0	.....	.....	79.3	26.3	83	nnw.	0	0	.....	.....	8	.....	.....	0.12	3.	.....	**Dr. I. P. van der Stok.**
NORWEGIAN.																			
Bergen	30.36	771.2	30.43	772.8	33.4	0.8	82	sse.	4	2	.....	.....	1	.....	.....	0	0	.....	
Brono	30.34	770.7	30.38	771.7	32.9	0.5	52	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Christiania	30.50	776.1	30.72	780.3	12.6	—10.8	93	e.	4	2	.....	.....	2	.....	.....	0	0	.....	
Gjæsvær	30.18	766.6	30.21	767.2	37.4	3.0	.....	ssw.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	
Lodingen	30.34	770.7	30.39	771.9	34.2	1.2	78	calm	.....	.....	0	.....	9	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	29.78	756.5	29.94	760.5	61.9	16.6	83	wnw.	15.0	6.7	.....	.....	5	.....	.....	0.118	3.0	.....	Dr. J. A. Sampaio.
Campo Major	28.98	736.1	29.98	761.0	56.8	13.8	99	ese.	19.2	8.6	.....	.....	7	.....	.....	.0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.15	765.9	30.24	768 1	61.7	16.5	50	se.	3.8	1.7	.....	.....	1	nw.	.....	0.031	0.8	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.66	753.3	30.02	762.0	52.3	11.3	83	calm	0.7	0.3	.....	.....	9	.....	.....	0.197	5.0	.....	The Staff.
Ponta Delgada, Azores	29.90	761.0	30.03	762.8	64.0	17.8	86	w.	10.5	4.7	.....	.....	3	.....	.....	0.142	3.6	.....	
Saint Paul de Loando	29.71	754.6	29.91	759.0	81.7	27.6	86	sw.	1.8	0.8	.....	.....	2	se.	.....	0	0	.....	
Serra da Estrella	25.18	639.5	30.02	762.6	36.0	2.2	100	se.	52.8	23.6	.....	.....	10	.....	.....	0	0	foggy	
RUSSIAN.																			
Akmolinski	29.05	737.8	30.24	768.2	4.1	—15.5	90	sw.	31	14	.....	5 ck	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	30.40	772.2	30.42	772.7	25.5	— 3.6	91	w.	13	6	.....	.....	10	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashuruda	30.37	771.4	30.38	769 6	44.1	6.7	74	n.	11	5	.....	0	0	.....	.....	0	0	.....	
Astrakhan	30.28	769.0	30.19	766.9	31.5	— 0.3	83	ese.	4	2	.....	.....	10	.....	.....	blank	blank	heavy clouds	Capt. Wisganow.
Baku	30.26	768.7	30.22	767.5	42.3	5.7	71	sse.	22	10	.....	0	0	.....	.....	0	0	.....	
Barnaul	29.72	755.0	30.27	768.9	10.9	—11.7	85	sw.	18	8	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Bielosersk	30.06	763.4	30.58	776.6	9.7	—12.4	90	w.	2	1	.....	0	0	.....	.....	0	0	.....	
Dorpat	30.35	770.8	30.01	777.6	12.9	—10.6	97	ene.	9	4	.....	0	0	.....	.....	blank	blank	.....	Observatory.
Ekaterinburg	28.97	735 9	30.00	762.1	15.4	— 9.2	81	w.	18	8	.....	4 c	0	.....	.....	0	0	.....	Meteorological Obs'y.
Elisawetgrad	29.66	753.3	30.13	765.2	35.1	1.7	78	calm	0	0	.....	7 cs	0	.....	.....	0	0	.....	
Irkutsk	28.63	727.2	30.48	774.1	— 0.9	—18.3	78	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Kasalinsk	29.98	761.4	30.15	765 9	14.7	— 9.6	60	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	
Kasan	30.00	762.0	30.29	769.4	18.0	— 7.8	83	n.	11	5	.....	.....	10	.....	.....	0.010	0.4	.....	Observatory.
Kem	30.50	774.7	30.55	776.0	14.0	—10.0	87	w.	13	6	.....	.....	2 ks	.....	.....	0	0	.....	
Kertch	30.01	762.2	30.03	762.7	39.7	4.3	89	calm	0	0	.....	.....	10 n	.....	.....	0.260	6.6	.....	Lagorio & Sastyrez.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Kieff	29.42	747.2	30.08	764.1	33.1	0.6	71	nnw.	7	3		0	8 ks			inap.	inap.	snowing	Observatory.
Koslov	29.52	749.9	30.09	764.3	23.2	— 4.9	98	ene.	13	6			10 s					snowing	
Libau	30.47	774.0	30.50	774.6	24.8	— 4.0	79	ene.	11	5			1			0.004	0.1		**E. Quaas.**
Lugan	29.80	756.9	29.99	761.8	34.5	1.4	78	nw.	9	4			9			0.075	1.9		Meteorological Obs'y.
Moscow	29.79	756.7	30.31	769.8	22.6	— 5.2	90	ene.	10.1	4.5			10 s			0.098	2.5		**Meteorological Obs'y**
Nikolaiev	30.04	762.9	30.11	764.8	34.2	1.2	89	n.	4	2		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.28	769.1	30.37	771.3	—20.6	—29.2	67	calm	0	0			0			0	0		**Iwanow.**
Pekin, China	30.42	772.6	30.57	776.4	21.6	— 5.8	55	se.	7	3		0	6 ks			0	0		**Physical Observatory.**
Petro-Alexandrovsk	30.17	766.2	30.55	775.9	21.9	— 5.6	55	calm	0	0		0	0			0	0		
Petrozavodsk	30.36	771.2	30.58	776.7	12.7	—10.7	86	nw.	7	3		0	0			0	0		**Dr. Bergmann.**
Pinsk	29.63	752.7	30.16	766.0	31.3	— 0.4	90	nnw.	9	4			10 s			0.024	0.6	snowing	
Poti	30.08	764.1	30.10	764.6	48.6	9.2	53	w.	4	2		0	8 n			0	0		
St. Petersburg	30.63	777.9	30.64	778.3	10.2	—12.1	77	calm	0	0		0	0			0	0		Central Physical Obs'y.
Samarkand	27.74	704.5	30.40	772.1	21.4	— 5.9	62	se.	7.8	3.5		3 c	0						
Semipalatinsk	29.71	754.6	30.43	772.8	8.6	—13.0	76	se.	9	4			9			0	0		Major **Lasarew.**
Sevastopol	29.77	756.2	30 00	762.1	36.9	2.7	94	ne.	11	5			10 n			0.382	9.7	heavy clouds	
Starot Bykhov	29.72	755.0	30.22	767.5	23.2	— 4.9	76	ne.	18	8			10			0.020	0.5		
Tashkend	28.73	729.8	30.55	776.0	20.8	— 6.2	56	calm	0	0		0	1 k			0	0		**Terch, A. M.**
Tiflis	28.72	729.5	30.19	766.7	41.9	5.5	40	calm	0	0		0	4 s			0	0	light clouds	Physical Observatory.
Veinoe	27.68	703.0	30.43	773 0	9.9	—12.3	75	calm	0	0		0	0						
Viatka	29.65	753.0	30.33	770.3	16.9	— 8.4		wnw.	4	2			10			0	0		
Vladivostock	30.50	774.8	30.57	776 5	7.3	—13.7	30	calm	0	0			0			0	0		
Warsaw	29.84	757.8	30.28	769.2	29.1	— 1.6	88	nne.	13	6			10			0.028	0.7	light snow	Astronomical Obs'y.
Wilna	29.88	758.9	30.33	770.4	26.2	— 3.2	91	ne.	4	2			10			0	0	heavy cl'ds.	**Berg, Assistant.**
Yeniseisk	29.76	755.8	30.07	763.8	10.0	—12.2	91	s.	4	2			10			0.150	3.8		**M. O. Marks.**
Scottish.																			
Monach Lt			29.59	751.6	44	6.7	92	s.			8		10			0.2	5.	sleeting	J. Youngclauss.
North Unst			30.02	762.5				s.			8		10						**Robt. Burnet.**
Spanish.																			
Barcelona, Met. Obs'y	29.97	761.2	30.08	764.0	54.9	12.7	66	sw.	0.9	0.4		0	6			0	0		Antonio Reve, Director.
Bilbao, Met. Obs'y	29.96	760.9	30.02	762.4	59.2	15.1	60	se.	6.3	2.8		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.06	687.4	30.06	763.4	50.4	10.2	67	s.	3.1	1.4		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.3	30.15	765.8	43.3	6.3	95	se.	3.1	1.4			10			0.008	0.2	foggy	The Staff.
Murcia, Met. Obs'y	29.95	760.6	30.08	763.9	55.0	12.8	80	sse.	1.1	0.5		2	7	w.		0	0	almost cov'd	Olayo Diaz, Director.
Oviedo	29.05	737.9	29.93	760.2	52.7	11.5	63	s.	4.6	2.1		2 ks	2 n	ae.	nw.	0	0	fair	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.97	735.7	29.86	758.5	54.0	12.2	91	sw.	12.5	5.6			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.89	759.3	29.95	760.7	78\5	25.8	69	ne.	4.4	2.0			1 k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.90	761.0	30.06	763.5	56.7	13.7	78	sse.	7.0	3.1			10			0.991	25.2		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.04	763.0	30.13	765.3	77.4	25.2	77	e.	18.3	8.2			10 kn	e.	e.	0.480	12.2	overcast	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	30.56	776.2	30.60	777.2	8.2	—13.2	92	s.			2		0			0	0		
Umea	30.62	777.8	30.67	779.1	— 3.3	—19.6	75	calm			0		0			0	0		
Hernosand	30.61	777.6	30.67	778.9	11.5	—11.4	93	calm			0		10			0	0		
Stockholm	30.51	775.0	30.69	779.5	22.3	— 5.4	80	ene.			2		10			0	0		
Wisby	30.50	774.7	30.56	776.2	27.7	— 2.4	96	ene.			4		3			0.024	0.6		
Sub-series.																			
Upsala	30.60	777.1	30.68	779.3	19.8	— 6.8	94	ne.	3.8	1.7			10			0	0		S. G. Fineman.
Swiss.																			
Geneva	28.72	729.4	30.20	767.1	35.4	1.9	85	e.			1		10			0	0	foggy	The Observatory.
Turkish.																			
Constantinople			30.13	765.2	39.6	4.2	90	nnw.	15	6.5			10		n.	0.106	2.7		The Observatory.
Valona			30.10	764.6	57.4	14.1		sw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.19	766.9	62.2	16.8	59	sw.			1		9 n;s		w.	0	0		Prof. C. V. A. van Dyck.
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	30.36	771.1	30.45	773.4	19	— 7.2	70	w.	4	1.8		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.43	747.5	30.14	765.5	5	—15.0	76	w.	13	5.8		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.90	632.4	30.00	762.0	34	1.1	75	sw.	8	3.6			10 s			0	0	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.12	688.8	30.16	766.1	1	—17.2	72	sw.	27	12.1			10 s		sw.	0.63	16.0	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.10	739.1	30.32	770.1	44.0	0.7	83	nw.	5	2.2			10 s			0.02	0.5	cloudy	H. C. Smyth.
Atlantic City, New Jersey	30.48	774.2	30.49	774.4	20	— 6.7	40	n.	4	1.8		0	0			0.08	2.0	clear	Jas. M. Watson.
Augusta, Georgia	30.16	766.1	30.36	771.1	52	11.1	72	ne.	4	1.8		0	9 s		sw.	0	0	cloudy	John Healy.
Baltimore, Maryland	30.50	774.7	30.55	776.0	27	— 2.8	64	n.	1	0.4		2 cs	0			0.23	5.8	clear	Geo W Felger.
Barnegat, New Jersey	30.49	774.4	30.51	774.9	21.0	— 6.1	70	n.	8	3.6		8 cs	2 k	nw.	nw.	0.05	1.3	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.85	758.2	29.87	758.7	21.5	— 5.8		nw.	22	9.8		0	4 k		nw.	0.01	0.3	fair	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.44	722.4	30.17	766 3	1	—17.2	72	calm	0	0		0	1 s			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.21	691.1	30.21	767.3	5	—15.0	75	sw.	8	3.6			10 s			0.12	3.0	cloudy	S. Wheaton.
Billings, Montana	26.74	679.2			— 5	—20.6	65	w.	8	3.6		0	0			0	0	clear	T. Gibson.
Bismarck, Dakota	28.10	713.7	30.08	764.0	7	—13.9	80	w.	15	6.7			10 s			0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.42	772.7	30.44	773.2	20	— 6.7	56	n.	15	6.7		3 cs	0	n.		0.04	1.0	clear	J. T. Elker.
Boise City, Idaho	27.35	694.7	30.31	769.9	— 8	—22.2	91	n.	1	0.4		0	4 s			0	0	fair	B. E. Light.
Boston, Massachusetts	30.29	769.4	30.45	773.4	18.0	— 7.8	59	w.	6	2.7		0	sk.			0	0	clear	O. B. Cole.
Brownsville, Texas	30.19	766.8	30.24	768.1	30.3	— 0.9	89	n.	5	2.2			10 s			0.01	0.3	cloudy	M. McCarty.
Buffalo, New York	29.57	751.1	30.37	771.4	10	—12.2	85	sw.	12	5.4		3 cs	3 s	sw.	sw.	inap.	inap.	fair	W. Finn.
Buford, Fort, Dakota	27 90	708.6	30.08	764.0	5	—15.0	76	w.	20	8.9		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	30.03	762.7	30.34	770.6	11.9	—11.2	80	s.	7	3.1		0	0			0	0	clear	D. N. Farnell.
Cairo, Illinois	29.92	760.0	30.34	770.6	20.0	— 6.7	84	ne.	5	2.2			10 n		ne.	0.02	0.5	sleeting	W. H. Ray.
Cape Henry, Virginia	30.50	774.7	30.52	775.2	35	1.7	79	nw.	16	7.2			10 s			0.17	4.3	cloudy	A. K. Alderson.
Cape May, New Jersey	30.50	774.7	30.53	775.4	25.0	— 3.9	64	ne.	7	3.1		0	0			0.12	3.0	clear	W. E. Smith.
Cape Mendocino, California	29.28	743.7	29.98	761.5	34	1.1	78	nw.	14	6.3		0	5 n		nw.	0.01	0.3	light snow	J. J. McLean.
Cedar Keys, Florida	30.22	767.6	30.24	768.1	66	18.9	93	e.	4	1.8		0	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.44	747.8	30.31	769.9	14.8	— 9.6	73	se.	4	1.8			10 s		se.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.26	768.6	30.32	770.1	52	11.1	93	ne.	16	7.2			10s;fg			0	0	threatening	J. H. Smith.
Charlotte, N. Carolina	29.50	749.3	30.39	771.9	42.0	5.6	92	e.	8	3.6			10s;fg		ne.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.46	748.3	30.32	770.1	40.5	4.7	78	ne.	3	1.3			10 s		ne.	0.03	0.8	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.74	603.0	29.99	761.7	0.8	—18.2	48	n.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.57	751.1	30.32	770.1	4.8	—15.1	58	sw.	5	2.2		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.49	774.4	30.51	774.9	28	— 2.2	64	ne.	14	6.3		3 cs	0			0.06	1.5	clear	O. F. Dickens.
Cincinnati, Ohio	29.68	753.9	30.37	771.4	23	— 5.0	88	ne.	4	1.8			10 s		w.	inap.	inap.	cloudy	R. B. Watkins.
Cleveland, Ohio	29.60	751.8	30.39	771.9	12	—11.1	80	se.	4	1.8		10 cs	0	w.		0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.22	716.8	30.10	764.5	15	— 9.4	83	s.	1	0.4			10 s			0.06	1.5	cloudy	L. Dorman.
Columbus, Ohio	29.47	748.5	30.37	771.4	20	— 6.7	84	ne.	3	1.3			10 s			0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.17	715.5	30.19	766.8	16.3	— 8.7	70	calm	0	0			10 s			0.01	0.3	cloudy	J. McGlone.
Davenport, Iowa	29.59	751.6	30.29	769.4	5	—15.0	76	sw.	2	0.		hz.	8 s			0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.08	637.0	30.04	763.0	40	4.4	67	se.	8	3.6			10 s		se.	0	0	threatening	J. Williams.
Dayton, Washington T'y	28.55	725.2	30.36	771.1	—19	—28.3	51	ne.	1	0.6		0	0			0	0	clear	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.18	639.6	30.10	764.5	3	—16.1	79	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.48	774.2	30.50	774.7	26	— 3.3	76	ne.	12	5.4	.....	4 ck	3 k	ne.	.....	0.14	3.6	fair	T. S. Townsend.
Denison, Texas	29.38	746.2	30.22	767.6	19.0	— 7.2	100	calm	0	0	.....	.....	10 n	.....	.....	0.05	1.3	light rain	J. W. Byram.
Denver, Colorado	24.49	622.0	30.01	762.2	3.0	—16.1	79	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.27	743.4	30.24	768.1	5	—15.0	49	sw.	5	2.2	.....	5 cs	0	w.	.....	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.61	752.1	30.36	771.1	10¤6	—11.9	87	sw.	4	1.8	.....	0	2 s	.....	w.	0	0	clear	E. R. Brace.
Dodge City, Kansas	27.31	693.7	30.05	763.3	10	—12.2	80	se.	12	5.4	.....	.....	8 s	.....	s.	0	0	cloudy	V. P. Temple.
Dubuque, Iowa	29.50	749.3	30.26	768.6	4.3	—20.2	47	calm	0	0	.....	.....	10 s	.....	sw.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.19	741.4	30.00	762.0	0	—17.8	68	sw.	12	5.4	.....	.....	10 s	.....	sw.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.41	747.0	30.25	768.3	26.0	— 3.3	76	nw.	1	0.4	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	F. Belford.
Eagle Rock, Idaho	25.22	640.6	30.12	765.0	—17	—27.2	100	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	30.28	769.1	30.35	770.9	6.0	—14.4	76	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.08	687.8	29.98	761.5	10	—12.2	44	s.	.....	.....	1	9 k	0	s.	.....	0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.10	662.9	29.98	761.5	38.7	3.7	73	nw.	4	1.8	.....	0	3 s	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.64	752.8	30.40	772.1	14	—10.0	80	sw.	7	3.1	.....	8 cs	0	.....	.....	0	0	cloudy	Peter Wood.
Escanaba, Michigan	29.37	746.0	30.09	764.3	— 4.0	—20.0	83	s.	11	4.9	.....	2 cs	8 s	s.	s.	0	0	cloudy	George Heathcote.
Fredericksburg, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.04	1.0	.....	Frank Halwegler.
Galveston, Texas	30.18	766.6	30.23	767.8	32	0.0	100	nw.	18	8.0	.....	.....	fg.	.....	n.	0.04	1.0	dense fog	E. O'C. MacInernay.
Grand Haven, Michigan	29.55	750.6	30.26	768.6	20.0	— 6.7	84	sw.	18	8.0	.....	0	9 s	.....	sw.	inap.	inap.	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.12	638.0	29.98	761.5	33	0.6	74	n.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.42	772.7	30.44	773.2	42	5.6	83	ne.	24	10.7	.....	.....	10 s	.....	e.	0.02	0.5	threatening	R. M. Crawford.
Helena, Montana	25.66	651.8	30.06	763.5	—12	—24.4	100	calm	0	0	.....	0	0	.....	.....	0.02	0.5	clear	N. C. Smith.
Henrietta, Texas	29.14	740.1	30.20	767.1	17	— 8.3	83	se.	4	1.8	.....	.....	10 s	.....	inap.	inap.	inap.	cloudy	J. P. Sherry.
Huron, Dakota	28.62	726.9	30.14	765.5	10.5	—11.9	29	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.51	749.5	30.30	771.1	12	—11.1	80	ne.	2	0.9	.....	0	9 s	.....	n.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.24	768.1	30.27	768.8	26.0	— 3.3	94	nw.	9	4.0	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	I. A. Reed.
Jacksboro, Texas	29.00	736.6	30.24	768.1	16	— 8.9	67	nw.	8	3.6	.....	.....	10 s	.....	nw.	0	0	cloudy	D. J. Carr.
Jacksonville, Florida	30.22	767.6	30.27	768.8	63	17.2	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. W. Smith.
Keogh, Fort, Montana	27.47	697.7	30.15	765.8	3	—16.1	76	sw.	7	3.1	.....	0	4 s	.....	.....	0	0	fair	A. Schneider.
Keokuk, Iowa	29.00	751.8	30.30	769.6	6.0	—14.4	76	e.	3	1.3	.....	.....	10 s	.....	calm	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.14	765.5	30.16	766.1	73.0	22.8	84	e.	8	3.6	.....	0	7 ks	.....	e.	0.16	4.1	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.46	773.7	30.48	774.2	39.5	4.2	69	ne.	22	9.8	.....	.....	10 ks	.....	nw.	0.16	4.1	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.23	742.4	30.31	769.9	37	2.8	100	ne.	3	1.3	.....	.....	10 n	.....	.....	0.05	1.3	light rain	J. A. Cody.
La Crosse, Wisconsin	29.33	745.0	30.17	766.3	3	—16.1	72	se.	12	5.4	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.29	744.0	30.24	768.1	11	—11.7	80	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.66	751.8	30.47	773.9	— 6.5	—21.4	76	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. Bell.
Little Rock, Arkansas	29.95	760.7	30.28	769.1	24	— 4.4	88	n.	4	1.8	.....	.....	10 n	.....	.....	0.05	1.3	sleeting	W. U. Simons.
Los Angeles, California	29.66	753.4	30.06	763.5	32	0.0	78	n.	4	1.8	.....	0	0	.....	.....	0.09	2.3	clear	T. S. Collins.
Louisville, Kentucky	29.71	754.6	30.30	769.6	25	— 3.9	73	e.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.74	755.4	30.40	773.7	36	2.2	79	e.	5	2.2	.....	.....	10 s	.....	e.	0.02	0.5	threatening	Louis Duane.
Mackinaw City, Michigan	29.35	745.5	30.05	763.3	16.0	— 8.9	83	sw.	23	10.3	.....	.....	10 n	.....	sw.	0.01	0.3	light snow	F. R. Day.
Macon, Fort, North Carolina	30.39	771.9	30.40	772.1	43.0	6.1	68	ne.	25	11.2	.....	.....	10 s	.....	ne.	inap.	inap.	cloudy	William Daly.
Madison, Wisconsin	29.14	740.1	30.23	767.8	4	—15.6	72	sw.	10	4.5	.....	10 cs	0	sw.	.....	0	0	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.52	648.2	30.06	763.5	3	—16.1	49	nw.	16	7.2	.....	0	0	.....	.....	inap.	inap.	clear	F. Burke.
McKavett, Fort, Texas	27.84	707.1	30.22	767.6	16	— 8.9	83	calm	0	0	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. E. Thatcher.
Marquette, Michigan	29.16	740.7	29.94	760.5	7	—13.9	52	w	19	8.5	.....	2 c	0	nw.	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	29.92	760.0	30.28	769.1	21	— 6.1	100	n.	3	1.3	.....	.....	10 n	.....	.....	0.02	0.5	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.45	748.0	30.25	768.3	5	—15.0	76	sw.	12	5.4	.....	.....	10 n	.....	sw.	0	0	cloudy	W. Line.
Missoula, Fort, Montana	26.94	684.3	30.37	771.4	—20	—28.9	100	calm	0	0	.....	.....	10 s	.....	.....	0	0	threatening	J. H. Young.
Mobile, Alabama	30.20	767.1	30.24	768.1	50.5	10.3	96	n.	4	1.8	.....	.....	10s;fg	.....	n.	0.05	1.3	cloudy	C. A. Read.
Montgomery, Alabama	30.01	762.2	30.25	768.3	51.4	10.8	85	ne.	3	1.3	.....	.....	10 s	.....	se.	0	0	cloudy	J. B. McLaughlin
Moorhead, Minnesota	28.92	734.6	30.02	762.5	7	—13.9	100	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.36	745.7	30.43	772.9	14.5	— 9.7	55	n.	1	0.4	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.46	595.9	30.08	764.0	—12.0	—24.4	100	nw.	60	26.8	.....	0	0	.....	.....	0.19	4.8	clear	S. W. Beall.
Nashville, Tennessee	29.67	753.6	30.28	769.1	29.0	— 1.7	88	e.	2	0.9	.....	.....	10 n	.....	e.	0.11	2.8	sleeting	L. N. Jesunofsky.
New Haven, Connecticut	30.35	770.9	30.47	773.9	14	—10.0	73	nw.	5	2.2	.....	3 c	0	w.	.....	0.01	0.3	clear	J. H. Sherman.
New London, Connecticut	30.46	773.7	30.51	774.9	20	— 6.7	70	calm	0	0	.....	0	0	.....	.....	0.02	0.5	clear	J. G. Lynch.
New Orleans, Louisiana	30.14	765.5	30.20	767.1	56.2	13.4	89	se.	9	4.0	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	L. Dunne.
Newport, Rhode Island	30.39	771.9	30.44	773.2	19.2	— 7.1	63	nw.	8	3.6	.....	2 c	0	nw.	.....	0.04	1.0	clear	W. McGillivray.
New York, New York	30.33	770.4	30.52	775.2	20	— 6.7	62	calm	0	0	.....	5 cs	0	.....	.....	0.01	0.3	fair	J. B. Merrill.
Norfolk, Virginia	30.47	773.9	30.50	774.7	35	1.7	79	ne.	7	3.1	.....	.....	10s;fg	.....	.....	0 41	10.4	cloudy	Wm. Davis.
North Platte, Nebraska	27.09	688.1	30.19	766.8	—10.4	—23.6	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.23	767.8	30.27	768.8	11.0	—11.7	61	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	J. Dascomb.
Omaha, Nebraska	28.96	735.6	30.23	767.8	11.7	—11.3	71	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Ooglaamie, Alaska	29.88	758.9	29.90	759 4	20.2	— 6.6	.....	w	50	22.4	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	P. H. Ray.
Oswego, New York	29.99	761.7	30.34	770.6	13.5	—10.3	52	s.	4	1.8	.....	0	1 k	.....	w.	0.01	0.3	clear	J. G. Linsley.
Palestine, Texas	29.68	753.9	30.20	768.6	24.0	— 4.4	88	nw.	4	1.8	.....	.....	10 n	.....	.....	0.10	2.5	light rain	L. M. Pindell.
Pensacola, Florida	30.20	767.1	30.23	767.8	54.3	12.4	92	ne.	5	2.2	.....	3 cs	0	.....	.....	0.36	9.1	clear	M. McGauran.
Philadelphia, Pa	30.41	772.4	30.52	775.2	25	— 3.9	48	calm	0	0	.....	3 cs	0	sw.	.....	0.26	6.6	clear	E. M. Mattison.
Pike's Peak, Colorado	17.33	440.2	30.05	763.3	0	—17.8	83	sw.	.....	.....	2	0	3 k	.....	sw.	0	0	clear	H. Hall.
Pioche, Nevada	23.68	601.5	29.84	757.9	11.8	—11.2	80	nw	7	3.1	.....	.....	10 n	.....	.....	0.01	0.3	light snow	C. N. Kitchel.
Pittsburg, Pennsylvania	29.57	751.1	30.43	772.9	19.0	— 7.2	84	ne.	1	0.4	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	W. A. Reid.
Poplar River, Montana	27.79	705.9	30.14	765.5	.....	.....	.....	nw.	.....	.....	5	0	8 s	.....	nw.	0	0	cloudy	W. O. Maxwell.
Port Eads, Louisiana	30.18	766.6	30.19	766.8	60.0	15.6	93	ne.	7	3.1	.....	0	8 s	.....	ne.	0	0	cloudy	H. B. Boyer.
Port Huron, Michigan	29.62	752.3	30.34	770.6	— 2.3	—19.1	93	s.	12	5.4	.....	10 cs	0	w.	.....	0	0	cloudy	W. O. Bailey.
Portland, Maine	30.36	771.1	30.41	772.4	13.0	—10.6	42	sw.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	W. W. Elchelberger.
Portland, Oregon	30.20	767.1	30.27	768.8	13.3	—10.4	55	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	43	6.1	83	ne.	28	12.5	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	F. S. Coburn.
Prescott, Arizona	24.46	621.3	29.82	757.4	28	— 2.2	80	sw.	8	3.6	.....	.....	10 n	.....	.....	0.04	1.0	light snow	Jas Cassidy.
Provincetown, Mass.	30.41	772.4	30.44	773.2	19	— 7.2	53	nw.	9	4.0	.....	2 cs	0	.....	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.20	767.1	30.22	767.6	67	19.4	93	ne.	5	2.2	.....	2 cs	0	.....	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.70	754.4	30.07	763.8	31	— 0.6	78	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	29.65	753.1	30.30	771.1	10	—12.2	80	sw.	16	7.2	.....	5 c	hz.	w.	.....	0	0	fair	E. W. McGann
Roseburg, Oregon	29.56	750.8	30.12	765 0	14.5	— 9.7	81	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.99	761.7	30.07	763.8	33.8	1.0	72	se.	7	3.1	.....	0	7 s	.....	s.	0	0	fair	J. A. Barwick.
St. Louis, Missouri	29.67	753.6	30.31	769.9	15.0	— 9.4	86	se.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.46	773.7	30.50	774.7	35	1.7	100	s.	12	5.4	.....	.....	10 n	.....	.....	0.02	0.5	light rain	A. P. Leavitt.
St. Paul, Minnesota	29.16	740.7	30.10	764.5	— 1.0	—18.3	87	calm	0	0	.....	4 cs	0	.....	.....	0	0	fair	P. F. Lyons.
St. Vincent, Minnesota	28.90	734.0	29.87	758.7	3	—16.1	85	w.	13	5.8	.....	0	0	.....	.....	0	0	clear	C. B Dilley.
Salt Lake City, Utah	25.43	645.9	29.99	761.7	11	—11.7	64	calm	0	0	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. Craig.
San Antonio, Texas	29.51	749.5	30.23	767.8	26.0	— 3.3	88	calm	0	0	.....	.....	10 n	.....	.....	0.02	0.5	sleeting	T. J. Kenan.
San Diego, California	29.98	761.5	30.06	763.5	45.1	7.3	65	nw.	8	3.6	.....	0	4 s	.....	.....	0.12	3.0	fair	A. C. Dobbins.
Sandusky, Ohio	29.67	753.6	30.39	771.9	13	—10.6	80	sw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.47	773.9	30.50	774.7	20.0	— 6.7	70	nw.	8	3.6	.....	3 k	0	nw.	.....	0.03	0.8	clear	B. A. Blundon.
San Francisco, California	29.99	761.7	30.06	763.5	39.5	4.2	73	se.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	22.90	581.6	29.98	761.5	30	2.2	66	s.	10	4.5	.....	1 k	3 s	sw.	sw.	0	0	fair	H. U. Jones.
Savannah, Georgia	30.22	767.6	30.31	769.9	56	13.3	86	e.	14	6.3	.....	.....	fg.	.....	.....	0	0	dense fog	H. W. Ford.
Shaw, Fort, Montana	26.31	668.3	30.16	766.1	1	—17.2	72	w.	7	3.1	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.98	761.5	30.24	768.1	29	— 1.7	88	n.	2	0.9	.....	.....	10 s	.....	.....	0.20	5.1	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.92	734.6	30.23	767.8	15.5	— 9.2	72	s.	8	3.6	.....	.....	10 ks	.....	s.	0	0	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.09	611.9	29.94	760.5	33.5	0.8	65	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. B. Lane.
Sitka, Alaska	30.40	772.1	30.47	773.9	32	0.0	80	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.72	754.9	30.22	767.6	25.0	— 3.9	88	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.35	770.9	30.39	771.9	46	7.8	83	ne.	15	6.7	.....	.....	10 s	.....	ne.	0.01	0.3	cloudy	O. Parker.

STATIONS.	Barometer: Corrected for instrumental error and for temperature.		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.22	716.8	30.35	770.9	— 6.4	—21.3	62	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Springfield, Illinois	29.60	751.8	30.33	770.4	16	— 8.9	80	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	T. B. Jennings.
Springfield, Missouri	28.70	729.0	30.21	767.3	21.0	— 6.1	91	s.	4	1.8	.....	.....	10 n	.....	.....	0.03	0.8	sleeting	J. H. Bryce.
Starkville, Miss.	29.76	755.9	30.26	768.6	33	0.6	92	calm	0	0	.....	.....	fg.	.....	.....	0.10	4.1	dense fog	C. Dill.
Stevenson, Fort, Dakota	28.03	711.9	30.05	763.3	4	—15.6	76	w.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	A. Schneider.
Stockton, Fort, Texas	26.95	684.5	30.08	764.0	22	— 5.6	73	n.	5	2.2	.....	6 k	0	nw.	.....	0	0	fair	A. J. Warren.
Thatcher's Island, Mass.	30.40	772.1	30.46	773.7	14.0	—10.0	72	nw.	11	4.9	.....	3 c	0	w.	.....	0	0	clear	G. Liebmann.
Thomas, Camp, Arizona	27.12	688.8	29.94	760.5	41	5.0	76	e.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.63	752.6	30.37	771.4	10	—12.2	80	w.	4	1.8	.....	7 cs	0	w.	.....	0	0	fair	A. Buell.
Tucson, Arizona	27.46	697.5	29.93	760.2	41	5.0	59	n.	3	1.3	.....	0	2 s	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.18	766.6	30.56	776.2	—16	—25.7	100	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	37.4	3.0	82	s.	.....	.....	1	4 cs	5 s	sw.	s.	0.01	0.3	cloudy	O. E. Pease.
Vicksburg, Mississippi	29.97	761.2	30.24	768.1	36.9	2.7	93	ne.	3	1.3	.....	.....	fg.	.....	.....	0.64	16.3	dense fog	James Kenealy.
Visalia, California	29.71	754.6	30.09	764.3	31.2	—0.4	91	sw.	4	1.8	.....	0	3 s	.....	.....	0.05	1.3	clear	O. D. Stewart
Washakie, Fort, Wyoming.	24.27	616.4	30.03	762.7	—37.8	—38.8	.....	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.42	772.7	30.54	775.7	24.7	— 4.1	77	e.	2	0.9	.....	3 c; k	2 s	sw.	.....	0.30	7.6	fair	B. M. Purssell.
West Las Animas, Colorado	25.79	655.1	29.92	760.0	— 6	—21.1	100	nw.	3	1.3	.....	0	1 s	.....	sw.	0	0	clear	F. H. Brandenburg
Williamsport, Pa.	29.82	757.4	30.45	773.4	13.8	—10.1	80	calm	0	0	.....	.....	hz.	.....	.....	0	0	dense haze	B. F. Hough.
Wilmington, N. Carolina	30.34	770.6	30.40	772.1	47	8.3	86	e.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.49	647.4	30.01	762.2	— 5.5	—10.1	84	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. H. Atfield.
Yuma, Arizona	29.85	758.2	30.00	762.0	43.1	6.2	72	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.01	559.0	.....	.....	51.6	10.6	70	calm	0	0	.....	3c; cs	3 s	n.	w.	0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	69	20.6	77	n.	1	0.4	.....	0	0	.....	.....	0	0	clear?	Robert Johnston.
Paramaribo, S. A.	30.02	762.5	30.03	762.7	75	23.9	95	se.	.....	.....	3	.....	10 n	.....	e.	0.450	11.4	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.30	744.2	29.86	758.4	78	25.6	84	s.	.....	.....	1	5 c	0	calm	.....	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	76	24.4	92	ne.	.....	.....	4	.....	.....	.....	.....	0	0	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.60	777.2	30.66	778.7	31	— 0.6	78	calm	.....	.....	0	6 cs?	0	.....	.....	0	0	clear	W. J. Fisher.
St. Thomas, W. I.	30.04	763.0	30.17	766.3	75	23.9	71	e.	.....	.....	.....	1 k	5 k	e.	e.	0.07	1.8	fair	Aug. Wallon.
Havana, Cuba	30.05	763.3	30.12	765.0	69.9	21.1	87	e.	5	2.2	.....	0	1 k	.....	se.	0	0	clear	Benito Vines, S. J.
York Factory, B. A.	29.82	757.4	29.89	759.2	—31.0	—35.0	.....	w.	16	7.2	.....	1 c	0	w.	.....	0	0	fair	Fortesque & Wood.

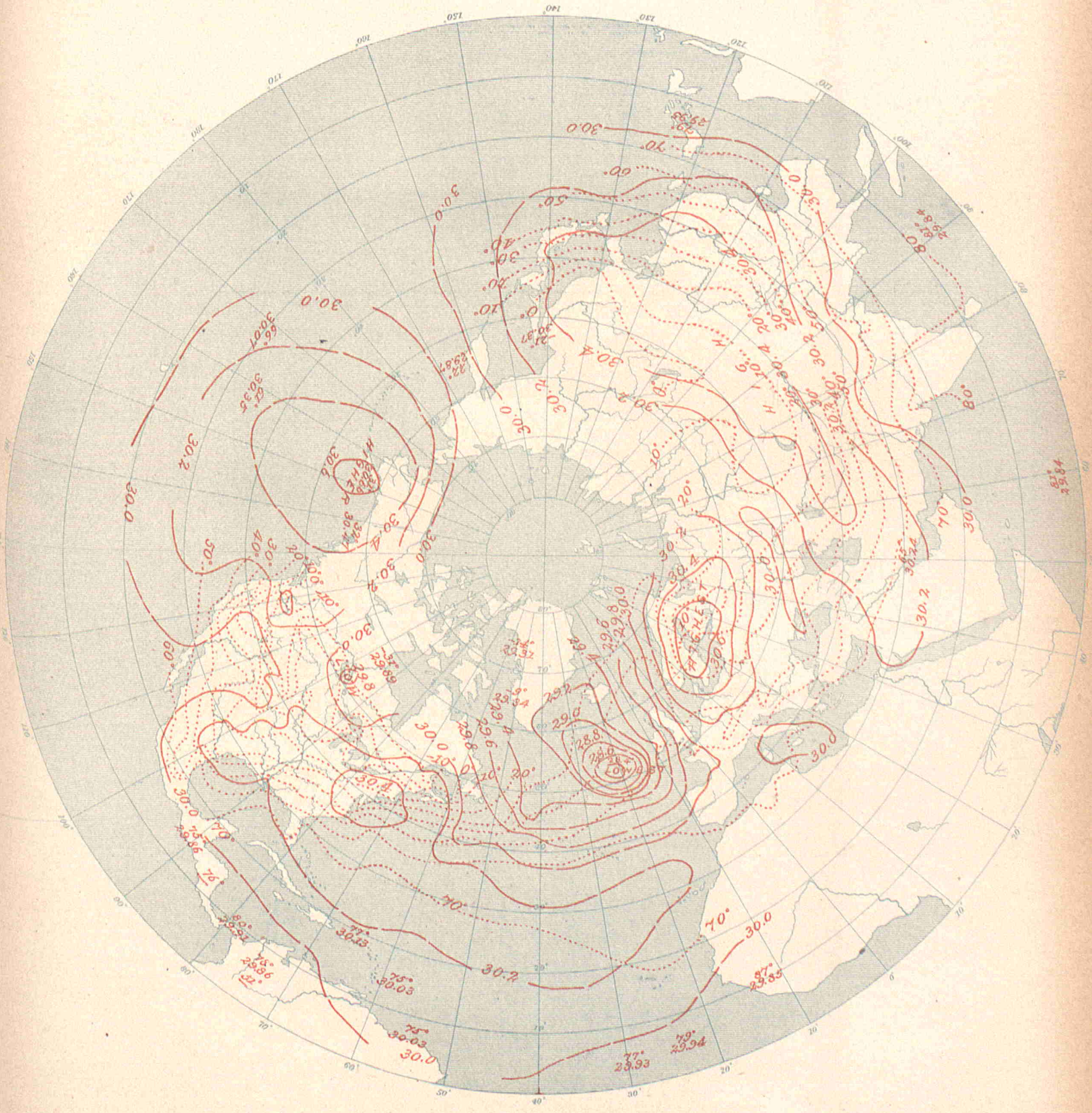
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell: Character.	Sea-swell: Direction from	Weather.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. Dock Yard, Bermuda, W. I.	30.28	769.1	66	18.9	87	wsw.	.....	.....	1–2	.....	5	wsw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Fawn, N. 3° 00′, W. 23° 58′	29.94	760.5	79	26.1	100	nne.	.....	.....	3	.....	4	.....	.....	.....	.....	3	nne.	d. clouds.
H. M. S. Iron Duke, N. 35° 53′, E. 14° 30′	29.98	761.5	66	18.9	78	ese.	.....	.....	1–3	.....	0	.....	.....	.....	.....	2	ese.	squally.
H. M. S. Monarch, Port Said, Egypt	30.20	767.1	65	18.3	73	nw.	.....	.....	2–3	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. Frigate, Vanadis, N. 42° 45′, E. 16° 28′	30.08	764.1	50.5	10.3	64	ene.	.....	.....	1	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	30.41	772.4	10	—12.2	7	wnw.	4	1.8	.....	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Alliance, N. 23° 00′, W. 83° 48′	30.13	765.3	76	24.4	90	ene.	.....	.....	2–3	.....	2	.....	.....	light	light	sm'h	.....	clear.
U. S. S. Enterprise, St. Vincent, Cape Verde Islands*	30.14	765.8	70	21.1	71	ene.	.....	.....	3	.....	2	.....	ne.	.....	.....	sm'h	.....	clear.
U. S. S. Jamestown, N. 21° 49′, W. 53° 10′	30.23	767.8	72	22.2	80	e.	.....	.....	5	.....	5	.....	e.	.....	.....	mod.	e.	fair.
U. S. S. Kearsarge, Curacoa Island, W. I	29.99	761.7	79	26.1	95	ene.	.....	.....	4	.....	8	.....	ene.	.....	.....	.....	.....	fair.
U. S. S. Lancaster, Gibraltar, Mediterranean	30.05	763.3	56	13.3	100	s.	.....	.....	3	.....	8	.....	s.	.....	.....	sm'h	.....	fair.
U. S. S. Nipsic, N. 22° 55′, W. 39° 52′	30.32	770.1	73	22.8	71	ene.	.....	.....	4	.....	10	.....	.....	.....	.....	long	n.	cloudy
U. S. S. Quinnebaug, N. 41° 55′, E. 4° 45′	30.13	765.3	58	14.4	81	se.	.....	.....	1	.....	8	.....	se.	.....	.....	long	ese.	cloudy.
U. S. S. St. Louis, League Island, Pa.	30.53	775.4	13	—10.6	81	calm	0	0	.....	.....	2	.....	.....	blank	blank	.....	.....	clear.
U. S. S. Tennessee, St. Croix, W. I*	30.10	764.5	79	26.1	82	ene.	14	6.3	.....	.....	2	.....	.....	0.07	1.8	.....	.....	fair.
U. S. S. Vandalia, Gonaives, Hayti, W. I*	30.17	766.3	76	24.4	76	nne.	.....	.....	3	.....	1	.....	ne.	.....	.....	.....	.....	clear.
U. S. S. Yantic, N. 18° 09′, W. 87° 03′	30.04	763.0	78	25.6	90	ene.	.....	.....	4	.....	2	.....	.....	.....	.....	mod.	var.	clear.
S. S. British Crown, N. 39° 50′ W. 57° 06′ †	29.96	761.0	46	7.8	.....	nnw.	.....	.....	5	.....	9	.....	nnw.	5 h'r	5 h'r	mod.	n.	cloudy.
S. S. British Prince, N. 49° 09′, W. 32° 00′ †	29.42	747.3	38	3.3	.....	wnw.	.....	.....	6	.....	4	.....	nnw.	5 h'r	5 h'r	h'vy	w.	
S. S. Illinois, N. 40° 18′ W. 69° 45′	30.35	770.9	32	0.0	89	nw.	.....	.....	4	.....	2	.....	nw.	.....	.....	sm'h	nw.	clear.
S. S. Indiana, N. 39° 11′, W. 69° 48′	.....	.....	40	4.4	82	nnw.	.....	.....	3	.....	2	.....	n.	.....	.....	mod.	w.	fine.
S. S. Lord Clive, N. 51° 22′, W. 11° 30′	29.48	748.8	.....	.....	.....	s.	.....	.....	7	.....	9	.....	sw.	sh'rs	sh'rs	str'g	var.	cloudy.
S. S. Pennsylvania, N. 50° 50′, W. 24° 48′†	28.27	718.0	41	5.0	91	var.	.....	.....	2	.....	10	.....	se.	11 h'r	11 h'r	r'gh	se.	overcast.
S. S. Circassian, N. 52° 18′, W. 34° 28′*	29.24	742.7	28	— 2.2	.....	wnw.	.....	.....	5	.....	4	.....	wnw.	6 h'r	6 h'r	3	wnw.	d. clouds.
S. S. Manitoban, N. 5c° 28′, W. 35° 19′	29.34	745.2	30	2.2	.....	wnw.	.....	.....	2	.....	5	.....	nw.; e	4 h'r	4 h'r	sli't	w.	fair.
S. S. Scandinavian, N. 44° 31′ W. 49° 55′	29.82	757.4	23.5	— 4.7	.....	w.	.....	.....	6	.....	2	.....	w.	12 h'r	12 h'r	mod.	w.	d. clouds.
S. S. Stella, N. 39° 52′, W. 66° 00′	30.30	769.7	35.6	2	.....	n.	.....	.....	3	.....	4	.....	n.	4 h'r	4 h'r	2	nnw.	d. clouds.
S. S. Ailsa, N. 11° 15′, W. 74° 17′†	29.82	757.4	79	26.1	86	ne.	.....	.....	7	.....	8	.....	ne.	o	o	r'gh	ne.	cloudy.
S. S. Anchoria, N. 41° 25′, W. 62° 52′ †	30.28	769.1	.....	.....	.....	n.	.....	.....	3	.....	8	.....	n.	5 h'r	5 h'r	sm'h	.....	cloudy.
S. S. Assyria, N. 34° 40′, W. 12° 34′	30.11	764.8	61	16.1	77	nw.	.....	.....	6	.....	2	.....	nw.	3 h'r	3 h'r	r'gh	nw.	
S. S. Dorian, N. 42° 02′, W. 48° 27′	29.88	758.9	38	3.3	.....	nw.	.....	.....	6	.....	4	.....	nw.	snow	snow	mod.	w.	fine.
S. S. Galatia, N. 33° 27′, E. 23° 47 †	30.17	766.3	66.3	19.1	?	sse.	.....	.....	3	.....	7	.....	sse.	.....	.....	mod.	se.	cloudy.
S. S. Landaff City, N. 42° 10′, W. 63° 50′	.....	.....	22	— 5.6	.....	nw.	.....	.....	6	.....	9	.....	w.	.....	.....	sm'h	.....	cloudy.
S. S. Bothnia, N. 48° 13′, W. 33° 44′	29.34	745.2	39	3.9	91	nne.	.....	.....	2	.....	8	.....	nw.	sleet	sleet	.....	w.	showery.
S. S. Gallia, N. 41° 27′, W. 63° 10	30.19	766.8	30	— 1.1	.....	nnw.	.....	.....	6	.....	8	.....	nnw.	snow	snow	mod.	wnw.	fair.
S. S. Pavonia, N. 51° 32′, W. 21° 44′	.....	.....	52	11.1	86	se.	.....	.....	5	.....	4	.....	s.	3 h'r	3 h'r	h'vy	se.	fair.
S. S. Colina, N. 53° 56′ W. 13° 50′ †	29.24	742.7	.....	.....	.....	sse.	.....	.....	6	.....	1	.....	calm	1 h'r	1 h'r	mod.	w.	clear.
S. S. Labradore, N. 42° 51′ W. 49° 16′	.....	.....	30.2	— 1.	.....	w.	.....	.....	4	.....	10	.....	.....	snow	snow	h'vy	wsw.	
S. S. Pereire, N. 51° 22′, W. 18° 24′ †	28.56	725.3	49.1	9.5	.....	s.	.....	.....	9	.....	10	.....	s.	rain	rain	h'vy	sse.	raining.
S. S. Ville de Marseilles, Vera Cruz, Mexico†	30.20	767.1	66	18.9	.....	nnw.	.....	.....	6	.....	8	.....	nw.	shr's	shr's	r'gh	nnw.	cloudy.
S. S. Arizona, N. 40° 35′, W. 65° 52′	30.33	770.4	34	1.1	.....	nnw.	.....	.....	3	.....	8	.....	nw.	2 h'r	2 h'r	mod.	nw.	¾ cloudy.
S. S. Abyssinia, N. 50° 30′, W. 18° 56′	28.44	722.4	49	9.4	93	se.	.....	.....	9	.....	8	.....	se.	h'vy	h'vy	r'gh	s.	squally
S. S. Bohemia, N. 50° 04′, W. 3° 05′ †	29.91	759.7	.....	.....	.....	s.	.....	.....	4–5	.....	5 8	.....	.....	o	o	long	w.	fair.
S. S. Silesia, N. 50° 56′, W. 19° 10′†	28 49	723 6	.....	.....	.....	s.	.....	.....	9–10	.....	5	.....	.....	.....	.....	8	sw.	rainy.
S. S. Bulgarian, N. 51° 03′, W. 21° 43′*	28.33	719.6	.....	.....	.....	ssw.	.....	.....	8	.....	10	.....	sw.	3 h'r	3 h'r	high	sw.	cloudy.
S. S. Virginian, N. 42° 20′ W. 62° 45′ *	30.34	770.6	24	— 4.4	.....	nnw.	.....	.....	6	.....	10	.....	nne.	o	o	mod.	nw.	cloudy.
S. S. Archimede, N. 2° 17′, W. 30° 28′	29.86	758.4	.....	.....	.....	ne.	.....	.....	3	.....	10	.....	ne.	5 h'r	5 h'r	mod.	ne.	rainy.
S. S. Colorado, N. 33° 02′, W. 78° 05′ †	30.35	770.9	62	16.7	.....	ne.	.....	.....	5	.....	10	.....	ne.	24 h'r	24 h'r	high	ne.	cloudy.
S. S. San Marcos, N. 29° 10′, W. 80° 10′	30.15	765.8	74	23.3	.....	e.	.....	.....	4	.....	0	.....	.....	o	o	sm'h	.....	hazy.
S. S. Chalmette, N. 36° 03′ W. 75° 00′†	30.44	773 2	42	5.6	.....	ne.	.....	.....	5	.....	10	.....	nne.	1 h'r	1 h'r	mod.	nne.	cloudy.
S. S. Lone Star, N. 26° 23′ W. 85° 28′†	30.19	766.8	74	23.3	.....	ene.	.....	.....	2	.....	2	.....	e.	o	o	small	e.	fine.
S. S. Hermod, N. 43° 40′, W. 40° 45′†	29.56	750.8	42.8	6	.....	w.	.....	.....	5	.....	8	.....	w.	6 h'rs	6 h'rs	cross	wnw.	threatening.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																	
S. S. Alleghany, Norfolk, Va†	30.58	776.7	38	3.3	.....	n.	.....	.....	4	.....	6	.....	ne.		o	o	.....	.....	cloudy.
S. S. Archimede, N. 33° 44′, W. 9° 03′†	29.97	761.2	62	16.7	.....	w.	.....	.....	3	.....	6?	.....	wnw.		3 h'r	3 h'r	r'gh	var.	cloudy.?
S. S. Picqua, N. 38° 30′ W. 47° 30′	.....	.....	68	20.0	.....	w.	.....	.....	4	.....	4?	.....	wsw.		light	light	hv'y	w.	overcast.?
S. S. City of Washington, N. 23° 11′ W. 82° 22′ †	30.23	767.8	78	25.6	.....	ene.	.....	.....	4	.....	5	.....	ne.		o	o	mod.	ene.	fine.
S. S. Santiago, N. 19° 50′ W. 77° 52′	30.08	764.0	75	23.9	.....	ne.	.....	.....	3	.....	o	.....	.....		o	o	mod.	e.	fine.
S. S. Erin, N. 40° 50′, W. 67° 37′	30.30	769.6	28	— 2.2	.....	n.	.....	.....	6	.....	8	.....	nnw.		4 h'r	4 h'r	mod.	nnw.	
S. S. Greece, N. 49° 46′, W. 10° 20′	29.17	740 9	51	10.6	.....	se.	.....	.....	8	.....	10	.....	se.		17 h'r	17 h'r	h'vy	se.	stormy.
S. S. America, N. 40° 00′, W. 61° 42′ *	30.17	766.3	44.0	6.7	92	nnw.	.....	.....	5	.....	10	.....	nw.		8 h'r	8 h'r	mod.	nnw.	overcast.
S. S. Braunschweig, N. 14° 08′, W. 26° 14′	30.10	764.5	74.0	23.3	81	nne.	.....	.....	5	.....	5?	.....	nne.		o	o	long	nne.	cloudy.?
S. S. Hermann, N. 45° 02′, W 42° 53′	29.29	744 0	50	10.0	74	nw.	.....	.....	8	.....	8	.....	nw.		6 h'r	6 h'r	8	nw.	stormy.
S. S. Muriel, N. 33° 15′, W. 69° 30′*	30.31	769 9	66	18.9	.....	ne.	.....	.....	3	.....	10	.....	.....		.....	.....	mod.	ene.	cloudy.
S. S. Belgenland, N. 41° 10′, W. 64° 05′*†	30.40	772.1	27	— 2.8	.....	nnw.	.....	.....	6	.....	8	.....	n		9 h'r	9 h'r	mod.	n.	squally.
S. S. Nederland, N. 49° 55′ W. 13° 59′	.....	.....	48	8.9	92	s.	.....	.....	6	.....	10	.....	s.		6 h'r	6 h'r	cross	ssw.	misty.
S. S. Rhynland, Antwerp, Belgium	30.36	771.1	42	5.6	83	se.	.....	.....	5	.....	3	.....	se.		o	o	.....	.....	light haze.
S. S. Pennland, N. 49° 39′, W. 10° 23′	29.61	752.1	51	10.6	94	ssw.	.....	.....	6	.....	2	.....	s.		o	o	short	s.	squally.
S. S. Wassland, N. 45° 20′, W. 48° 34′	29.85	758.2	22	— 5.6	.....	wnw.	.....	.....	6	.....	5	.....	w.		hail	hail	rg'h	wnw.	fair.
S. S. Zeeland, N. 49° 40′, W. 10° 40′*†	29.36	746.2	49	9.4	86	sse.	.....	.....	7	.....	1?	.....	s.		4 h'r	4 h'r	r'gh	s.	cloudy?
S. S. P. Caland, N. 50° 05′, W. 20° 42′	28.36	720.3	48.2	9.0	.....	sse.	.....	.....	9	.....	10	.....	s.		.....	.....	S	ssw.	stormy.
S. S. Schiedam, N. 49° 49′, W. 6° 48′	.....	.....	54.9	12.7	90	se.	.....	.....	6	.....	5?	.....	var.		3 h'r	3 h'r	h'vy	se.	cloudy.?
S. S. Zaandam, N. 41° 07′, W. 66° 19′	30.37	771.4	54.7	12.6	82	n.	.....	.....	3	.....	8 n	.....	w.		12 h'r	12 h'r	2	nw.	
S. S. Claudius, Greytown, Nicaragua, C. A†	30.03	702.7	79.2	26.2	78	ene.	.....	.....	3	.....	5	.....	ene.		hv'y	hv'y	long	ne.	rainy.
S. S. Valencia, La Guayra, Venezuela†..	30.04	703.0	79	26.1	... ...	ene.	.....	.....	5	.....	3	.....	ene.		5 h'r	5 h'r	h'vy	ne.	fine.
S. S. State of Indiana, N. 45° 07′, W. 46° 35′	.....	.....	26	— 3.3	.....	w.	.....	.....	7	.....	9	.....	w.		14 h'r	14 h'r	high	w.	snowy.
S. S. Romano, N. 41° 56′, W. 42° 52′*	29.83	757.7	46	7.8	.....	wnw.	.....	.....	4	.....	10	.....	nw.		8 h'r	8 h'r	h'vy	w.	squally.
S. S. Salerno, N. 51° 52′, E. 1° 58′†	30.15	765.8	48	8.9	.....	e.	.....	.....	4	.....	4	.....	se.		o	o	sm'h	se.	fine.
S. S. Brooklyn, N. 49° 28′, W. 32° 45′..	.....	.....	36	2.2	.....	wnw.	.....	.....	7	.....	.....	.....	w.		2 h'r	2 h'r	h'vy	wnw.	clear.
S. S. Dominion, N. 51° 23′, W. 8° 33′	.....	.....	50	10.0	.....	s.	.....	.....	5	.....	10	.....	s.		8 h'r	8 h'r	h'vy	s.	misty.
S. S. Surrey, N. 46° 19′ W. 39° 13′†	29.48	748 9	36	2.2	.....	w.	.....	.....	9	.....	8	.....	w.		5 h'r	5 h'r	h'vy	var.	cloudy.
S. S. Lake Huron, N. 41° 42′, W. 61° 01′	.....	.....	36	2.2	.....	nw.	.....	.....	0	.....	8	.....	nw.		5 h'r	5 h'	mod.	nw.	
S. S. Plantyn, N. 51° 01′, W. 20° 52′	.....	.....	.....	.....	.....	.....	.....	.....	10	.....	9	.....	w.		o	o	high	wsw.	gale.
S. S. Catherine Whiting, Philadelphia, Pa†	30.47	773.9	60	15.6	.....	calm	.....	.....	0	.....	.....	.....	.....		o	o	.....	.....	clear.
S. S. Norman, N. 39° 59′, W. 75° 08′*†	30.45	773.4	.....	.....	.....	sw.	.....	.....	1	.....	.....	.....	sw.		o	o	.....	.....	cloudy.
S. S. Adriatic, N. 43° 48′, W. 48° 47′†	29.83	757.7	29	— 1.7	.....	w.	.....	.....	0	.....	9	.....	w.		2 h'r	2 h'r	mod.	wsw.	gloomy.
S. S. Baltic, N. 46° 12, W. 38° 57′*	29.50	749.3	37	2.8	90	nw.	.....	.....	0	.....	9	.....	nw.		snow	snow	r'gh	nw.	snowing.
S. S. Iowa, N. 44° 10′, W. 46° 27′*†	29.82	757.4	32	0.0	.....	w.	.....	.....	5	.....	9	.....	w.		5 h'r	5 h'r	mod	w.	snowy.
S. S. Antonio Lopez, N. 23° 24′ W. 39° 01′	30.29	769.4	74.5	23.6	63	ne.	.....	.....	4	.....	1	.....	.....		o	o	long	nne.	clear.
Schr. Abbie H. Ghegn, Hampton Roads, Va†	30.57	776.5	37	2.8	.....	ne.	.....	.....	4	.....	.....	.....	.....		.....	.....	.....	.....	cloudy.
Bk. Abbie Clifford, N. 23° 30′, W. 81° 05′ †	30.17	766.3	76	24.4	.....	e.	.....	.....	3	.....	1	.....	e.		o	o	sm'h	.....	fine.
Bk. Alcira, Maracaybo, Venezuela, S. A	29.95	760.7	84	28.9	.....	ene.	.....	.....	1	.....	2	.....	ne.		o	o	.....	.....	clear.
Schr. Anna A. Holton, Tampico Mexico† ..	30.17	766.3	61	16.1	.....	n.	.....	.....	2	.....	10	.....	n.		2 h'r	2 h'r	sm'h	.....	foggy.
Schr. A. R. Lewis, St. Pierre, W. I†	30.14	765.5	78	25.6	.....	ene.	.....	.....	1	.....	8	.....	ene.		3 h'r	3 h'r	.....	.....	raining.
Bk. Anna Thormann, N. 2° 09′, W. 27° 31′*	30.03	762.7	77.4	25.2	92	ne.	.....	.....	1	.....	10n	.....	ne.		sh's	sh's	r'gh	nne.	rainy.
Bk. Aureol., Swansea, Wales*†	30.10	764.5	45	7.2	.....	se.	.....	.....	0	.....	9	.....	se.		o	o	.....	.....	cloudy.
Bk. Achille F, N. 45° —′, W. 23° —†	29.51	749.5	50	10.0	86	w.	.....	.....	9	.....	7	.....	wsw.		5 h'r	5 h'r	high	w.	squally.
S. Armenia, N. 33° 25′, W 45° 50′*	30.15	765.8	65	18.3	89	wsw.	.....	.....	5	.....	9	.....	wsw.		o	o	gr'd	nw.	
Bg. Belle of the Bay, N. 29° 21′, W. 87° 46′†	30.15	765.8	.....	.....	.....	ene.	.....	.....	4	.....	2	.....	se.		1 h'r	1 h'r	sm'h	se.	clear.
Bk. Bremen, N. 28° 52′, W. 68° 49′*	30.32	770.1	.....	.....	.....	ene.	.....	.....	2	.....	2	.....	ene.		o	o	light	var.	clear.
S. S. Benledi, N. 40° 00′, W. 54° 30′ *	30.03	762.7	52	11.1	93	n.	.....	.....	4	.....	6	.....	ne.		12 h'r	12 h'r	short	n.	showery.
Bkt. Bonny Doon, N. 26° 55′, W. 64° 04′*†	30.24	768.1	.....	.....	.....	e.	.....	.....	2	.....	2?	.....	ene.		o	o	sm'h	e.	cloudy.?
Bk. Bare, N. 31° 02′, W. 37° 40′	.....	.....	67	19.4	.....	sw.	.....	.....	3	.....	2	.....	nnw.		o	o	long	n.	fair.
Bk. Pilgrim, N. 37° 06′, W. 59° 54′*†	30.20	767.1	.....	.....	.....	n.	.....	.....	4	.....	10	.....	.....		o	o	mod.	n.	overcast.
Bk. Champion, N. 39° 44′, W. 50° 47′†	29.85	758.2	52	11.1	.....	nnw.	.....	.....	6	.....	8	.....	n.		12 h'r	12 h'r	cross	nne.	cloudy.
Bkt. C. S. Bushnell, N. 30° 30′, W. 22° 45′	30.12	765.0	.....	.....	.....	w.	.....	.....	3	.....	8	.....	nw.		light	light	h'vy	nw.	hazy.
S. Cornelius, N. 59° 31′, W. 18° 01′†	29.28	743.7	44.4	6.9	.....	s.	.....	.....	5	.....	3	.....	.....		2 h'r	2 h'r	h'vy	wsw.	fair.
Bk. Commerce, Cadiz, Spain †	29.97	761.2	56	13.3	.....	ssw.	.....	.....	6	.....	8	.....	ssw.		o	o	.....	.....	threatening.
Bk. Ceres, N. 23° 41′, W. 34° 35′*	30.34	770.6	70.2	21.2	76	e.	.....	.....	4–5	.....	7	.....	var.		inap.	inap.	long	var.	clearing.
Bk. Chas. Stewart, N. 34° 50′, W. 52° 50′ †	30.20	768.6	66	18.9	.....	wsw	.....	.....	7	.....	5	.....	wsw.		sh'rs	sh'rs	long	var.	misty.
Schr. Edith R. Seward, N. 18° :5′, W. 70° 00′†	30.17	766.3	79	26.1	.....	ne.	.....	.....	2	.....	3	.....	ne.		o	o	mod.	ese.	clear
S. E. J. Spicer, N. 43° 16′, W 25° 05′	29.05	753.1	53	11.7	93	wnw.	.....	.....	8	.....	6	.....	nw.		rain	rain	high	wnw.	fair.
S. Festina Lente, N. 58° 51′, W. 10° 11′	29.27	743.4	43	6.1	.....	s.	.....	.....	5	.....	1	.....	s;w.		5 h'r	5 h'r	h'vy	var.	clear.
S. Grecian, N. 0° 45′, W 27° 40′†	30.02	762.5	80	26.7	86	se.	.....	.....	5	.....	5 k	.....	se.		o	o	long.	nne.	
Bk. Grey Eagle, N. 18° 37′ W. 56° 11′*†	30.05	763.3	.....	.....	.....	e.	.....	.....	5	.....	5	.....	ene.		3 h'r	3 h'r	h'vy	e.	threatening.
Bk. George, N. 25° 13′, W. 70° 00′ *†	30.35	770.9	.....	.....	.....	e.	.....	.....	4	.....	2	.....	e.		sh'rs	sh'rs	r'gh	e.	fair.
Bk. Guleon, Cardiff, Eng	.....	.....	.....	.....	.....	e.	.....	.....	2	.....	.....	.....	.....		.....	.....	.....	.....	
Bk. Heinrich & Tonio, N. 30° 30′, W. 65° 32′ †	30.29	769.4	71.5	21.9	.....	w.	.....	.....	1	.....	0	.....	.....		o	o	sm'h	.....	clear.
Schr. Hattie Weston, Mayaro, Trinidad, W. I*†	30.05	763.3	80	26.7	.....	ene.	.....	.....	3	.....	1	.....	e.		½ h'r	½ h'r	long	e.	clear.
Bk. Hattie G. McFarland, N. 27° 31′, W. 87° 55′*†	30.28	769.1	76	24.4	.....	e.	.....	.....	4	.....	3	.....	e.		o	o	sm'h	e.	fine.
Bk. Horace Scudder, N. 27° 24′, W. 47° 45′*†	30.39	771.9	69	20.6	.....	nne.	.....	.....	4	.....	3	.....	.....		o	o	long	n.	clear.
Schr. Isabel Alberto, New York, N. Y †	30.50	774.7	.....	.....	.....	nw.	.....	.....	1	.....	0	.....	.....		o	o	.....	.....	clear.
S. S. J. M. Wilson, Brazos, Santiago, Texas*†	30.12	765.0	33	0.6	.....	nnw.	.....	.....	5	.....	10	.....	nw.		o	o	.....	.....	cloudy.
Bk. Johanne, N. 34° 06′, W. 71° 15′ *†	30.30	769.6	63	17.2	.....	ne.	.....	.....	5	.....	10	.....	var.		3 h'r	3 h'r	mod	var.	cloudy.
Schr. John L. Thomas, Vivorilla Cays, C. A*†	30.08	764.0	.....	.....	.....	ene.	.....	.....	5	.....	2	.....	ene.		¾ h'r	¾ h'r	.....	.....	fine.
Bg. L. & W. Armstrong, N. 22° 13′ W. 59° 50′*†	30.30	769.6	.....	.....	.....	e.	.....	.....	5	.....	1	.....	e.		o	o	mod.	ese.	
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3	.....	.....	.....	ese.	.....	.....	1	.....	3	.....	e.		o	o	.....	.....	fine.
Bk. Mary A. Troop, King Roads, Eng*†	30.00	762.0	.....	.....	.....	e.	.....	.....	3	.....	5	.....	ese.		o	o	.....	.....	fair.
Schr. Minnie A. Bonsall, Mayport, Fla†	30.35	770.9	71	21.7	.....	calm	.....	.....	0	.....	.....	.....	calm		o	o	.....	.....	fair.
Bk. Myrtle, St. Thomas, W. I	.....	.....	.....	.....	.....	ene.	.....	.....	3	.....	1	.....	ene.		sh'rs	sh'rs	.....	.....	fair.
S. M. P. Grace. N. 10° 01′, W. 30° 18′ *	29.96	761.0	77	25.0	.....	ne.	.....	.....	0	.....	5	.....	ne.		light	light	r'gh	ne.	snowing.
Bkt. Norena, Matanzas, Cuba, W. I*†	30.25	768.3	.....	.....	.....	ese.	.....	.....	1	.....	0	.....	.....		o	o	.....	.....	fine.
Schr. Ocean Traveler, Santa Cruz Island, W. I†	30.13	765.3	.....	.....	.....	ene.	.....	.....	0	.....	5	.....	.....		.....	.....	.....	.....	fair.
Bk. Ottawa, Torrevieja Road, Spain*	30.01	762.2	62	16.7	.....	calm	.....	.....	0	.....	0	.....	.....		o	o	.....	.....	clear.
S. S. Raleigh, off Montauk Light, Long Island, N. Y ..	.....	.....	22	— 5.6	.....	nnw.	.....	.....	3	.....	0	.....	.....		o	o	sm'h	.....	clear.
Bk. Reindeer, N. 14° 05′, W. 61° 12′ *..	30.00	763.5	.....	.....	.....	ene.	.....	.....	6	.....	.....	.....	ene.		.....	.....	.....	.....	squally.
S. Rudolph, N. 38° 12′, W. 33° 40′*	29.66	753.4	57.8	14.3	.....	w.	.....	.....	5	.....	10	.....	w.		5 h'r	5 h'r	high	wnw.	rainy.
Bg. Saga, N. 45° 14′, W. 29° 45′	.....	.....	47	8.3	.....	wnw.	.....	.....	10	.....	5	.....	wnw.		18 h'r	18 h'r	10	nw.	fair.
Bk. Sunbeam, N. 38° 02′, W. 12° 06′	30.03	762 7	58	14.4	76	wnw.	.....	.....	8	.....	6	.....	wnw.		5 h'r	5 h'r	r'gh	wsw.	cloudy.
Bk. Uska, N. 51° 00′, W. 80 42′*†	29.45	748.0	.....	.....	.....	sse.	.....	.....	6	.....	6	.....	sse.		.....	.....	cross	sse.	drizzling.
S. Vincenzo Accame, N. 36° 48′ W. 73° 32′†	30.51	774.9	53.6	12	.....	ne.	.....	.....	5	.....	8	.....	nne.		3¼ h'r	3¼ h'r	sm'h	nne.	fair.
Schr. Wm. Wiler, Point a Petre, Gaudeloupe, W. I†	30.06	763.5	.....	.....	.....	e.	.....	.....	5	.....	2	.....	e.		2 h'r	2 h'r	.....	.....	fine.
S. S. Wm. Woodbury, N. 61° 47′, W. 1° 26′*	29.83	757.7	47	8.3	.....	s.	.....	.....	9	.....	10	.....	s.		.....	.....	high	s	cloudy.
District No. 1.—South Atlantic.																	
H. M. S. Starling, S. 5° 46′, W. 8° 42′	29.97	761.2	79	26.1	93	se.	.....	.....	3	.....	2	.....	.....		.....	.....	.....	.....	blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.99	761.7	69	20.6	79	nne.	27	12.1	.....	.....	8	.....	calm		o	o	.....	.....	fair.
U. S. S. Galena, Montevideo, Uruguay*	29.98	761.5	69	20.6	84	n.	.....	.....	4	.....	5	.....	.....		.....	.....	sm'h	.....	fair.
S. S. Grecian, S. 13° 32′, W. 34° 50′*	30.02	762.5	82	27.8	78	ese.	.....	.....	2	.....	1	.....	ese.		o	o	sm'h	.....	clear.
S. S. Hevelius, Buenos Ayres, La Plata†	30.14	765.5	74	23.3	.....	nne.	.....	.....	0	.....	5?	.....	w.		o	o	.....	.....	clear.?
S. S. Ptolemy, S. 19° 50′. W. 39° 00′	30.05	763.3	83	28.3	70	nne.	.....	.....	6	c	6 k	wnw.	wnw.		0.10	2.5	3	nne.	d. clouds.
S. S. Auckland, S. 13° 40′, W. 20° 44′	30.08	764 0	78	25.6	73	e.	.....	.....	3	.....	2	.....	.....		.....	.....	.....	.....	blue sky.
S. S. City of Agra, S. 0° 24′, W. 34° 12′	29.98	761.5	82	27.8	87	ene.	.....	.....	4	.....	10	.....	.....		.....	.....	.....	.....	d. clouds.
S. S. Caldew, S. 27° 59′, E. 8° 21′	30.11	764.8	70	21.1	82	se.	.....	.....	5	.....	8	.....	.....		.....	.....	.....	.....	d. clouds.
S. S. May Hulse, S. 46° 29′, W. 58° 04′	29.76	755.9	54	12.2	96	wnw.	.....	.....	2	.....	.....	.....	.....		.....	.....	.....	.....	foggy.
S. S. Ambrose, Para, Brazil†	30.05	763.3	79	26.1	.....	var.	.....	.....	1–2	.....	2	.....	ne.		4 h'r	4 h'r	.....	.....	fine.
Bg. Annie R. Storer, S. 13° 40′, W. 35° 35′*†	30.27	768.8	.....	.....	.....	ene.	.....	.....	4	.....	1	.....	ene.		o	o	sm'h	ne	fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2—South Atlantic.—Continued.																		
Bk. Edmund Phiney, S. 43° 39′, W. 57° 05′ †..	29.87	758.7	58	14.4	.....	w.	.....	.....	2	.....	10	.....	sw.	2 h'r	2 h'r	mod.	n.	foggy.
Bk. E. L. Pettingill, S. 40° 24′, W. 39° 35′*†	30.30	769.6	58	14.4	.....	nnw.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	sw.	
S. E. B. Sutton, S. 5° 20′, W. 31° 00′†	30.03	762.7	82.5	28.1	75	ese.	.....	.....	4	.....	2	.....	.....	0	0	sm'h	ese.	clear.
S. Geo. Stetson, S. 47° —′ W. 55° —′ *†	29.28	743.7	51	10.6	86	ssw.	.....	.....	3	.....	2?	.....	sw.	0	0	sm'h	wsw.	cloudy.?
Bkt. Josephine, S. 35° 14′, E. 7° 36′†	30.17	766.3	70	21.1	57	s.	.....	.....	4	.....	2	.....	.....	0	0	sm'h	.....	fair.
S. Titan, S. 17° 16′, W. 37° 28′*†	30.10	764.5	81	27.2	91	ene.	.....	.....	3	.....	1	.....	ene.	6 h'r	6 h'r	sm'h	ene.	fine.
Bk. Wandering Jew, Montevideo, Uruguay †	30.04	763.0	67	19.4	.....	n.	.....	.....	6	.....	4	.....	n.	0	0	.....	.....	fair.
S. Sacramento, S. 42° 15′, W. 00° 20′ *†	30.14	765.5	57	13.9	?	wnw.	.....	.....	6	.....	3	.....	sw.	12 h'r	12 h'r	mod.	w.	fine.
District No 3—South Pacific.																		
S. S. Arabic, N. 34° 29′, E. 140° 20′*†	30.25	768.3	48	8.9	78	nne.	.....	.....	3	.....	5	.....	nne.	sh'rs	sh'rs	mod	ne.	fair.
S. S. Belgic, Hong Kong, China*†	30.07	763.8	58	14.4	76	w.	.....	.....	2	.....	10	.....	.....	0	0	sm'h	.....	overcast.
S. S. Gaelic, N. 35° 24′, E. 141° 21′	30.29	769.4	46	7.8	92	ne.	.....	.....	4	.....	8	.....	ene.	0	0	.....	ne.	cloudy.
S. S. Oceanic, N. 34° 14′, W. 159° 05′ *	30.35	770.9	61	16.1	94	e.	.....	.....	3	.....	7	.....	e.	.....	.....	light	ese.	cloudy.
S. S Oregon, Portland, Oregon †	30.15	765.8	17	— 8.3	100	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Mississippi, Seattle, Wash. Ter†	30.40	772.1	20	— 6.7	84	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Willamette, Seattle, Wash. Ter†	30.40	772.1	.....	.....	.....	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Ancon, N. 35° 14′, W. 120° 55′†	30.00	762.0	42	5.6	83	e.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. City of Chester, San Francisco, Cal*†	30.04	763.0	39	3.9	73	se.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....	cloudy.
S. S. Dakota, Tacoma, Wash. Ter*†	30.35	770.9	22	— 5.6	95	e.	.....	.....	2	.....	2	.....	ne.	snow	snow	sm'h	nw.	clear.
S. S. State of California, San Francisco, Cal†	30.06	763.5	38	3.3	81	se.	.....	.....	3	.....	7	.....	se.	.....	.....	.....	.....	cloudy.
S. S. City of Pekin, N. 29° 56′, E. 128° 24′†	30.21	767.3	53	11.7	80	ene.	.....	.....	2	.....	10	.....	e.	.....	.....	mod.	ne.	cloudy.
S. S. City of Tokio, N. 30° 00′, W. 167° 40′ †.	30.07	763.8	66	18.9	89	ese.	.....	.....	5	.....	10	.....	ese.	4 h'r	4 h'r	mod.	se.	hazy.
S. S. City of Rio de Janeiro Panama, Panama	.....	.....	80	26.7	74	n.	.....	.....	2	.....	1	.....	n.	0	0	light	n.	fine.
S. S. Colima, N. 23° 02′ W. 107° 56′ †	29.96	761.0	67	19.4	100	s.	.....	.....	3	.....	0	.....	.....	0	0	small	s.	clear.
S. S. Grenada, San Jose, Gautemala †	29.86	758.4	75	23.9	81	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	clear.
H. M. S. Curacoa, Yokohama, Japan	30.19	766.8	44.5	6.9	76	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky
H. M. S. Mutine, N. 21° 16′, W. 157° 52′	29.97	761.2	73	22.8	.....	ene.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	overcast.
U. S. Naval Hospital, Yokohama, Japan*	30.15	765.8	39	3.9	73	calm	.....	.....	0	.....	8	.....	sw.	0	0	.....	.....	cloudy.
U. S. S Independence, Mare Island, Cal	30.08	764.0	36	2.2	80	w.	.....	.....	1	.....	5	.....	.....	0	0	.....	.....	fair.
U. S. S. Lackawanna, Honolulu, Sandwhich. Islands*	29.99	761.7	74	23.3	68	ne.	.....	.....	3	.....	2	.....	ne.	.....	.....	.....	.....	fair.
U. S. S. Monocacy, Amoy, China	30.15	765.8	60	15.6	76	ne.	.....	.....	2	.....	10	.....	ne.	.....	.....	.....	.....	cloudy.
U. S. S. Palos, Tientsin, China*	30.52	775.2	22	—5.6	100	ne.	.....	.....	2	.....	10	.....	calm	.....	.....	.....	.....	cloudy.
U. S. S. Ranger, N. 33° 05′, W. 117° 34′	30.08	764.0	50	10.0	79	nw.	.....	.....	4	.....	10	.....	wnw.	0.06	1.5	mod.	wnw.	rainy.
U. S. S. Richmond, Hong Kong, China*	30.09	764.3	58	14.4	88	w.	.....	.....	2	.....	10	.....	w.	0	0	.....	.....	cloudy.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.95	760.7	73	22.8	76	e.	.....	.....	2	.....	2	.....	ne.	.....	.....	sm'h	.....	fair.
Bk. Childwall, N. 2° 10′, W 128° 30′ *	29.76	755.9	76	24.4	.....	e.	.....	.....	3	.....	7	.....	e.	0	0	light	ese.	fine.
S. St. Francis, N. 34° 13′, W. 125° 22′ †	30.31	769.9	46	7.8	.....	w.	.....	.....	3	.....	7	.....	nw.	½h'r	½h'r	mod.	nw.	squally.
Tamega, Macao, China	30.27	768.9	50.9	10.5	86	nnw.	.....	.....	6	.....	10	.....	.....	2 h'r	2 h'r	.....	.....	overcast.
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.90	759.4	65	18.3	100	se.	.....	.....	1	.....	10	.....	.....	.....	.....	3	.....	foggy.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	30.16	766.1	68.3	20.2	79	e.	.....	.....	5	.....	10	.....	.....	.....	.....	2	e.	showery.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.83	757.7	62	16.7	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	.....	d. clouds
H. M. S. Rocket, S. 41° 30′, W. 72° 50′	30.08	764.0	58	14.4	94	wsw.	.....	.....	3	.....	3	.....	.....	.....	.....	sm'h	.....	d. clouds
H. M. S. Swiftsure, S. 1° 30′, W. 91° 20′	29.87	758.7	76	24.4	100	calm	.....	.....	0	.....	4	.....	s.	.....	.....	.....	.....	d. clouds.
H. M. S. Sylvia, Port Tamar, Patagonia	29.80	756.9	49.2	9.6	93	wnw.	.....	.....	3	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
U. S. S. Essex, Callao, Peru	29.83	757.7	67	19.4	89	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	misty.
U. S. S. Iroquois, S. 23° 20′, W. 91° 33′	30.05	763.3	69	20.6	75	ese.	.....	.....	6	.....	10	.....	ese.	.....	.....	mod.	ese.	cloudy.
U. S. S. Onward. Callao, Peru*†	29.98	761.5	66	18.9	94	sse.	.....	.....	1	.....	10	.....	n.	.....	.....	.....	.....	misty.
U. S. S. Pensacola, Callao, Peru *	29.78	756.4	66	18.9	100	sse.	.....	.....	4	.....	10	.....	.....	0	0	sm'h	.....	foggy.
British Merchant, S. 3° 05′, W. 126° 58′	29.77	756.1	77	25.0	86	ese.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	.....	d. clouds
Bk Gronsvaer, Auckland, N. Z †	30.06	763.5	68.1	20.1	.....	se.	.....	.....	6	.....	10	.....	se.	14 h'r	14 h'r	.....	.....	raining.
S. S. Australia, S. 34° 20′, E. 169° 13′*	29.53	750.0	70	21.1	100	ne.	.....	.....	6	.....	10	.....	.....	6 h'r	6 h'r	cross	sw.	raining.
S. S. City of Sydney, Sydney, N. S. W †	30.05	763.3	68	20.0	74	se.	.....	.....	5	.....	10	.....	se.	0	0	.....	.....	cloudy.
S. S. Zealandia, S. 9° 27′, W. 169° 33′	29.87	758.7	83	28.3	91	ene.	.....	.....	4	.....	.....	.....	ene.	.....	.....	.....	.....	dull.
H. M. S. Gannet, S. 30° 55′, W. 71° 50′	29.85	758.2	58	14.4	88	se.	.....	.....	2	.....	10	.....	.....	.....	.....	3	ssw.	misty.
Bk. Warden Law, S. 20° 43′ W. 74° 08′*	30.12	765.0	.....	.....	.....	sse.	.....	.....	2	.....	8	.....	sse.	0	0	sm'h	sse.	covered.
S. Sovereign of the Seas, S. 41° 04′, W. 116° 38′ *†	30.10	764.5	58	14.4	94	wsw.	.....	.....	6	.....	10	.....	wsw.	1 h'r	1 h'r	h'vy	sw.	squally.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, N. 3° 05′, E. 58° 52′	29.84	757.9	81	27.2	.....	n.	.....	.....	2–3	.....	4	n.	.....	.....	.....	3	n.	d. clouds.
H. M. S. Eclipse, N. 22° 11′, E. 63° 59′	29.91	759.7	72	22.2	.....	nnw.	.....	.....	1	.....	0	.....	.....	.....	.....	1	nne.	blue sky.
H. M. S. Euryalus, Trincomalee, Ceylon	29.85	758.2	80	26.7	82	ne.	.....	.....	3	.....	5	ne.	.....	.....	.....	.....	.....	d. clouds
H. M. S. Himalaya, N. 5° 38′, E. 82° 07′	29.82	757.4	80	26.7	91	ene.	.....	.....	4–6	.....	7	.....	.....	.....	.....	3	ne.	showery.
H M. S. Woodlark, Bushire, Persia	30.14	765.5	64.5	18.1	83	nw.	.....	.....	4–5	.....	4	nw.	.....	.....	.....	2	nw.	d. clouds
S. S. Scotia, N. 5° 43′, E. 9° 16′	29.84	757.9	81	27.2	70	ene.	.....	.....	5	.....	5	.....	.....	.....	.....	.....	.....	d. clouds
Bk. Essex, S. 30° 20′, E. 33° 55′ *†	29.98	761.5	85	29.4	.....	sw.	.....	.....	4	.....	2	.....	sw.	0	0	mod.	sw.	fine.

International Chart I. February 6, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.

W.B. Hazen Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 7, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.15	765.7	60.1	15.6	77	n.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Malaterre.
Algiers	.....	.....	30.13	765.4	60.8	16.0	69	wsw.	.....	.....	5	.....	6	.....	.....	0	0	cloudy	Thève.
La Calle	.....	.....	30.02	762.5	61.9	16.6	55	w.	.....	.....	2	.....	2	.....	.....	0.059	1.5	clear	Fonfrède.
Tunis	.....	.....	30.02	762.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.19	766.7	61.5	16.4	49	w.	.....	.....	2	.....	2	.....	.....	0	0	fair	Pérès.
Tebessa	.....	.....	30.09	764.3	51.4	10.8	72	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dognon.
Geriville	.....	.....	.....	.....	50.7	10.4	39	nnw.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Forfert.
Laghouat	.....	.....	30.16	766.0	57.9	14.4	38	ene.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.09	764.2	68.0	20.0	29	nw.	.....	.....	3	.....	4	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.59	751.6	29.68	753.9	74.9	23.8	50	ese.	7	3.1	.....	.....	2	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.58	751.3	30.16	766.0	33.1	0.6	85	ne.	.....	.....	2	.....	10	.....	.....	0.016	0.4	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	29.41	746.9	30.21	767.4	32.7	0.4	89	ne.	7.4	3.3	.....	.....	10	.....	.....	0.059	1.5	.....	Dr. Wierzbiski.
Eperies	29.24	742.7	30.16	766.1	34.9	1.6	80	calm	.....	.....	0	.....	10	.....	.....	0.120	3.2	.....	Julius Mikolik.
Gratz	28.87	733.3	30.18	766.5	36.0	2.2	62	sw.	.....	.....	1	.....	10	.....	.....	0.264	6.7	.....	Andreas Rospini.
Hermannstadt	28.65	727.7	30.15	765.9	32.5	0.3	82	e.	.....	.....	1	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.76	730.5	30.17	766.4	31.3	— 0.4	83	ene.	.....	.....	2	.....	1	.....	.....	0	0	clear	The Staff.
Lemberg	29.24	742.6	30.28	769.1	32.2	0.1	81	se.	.....	.....	1	.....	10	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.03	676.4	30.19	766.7	26.6	— 3.0	.....	calm	.....	.....	0	.....	10	.....	.....	0.059	1.5	.....	Dr. V. von Szontagh.
Pola	29.92	760.0	30.04	762.9	44.6	7.0	58	e.	.....	.....	1	.....	3	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.64	752.9	30.10	764.6	40.3	4.6	53	se.	.....	.....	2	.....	4	.....	.....	0	0	.....	Joseph Midlinszay, S. J.
Szegedin	29.85	758.1	30.14	765.6	33.4	0.8	100	calm	.....	.....	0	.....	10	.....	.....	0.118	3.0	.....	Karl Stanecl.
Trieste	29.98	761.4	30.08	763.9	41.4	5.2	45	ne.	.....	.....	2	.....	3	.....	.....	0	0	.....	Royal Academy.
Vienna	29.45	748.1	30.21	767.3	32.2	0.1	69	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.65	753.1	29.75	755.6	39.5	4.2	83	se.	43	19.2	.....	.....	10	.....	.....	0.105	2.7	raining	W. Boswell
Armagh, Observatory	29.34	745.2	29.57	751.1	44.0	6.7	67	s.	22	9.8	.....	.....	0	.....	.....	.....	.....	squally	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.76	755.9	47.2	8.4	73	wsw.	13	5.8	.....	.....	3	.....	.....	.....	.....	blue sky	John Hartnup.
Bolton, Sharples	29.24	742.7	29.77	756.1	44.6	7.0	80	ssw.	6	2.7	.....	.....	7	.....	.....	.....	.....	misty	Thomas Mackereth.
Bradford, Yorkshire	29.40	746.7	29.80	756.9	38.7	3.7	91	se.	.....	.....	2	.....	10	.....	.....	0.26	6.6	snowing	McLandsborough&Preston.
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	81.6	27.2	70	ne.	.....	.....	4	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C
Cardington	29.78	756 4	29.88	758.9	41.0	5.0	91	se.	.....	.....	0.6	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.75	755.6	29.89	759.2	38.3	3.5	97	s.	.....	.....	1	.....	10	.....	.....	blank	blank	misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.57	751.1	29.80	756.9	49.9	9.9	74	s.	.....	.....	3	.....	2	.....	.....	.....	.....	blue sky	The Staff.
Fort Napier, Natal	27.54	695 5	29.77	756.1	82.0	27.8	50	e.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	Corpl. F. Milner, A. H. C.
Freetown	29.65	753.1	29.88	758.9	86.0	30.0	91	w.	.....	.....	●1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	29.31	744.5	29.35	745 5	45	7.2	84	s.	.....	.....	5	.....	0	.....	.....	0.36	9.1	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	30.18	766.6	30.24	768.1	57.5	14.2	96	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.41	747.0	29.61	752.1	45.2	7.3	66	s.	.....	.....	8	.....	3	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.70	754.4	29.88	758.9	40.0	4.4	92	ese.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	The Staff.
Guernsey	29.58	751.3	29.87	758.7	52	11.1	75	sw.	.....	.....	1	.....	4	.....	.....	blank	blank	d. clouds	A. Collenette, F. M. S
Kew, Observatory	29.84	757.9	29.88	758.0	41.7	5.4	90	se.	6	2.7	.....	.....	10	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.59	751.6	29.85	758.2	41.8	5.4	91	s.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	30.00	762.0	30.07	763.8	62.0	16.7	92	nw.	.....	.....	2	.....	7	.....	.....	0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.18	766.6	30.22	767.6	74.2	23.4	85	se.	.....	.....	2	.....	5	.....	.....	blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.28	743.7	29.81	757.2	45.8	7.7	90	sse.	.....	.....	4	.....	5	.....	.....	.....	.....	d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.62	752.3	29.84	757.9	45.0	7.2	90	sse.	.....	.....	2	.....	2	.....	.....	.....	.....	misty	The Staff.
Plymouth	29.74	755 4	29.81	757.2	48.7	9.3	83	sse.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	John Merrifield.
Sandwick Manse, Orkneys	29.47	748.5	29.57	751.1	39.8	4.3	87	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.04	763.0	30.11	764.8	40.0	7.8	69	ene.	.....	.....	2	.....	9	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	29.55	750.6	29.84	757.9	40.9	4.9	90	sw.	.....	.....	2	.....	10	.....	.....	0.43	10.9	overcast	W. F. Cooper.
Silloth Rectory	29.66	753.4	29.68	753.9	46.5	8.1	77	sw.	.....	.....	3	.....	0	.....	.....	0.015	0.4	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.70	756.7	43.9	6.6	79	s.	18	8.0	.....	.....	5	.....	.....	.....	.....	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.65	753.1	29.86	758.4	47.0	8.3	90	se.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	29.73	755.1	29.78	756.4	54	12 2	73	s.	.....	.....	6	.....	0	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.43	747.5	29.46	748.3	48.5	9.2	71	se.	39	17.4	.....	.....	7	.....	.....	.....	.....	squally	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.71	754.6	30.10	764.5	58.6	14.8	72	nw.	12.4	5.5	.....	0	7 n;k	.....	nw.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	5	—15.0	.....	e.	1	0.4	.....	.....	10	.....	.....	0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.82	757.4	29.87	758.7	22	— 5.0	97	s.	14	6.3	.....	.....	10 n	.....	calm	0.080	2.0	light snow	H. J. Cundall, C. E.
Chatham, N. B*	29.76	755.9	29.83	757.7	9	—12.8	100	calm	0	0	.....	.....	10 n	.....	calm	0.01	0.3	light snow	G. A. Blair.
Cornwall	29.27	743.4	30.48	774.2	21.0	— 6.1	97	ne.	.....	.....	1	.....	10 n	.....	.....	0.180	4.6	overcast	Jas. Smith, M. A.
Dalhousie	29.70	754.4	29.75	755.6	10.6	—12.2	.....	e.	.....	.....	3	.....	10 n	.....	.....	.....	.....	snowing	H. A. Johnson.
Father Point, Quebec*	29.60	751.8	29.62	752.3	14	—10.0	91	sw.	25	11.2	.....	.....	10 n	.....	calm	.....	.....	light snow	J. McWilliams.
Fort Garry, Manitoba*	29.04	737 6	30.02	762.5	—21	—29.4	100	w.	8	3.6	0	0	0	.....	.....	0	0	clear	James Stewart
Fredericton	29.70	754.4	29.77	756.1	17.0	— 8.3	100	e.	1	0.4	.....	.....	10 n	.....	.....	0.110	2.8	snowing	Prof. Harrison, L. L. D.
Granton	28.59	726 2	29.76	755.9	15.5	— 9.2	91	nw.	9	4.0	.....	.....	10 n	.....	.....	0.300	7.6	snowing	Jas. Grant.
Halifax, N. S*	29.79	756.7	29.93	760.2	28	— 2.2	96	s.	9	4.0	.....	.....	10 n	.....	.....	0.100	4.1	heavy snow	A. Allison.
Hamilton	29.37	746 0	29.80	756.9	22.2	— 5.4	89	sw.	.....	.....	1	10 cs	0	sw.	.....	.....	.....	snowing	Geo. Dickson, B. A.
Kingston, Ontario*	29.17	740.9	29.52	749.8	21	— 6.1	96	ne.	4	1.8	.....	.....	10 s	.....	sw.	0.12	3.0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.31	744.5	29.53	750.0	20	— 6.7	96	se.	8	3.6	.....	.....	10 n	.....	.....	0.14	3.6	light snow	C. H. McLeod, C. E.
Ottawa	29.28	743.7	29.54	750.3	17.3	— 8.2	92	ne.	.....	.....	1	.....	10 s	.....	.....	0.40	10.2	snowing	A. McGill, M. A.
Parry Sound, Ontario*	28.93	734.8	29.67	753.6	15	— 9.4	96	calm	0	0	.....	.....	10 n	.....	.....	0.40	10.2	light snow	Rev. R. Mosley.
Peterboro	29.89	759.2	30.71	780.0	19.6	— 6.9	85	w.	.....	.....	3	.....	10 n	.....	.....	0.30	7.6	snowing	J. Dixon, B. A.
Port Dover, Ontario	28.98	736.1	29.71	754.6	19	— 7.2	100	w.	4	1.8	.....	.....	10 n	.....	.....	0.40	10.2	threatening	H. Morgan.
Port Stanley, Ontario	29.09	738.9	29.78	756.4	18	— 7.8	91	w.	12	5.4	.....	.....	10 n	.....	W.	0.25	6.3	light snow	M. Payne.
Quebec, Quebec*	29.34	745.2	29.68	753.9	13	—10.6	100	calm	.....	.....	0	.....	fg	.....	.....	0.15	3.8	heavy snow	Capt. Ashe, R. N
Rockliffe, Ontario*	29.13	739.9	29.62	752.3	11	—11.7	91	calm	0	0	.....	.....	10 n	.....	.....	0.08	2.0	light snow	W. H. McIntyre.
Saugeen, Ontario*	28.96	735.6	29.71	754.6	21	— 6.1	91	n.	24	10.7	.....	.....	10 s	.....	.....	0.47	11.9	cloudy	
St. Andrews, N. B	29.71	754.6	29.76	755.9	24	— 4.4	86	calm	0	0	.....	.....	10 n	.....	.....	0.20	5.1	light snow	
St. John, N. B	29.58	751.3	29.75	755.0	28	— 2.2	100	w.	15	6.7	.....	.....	10 n	.....	.....	0.505	12.8	snowing	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.04	763.0	17.6	— 8.0	.....	w.	.....	.....	4	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	28.39	721.1	29.76	755.9	14.3	— 9.8	95	nw.	7	3.1	.....	.....	10 s	.....	.....	0.400	10.2	snowing	C. J. Macgregor, M A.
Sydney, C. B*	29.97	761.2	30.03	762.7	17	— 8.3	91	w.	4	1.8	.....	.....	10 n	.....	.....	0.01	0.3	light snow	T. C. Hill, C. E.
Toronto, Ontario*	29.28	743.7	29.68	753.9	19	— 7.2	91	nw.	10	4.5	.....	.....	10 n	.....	.....	0.40	10.2	light snow	Magnetic Observatory.
Windsor	29.76	755.9	29.80	758.4	20.6	— 3.3	.....	s.	7	3.1	.....	.....	10 n	.....	.....	.....	.....	snowing	Prof. W. H. Butler, M. A
Woodstock	28.66	728.0	29.79	756.7	17.2	— 8.2	94	calm	0	0	.....	.....	10 s	.....	.....	0.40	10.3	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.71	754.6	29.78	756.4	29	— 1.7	88	se.	8	3.6	.....	.....	10 n	.....	.....	0.32	8.1	light snow	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer: Corrected for instrumental error and for temperature. Inch.	Barometer: Corrected for instrumental error and for temperature. Mill.	Barometer: Reduced to sea-level. Inch.	Barometer: Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind: Direction. From.	Wind: Velocity. Miles p. hr.	Wind: Velocity. Mtrs. p. sec	Wind: Force. 0–10	Clouds: Amount and kind. Upper. 0–10	Clouds: Amount and kind. Lower. 0–10	Clouds: Direction. Upper. From.	Clouds: Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	29.86	758.4	29.89	759.2	67.0	19.4	83	wsw.	10.2	4.6	.....	0	2 s	.....	.....	0	0	hazy	**John Duthie.**
Springbok Fontein	27.85	707.4	.....	.....	89	31.7	41	ese.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**J. T. Eustace.**
Chinese *(Sub-series).*																			
Sung-shu-chwang	24.45	620.9	.....	.....	24.8	— 4	.....	sse.	.....	.....	1	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.35	771.0	30.47	773.8	25.0	— 3.9	95	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	30.44	773.2	30.47	773.8	33.4	0.8	92	n.	1.3	0.6	.....	.....	0	.....	.....	0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.36	771.2	30.41	772.4	30.9	— 0.6	79	ese.	31	14	.....	.....	10	.....	.....	.....	.....	snowing ...	**Oversergent Fischer.**
Fanoe	30.31	769.9	30.33	770.4	31.1	— 0.5	88	se.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	29.44	747.8	29.48	748.9	— 8.9	—22.7	100	nne.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	29.35	745.6	29.37	746.1	—12.1	—24.5	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.58	751.4	29.63	752.6	—22.0	—30.0	.....	calm	.....	.....	0	.....	3	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.56	725.3	28.60	726.4	36.3	2.4	91	se.	.....	.....	6	.....	8	.....	.....	.....	.....	raining.	A. O. Thorlacius.
Thorshavn	29.41	747.1	29.45	748.0	42.1	5.6	71	se.	36	16	.....	.....	10	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Vestervig	30.31	769.8	30.40	772.1	27.7	— 2.4	77	e.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	**Loerer Oesterbol.**
Upernavik, Greenland	29.60	751.9	29.65	753.1	—14.3	—25.7	.....	calm	.....	.....	0	.....	4	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	29.49	749.0	30.15	765.8	46.8	8.2	97	calm	.....	.....	0	.....	fg	.....	.....	0	0	light fog	M. Labroue, Director.
Alençon, Normal School	29.41	747.0	29.96	761.0	40.3	4.6	97	s.	.....	.....	1	.....	fg	.....	nnw.	0	0	dense fog	M. Nicot, Director.
Arras, Engineer School	29.65	753.0	29.91	759.8	34.2	1.2	83	se.	.....	.....	3	.....	10	.....	.....	0.177	4.5	hailing	M. Fénéon, Command't.
Avignon, Normal School	29.95	760.8	30.03	762.8	45.7	7.6	75	n.	.....	.....	1	.....	5	n.	.....	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.45	747.9	30.02	762.6	39.2	4.0	90	s.	.....	.....	1	.....	10	.....	se.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.71	754.7	29.99	761.7	36.5	2.5	86	ese.	.....	.....	1	.....	10	.....	sw.	0	0	covered	M. Frère Eugène Marié
Besançon, Normal School	29.13	739.8	30.04	763.0	41.0	5	69	ne.	.....	.....	1	.....	8 kn	.....	e.	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	29.76	755.8	30.02	762.5	51.1	10.6	85	sse.	.....	.....	1	.....	10	.....	w.	0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.40	746.8	29.97	761.1	42.8	6	94	ene.	.....	.....	1	.....	n	.....	.....	0	0	.....	M. Mallet, Director.
Brest, Naval Observatory	29.65	753.2	29.89	759.3	51.8	11.0	86	sw.	.....	.....	2	.....	10	.....	sw.	0.177	4.5	.....	M. de Kermarec, Dir.
Caen, Normal School	29.74	755.4	29.82	757.3	51.8	11	73	nne.	.....	.....	1	.....	0	.....	.....	0.043	1.1	clear	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.64	752.8	29.97	761.2	43.9	6.6	82	se.	.....	.....	2	.....	8	s.	s.	0	0	¼ covered ...	M. Jadot, Director.
Charleville, Normal School	29.47	748.4	29.98	761.6	37.8	3.2	76	ese.	.....	.....	1	.....	2	.....	.....	0	0	¼ covered ...	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.64	727.4	30.03	762.8	41.0	5.0	81	ne.	.....	.....	1	.....	10	.....	.....	0	0	hazy	M. Allnard, Director.
Cluny, Normal School	29.18	741.2	30.05	763.3	43.7	6.5	70	se.	.....	.....	2	.....	10	.....	w.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.18	741.1	30.08	763.9	36.5	2.5	69	se.	.....	.....	1	.....	5 ks	se.	se.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.47	697.7	30.06	763.6	42.8	6	46	calm	.....	.....	0	0	7 n	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, du Rhone	28.91	734.3	30.04	763.1	53.1	11.7	65	sw.	.....	.....	1	.....	7	.....	sw.	0	0	.....	M. Klun, Director.
Grenoble, Normal School	29.31	744.5	30.11	764.8	41.4	5.2	71	ese.	.....	.....	1	.....	cun	.....	s.	0	0	.....	M. Ablard, Director.
Guéret	28.42	721.8	30.00	762.1	50.0	10	74	w.	.....	.....	1	.....	10	.....	w.	0	0	covered	**M. Delorme, Dir.**
Lamballe, Normal School	29.72	754.8	29.99	761.8	52.9	11.6	67	sw.	.....	.....	4	.....	10	.....	sw.	0.04	1.	covered	M. Ollitrault, Director.
Lescar, Normal School	29.44	747.7	30.00	762.0	59.0	15.0	56	w.	.....	.....	2	1 c	0	.....	.....	0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.83	757.6	29.93	760.2	53.6	12.0	83	s.	.....	.....	1	.....	10	.....	sw.	0.374	9.5	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.98	736.2	30.08	763.9	41.0	5.0	84	se.	.....	.....	1	10 cs	0	.....	.....	0	0	hazy	M. André, Director.
Mans, Normal School	29.64	752.9	29.96	761.0	42.6	5.9	94	s.	.....	.....	1	.....	0	.....	.....	0.008	0.2	clear	M. Piboën, Director.
Marseille, Observatory	29.78	756.3	30.05	763.2	54.0	12.2	74	w.	.....	.....	1	.....	10	.....	w.	0	0	.....	M. Stephan, Director.
Montlouis	24.81	630.1	29.65	753.1	41.0	5.0	41	sw.	3.8	1.7	.....	.....	6	w.	.....	0	0	.....	**M. Carré for Dr. Fines.**
Montpellier, Normal School	29.88	758.9	30.01	762.2	48.9	9.4	82	calm	.....	.....	0	.....	5	.....	ne.	0	0	.....	M. Galzin, Director.
Nancy, Normal School	29.18	741.1	29.98	761.4	37.8	3.2	63	ne.	.....	.....	1	c	0	.....	.....	0	0	.....	M. Husse, Director.
Nantes, Observatory	29.81	757.2	29.96	761.4	55.8	13.2	75	wsw.	.....	.....	0–1	c	9 n; kn	.....	wsw.	0.04	1.	.....	M. Larocque, Director.
Perpignan, Observatory	29.94	760.5	30.06	763.4	50.4	10.2	89	se.	3.8	1.7	.....	.....	5	nne.	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.15	537.3	.....	.....	29.8	— 1.2	.....	sw.	.....	.....	1	.....	5	.....	sw.	0.028	0.7	cloudy	**M. Vaussenat, Director.**
Privas, Normal School	29.00	736.5	30.10	764.6	39.2	4	90	n.	.....	.....	1	.....	10	n.	n.	0	0	covered	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.08	636.9	.....	.....	32.7	0.4	98	wnw.	.....	.....	3	.....	10	.....	.....	0	0	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.93	760.3	29.97	761.1	51.8	11.0	100	calm	.....	.....	0	.....	10	.....	sw.	0.87	22.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.73	755.1	29.95	760.6	53.2	11.8	90	se.	.....	.....	1	.....	5	.....	se.	0.004	0.1	cloudy	M. Brotier, Director.
Rodez, Normal School	27.86	707.7	30.06	763.6	44.1	6.7	94	se.	.....	.....	1	c	0	.....	.....	0	0	.....	M. Seger, Director.
Rouen, Normal School	29.89	759.1	29.93	760.3	38.1	3.4	72	se.	.....	.....	2	.....	10	se.	.....	0	0	covered	M. Moullot.
Saint Lô	.....	.....	.....	.....	51.4	10.8	67	sw.	.....	.....	1	.....	2	.....	w.	0.024	0.6	slightly cl'dy	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.81	757.2	29.98	761.4	34.2	1.2	91	se.	.....	.....	1	.....	10	.....	s.	0.004	0.1	.....	M. Renou, Director.
Toulouse, Observatory	29.36	745.7	30.08	764.1	52.9	11.8	67	sw.	.....	.....	1	.....	fg	nw.	.....	0	0	foggy	M. Baillaud, Director.
Tours	29.77	756.2	29.95	760.7	48.2	9.0	83	ene.	.....	.....	1	.....	10	.....	nne.	0.004	0.1	hazy	M. de Tastes.
Versailles, Observatory	29.47	748.6	29.97	761.1	34.9	1.6	89	s.	.....	.....	1	.....	.....	.....	.....	0.035	0.9	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.89	759.3	30.04	763.1	60.3	15.7	50	w.	2.0	0.9	.....	3 c	0	w.	.....	0	0	.....	**M. Cartier, Director.**
German.																			
Ansbach	28.69	728.8	30.22	767.6	31.3	— 0.4	74	e.	.....	.....	4	.....	9	e.	.....	0	0	.....	**Prof. Jnedt.**
Bamberg	29.28	743.6	30.12	765.1	32.0	0.0	64	se.	.....	.....	2	.....	4	.....	.....	0	0	.....	**Prof. Dr. Hoh.**
Berlin	30.13	765.3	30.28	769.2	28.8	— 1.8	70	ne.	.....	.....	2	.....	10	.....	.....	0.008	0.2	snowing	**Meteorological Institute.**
Breslau	29.71	754.6	30.24	768.2	28.8	— 1.8	94	e.	.....	.....	2	.....	10	.....	.....	0.154	3.9	snowing	Royal University Obs'y
Carlsruhe	29.67	753.6	30.15	765.7	37.4	3.0	61	ne.	.....	.....	3	.....	5	var.	.....	0	0	.....	Albert Senz.
Cassel	29.44	747.9	30.16	766.0	32.7	0.4	85	se.	.....	.....	3	.....	8	ese.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.81	757.1	30.20	767.0	35.8	2.1	62	ese.	.....	.....	2	.....	6	.....	.....	0	0	.....	**Physical Society.**
Friedrichshafen	28.61	726.8	30.10	764.6	37.0	2.8	63	ene.	.....	.....	3	.....	3	e.	.....	0.150	3.8	.....	Wilhelm, Chief Tel.
Hamburg	30.21	767.4	30.30	769.7	32.5	0.3	80	e.	.....	.....	2	.....	10	.....	.....	0	0	hazy	E. Preller.
Kiel	30.32	770.2	30.34	770.6	32.4	0.2	71	e.	.....	.....	4	.....	10	.....	.....	0	0	.....	**Prof. Dr. G. Karsten.**
Leipsic, Astron'l Obs'y	29.82	757.3	30.26	768.6	29.3	— 1.5	90	ne.	.....	.....	2	.....	10	.....	.....	0.039	1.0	.....	H. Leppig, Asst.
Magdeburg	30.07	763.8	30.27	768.9	29.8	— 1.2	86	n.	.....	.....	1	.....	10	ne.	.....	.....	.....	snowing	**Dr. Assmann.**
Memel	30.51	774.9	30.56	776.1	25.9	— 3.4	76	e.	.....	.....	4	0	5 s	.....	.....	.....	.....	.....	Issermann.
Munich	28.26	717.9	30.13	765.4	30.7	— 0.7	71	e.	.....	.....	1	.....	9	ne.	.....	0.008	0.2	.....	**Central Station.**
Neufahrwasser	30.44	773.1	30.45	773.5	30.0	— 1.1	80	e.	.....	.....	4	.....	8	.....	.....	0.004	0.1	.....	**A. Lothes.**
Neustadt, Palatinate	29.57	751.0	30.10	764.5	36.7	2.6	67	se.	.....	.....	2	.....	9	se.	.....	0	0	.....	Dicknether.
Stuttgart	29.20	741.6	30.13	765.3	35.6	2.0	62	e.	.....	.....	1	.....	5	e.	.....	0	0	.....	**Prof. Dr. Schoder.**
Wustrow	30.38	771.7	30.41	772.4	30.6	— 0.8	92	e.	.....	.....	3	.....	10	.....	.....	0	0	.....	**Profs. Brandes & Reimer.**
Greek.																			
Athens	29.60	751.9	29.99	761.7	62.1	16.7	.....	s.	.....	.....	2.0	0	6 k	.....	.....	0.386	9.8	.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.93	760.3	29.98	761.6	74.3	23.5	60	sw.	21.0	9.4	.....	.....	1	.....	.....	0	0	d. clouds	
Deesa	29.42	747.4	29.99	759.2	82.4	28.0	17	wnw.	12.0	5.4	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.85	758.2	29.89	759.2	79.5	26.4	70	nw.	17.0	7.6	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.01	711.4	29.84	757.9	87.0	30.6	28	se.	6.0	2.7	.....	.....	1	.....	w.	0	0	d. clouds	
Belgaum	27.34	694.5	29.85	758.1	83.5	28.6	30	ese.	7.0	3.1	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.20	741.5	29.97	761.2	62.6	17.0	42	calm	0	0	.....	.....	0	.....	.....	0	0	gloomy	
Roorkee	29.06	738.1	29.99	761.8	64.2	17.9	68	calm	0	0	.....	.....	5	.....	.....	0	0	.....	
Agra	29.41	747.1	30.00	762.0	66.3	19.1	34	nw.	.....	.....	.....	.....	0	.....	.....	0	0	.....	
Nagpur	28.86	733.1	29.90	759.5	83.7	28.7	30	calm	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Jubbulpore	28.59	726.2	29.96	761.0	75.3	24.1	26	ne.	6.0	2.7	.....	.....	3	w.	.....	0	0	d. clouds	
Lucknow	29.61	752.2	30.01	762.2	66.3	15.7	52	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.66	753.4	29.99	761.8	60.4	15.8	57	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.80	757.0	30.00	761.9	65.0	18.3	52	nw.	2.5	1.1	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.91	708.8	30.00	761.9	59.9	15.5	28	nw.	5.1	2.3	.....	.....	0	.....	.....	0	0	blue sky	

STATIONS.	Barometer: Corrected for instrumental error and for temperature		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Cuttack	29.86	758 4	29.94	760.5	77.2	25.1	43	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.95	760.6	29.97	761.2	68.5	20.3	32	wnw.	3.0	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.82	757.5	29.94	760.6	67.5	19.7	59	calm	2.4	1.1	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.86	758.4	29.95	760.8	66.4	19.1	61	wsw.	3.6	1.6	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.62	752.4	29.97	761.2	65.9	18.8	79	ne.	1.0	0.4	.....	10	w.	w.		0	0	d. clouds	
Jeypore	28.49	723.7	29.97	761.1	71.2	21.8	38	ssw.	2.7	1.2	.....	.....	0	.....	.....	0	0	blue sky	
Bellary	28.42	721.9	.....	.....	85.5	29.7	30	se.	6	2.7	.....	5 c	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.68	753.9	.....	.....	82.7	28.2	38	ene.	1	0 4	.....	.....	0	.....	.....	c	0	d. clouds	
ITALIAN.																			
Udine	29.69	754.0	30.11	764.7	42.1	5.6	51	se.	6.9	3.1	.....	.....	1	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.58	751.3	30.11	764.9	44.6	7.0	63	se.	3.8	1.7	.....	.....	5	ene.	.....	0	0	.....	Prof. Schiapparelli.
Padua	29.99	761.8	30.11	764.7	43.3	6.3	53	ne.	4.3	1.9	.....	.....	2	w.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.16	740.7	30.11	764.7	41.4	5.2	86	e.	0.7	0.3	.....	.....	9	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.84	757.9	30.04	762.9	47.8	8.8	53	ne.	6.9	3.1	.....	.....	4	sw.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.11	714.1	30.10	764.6	39.2	4.0	74	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.02	762.4	30.07	763.7	42.1	5.6	88	n.	4.3	1.9	.....	.....	9	.....	.....	0.071	1.8	.....	Prof. Luigi Guidi.
Florence	29.78	756.3	30.04	762.9	50.0	10.0	50	n.	.....	.....	2	.....	5	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.89	759.3	29.98	761.5	49.3	9.6	58	e.	8.7	3.9	.....	.....	10	.....	.....	0.012	0.3	.....	Prof. P. Monte.
Rome	29.82	757.5	30.00	762.0	48.7	9.3	75	n.	5.6	2.5	.....	.....	10	.....	.....	0.004	0.1	.....	Prof. P. Tachini.
Lecce	29.71	754.7	29.97	761.3	54.1	12.3	75	nne.	11.9	5.3	.....	.....	3	n.	.....	0.421	10.7	.....	Prof. C. de Giorgi.
Cosenza	29.09	738.8	29.99	761.8	54.3	12.4	77	nnw.	3.1	1.4	.....	.....	10	nw.	.....	0.071	1.8	.....	Prof. D. Conti.
Cagliari	29.84	757.8	30.03	762.8	56.8	13.8	67	nw.	.....	.....	6	.....	8	nw.	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.79	756.7	30.04	763.1	58.1	14.5	67	wnw.	9.8	4.4	.....	.....	5	nnw.	.....	0.083	2.1	.....	Prof. G. Cacciatore.
Syracuse	30.15	765.9	30.20	767.0	58.5	14.7	67	sse	6.9	3.1	.....	.....	3	wsw.	.....	0.331	8.4	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.47	748.5	30.00	762.0	56.1	13.4	58	nw.	0.7	0.3	.....	.....	8	nnw.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	21.96	557.7	.....	.....	11.3	—11.5	82	se.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
Valdobbin	21.99	558.5	.....	.....	19.6	— 6.9	64	w.	.....	.....	2	.....	2	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.29	769.5	30.32	770.3	19.1	— 7.2	90	calm	.....	.....	0	0	0	.....	.....	0.161	4.1	clear	H. Hattori.
Awomori	30.35	770.9	30.39	771.9	10.7	— 6.8	78	ese.	7.6	3.4	.....	0	0	.....	.....	0.063	1.6	clear	K. Ogawa.
Hakodate	30.44	773.2	30.45	773.5	8.0	—13.3	100	nne.	1.8	0.8	.....	1	0	.....	.....	0	0	clear	
Hamamatsu	29.90	759.4	29.93	760.1	41.9	5.5	79	e.	.....	.....	4	.....	10 n.	.....	.....	0.958	24.2	raining	
Kagoshima	30.07	763.8	30.08	764.1	37.4	2.0	88	n.	.....	.....	2	0	0	.....	.....	0.693	17.6	clear	G. Miyanonasa.
Kioto	29.82	757.5	30.01	762.2	33.1	0.6	96	nw.	2.0	0.9	.....	.....	10 n	.....	.....	0.502	15.0	snowing	M. Tojima.
Kochi	29.94	760.5	29.96	761.0	41.1	5.1	73	ne.	5.3	2.3	.....	.....	10	.....	.....	0.701	17.8	overcast	K. Kusunose.
Miasaka	30.01	762.3	30.04	763.0	38.1	3.4	98	calm	.....	.....	0	0	0	.....	.....	0.417	10.6	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	29.88	758.9	30.09	764.3	40.1	4.5	95	nne.	0.6	0.3	.....	.....	10 n	.....	.....	0.700	17.8	light rain	S. Takehayashi.
Niigata	30.15	765.8	30.19	766.8	30.7	— 0.7	78	se.	1.8	0.8	.....	.....	10cck;s	.....	.....	0.590	15.0	covered	M. Morita.
Nobiru	30.31	769.9	30.33	770.3	30.6	— 0.8	97	ne.	4.2	1.9	.....	.....	10 s	.....	.....	0.035	0.9	covered	H. Midzushina.
Numazu	30.02	762.5	30.05	763.3	35.0	1.7	90	ene.	.....	.....	6	.....	10 n	.....	.....	0.961	24.4	raining	R. Kaneda.
Osaka	30.02	762.4	30.03	762.8	32.8	0.5	100	n.	0.3	0.1	.....	.....	10 n	.....	.....	1.321	33.6	snowing	H. Omura.
Sakai	30.09	764 4.	30.10	764.7	38.8	3.8	85	e.	.....	.....	6	.....	10 n	.....	e.	0.638	16.2	raining	K. Yamawchi.
Supporo	.....	.....	.....	.....	18.0	— 7.8	68	calm	0	0	.....	.....	10	.....	.....	0.010	0.2	covered	
Tokei Obs'y, Yeddo	30.09	764.2	30.17	766.3	30.2	— 1.0	100	n.	15.1	6.7	.....	.....	10 n	.....	.....	.....	.....	snowing	The Staff.
Wakayama	29.96	760.9	30.01	762.3	33.0	0.6	96	ne.	2.3	1.0	.....	.....	10 n	.....	.....	1.951	49.6	snowing	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.63	752.6	29.81	757.2	82.2	27.9	77	e.	27.0	12.1	.....	.....	8 ks;n	.....	e.	0.25	6.3	cloudy	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	58	14.4	76	nw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	clear	H. Diaz Pena.
Guanajuato	23.70	601.9	29.92	759.9	58.3	14.6	78	calm	0	0	.....	0	1 k	.....	se.	0	0	foggy	Prof. Vicente Fernandez.
Leon	24.31	617.5	30.04	763.0	53.6	12.0	84	sse.	.....	.....	1	0	8 ck	.....	se.	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.72	754.8	29.98	761.5	62.0	16.7	83	nw.	0.9	0.4	.....	1 cs	0	.....	.....	0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.10	586.8	30.22	767.6	50.9	10.5	68	calm	0	0	.....	0	2 ks	.....	.....	0	0	fine	The Staff.
Morelia	24.26	616.3	30.19	766.9	51.1	10.6	66	s.	.....	.....	2	0	0	.....	.....	0	0	fine	M. Tena, M. D.
Pabellon	23.98	609.0	30.08	764.0	52.2	11.2	60	calm	0	0	.....	0	0	.....	.....	0	0	fine	
Puebla, Catholic Institute	23.39	594.2	30.25	768.5	46.8	8.2	82	calm	0	0	.....	3	3	.....	nne.	0	0	½ cloudy	Prof. P. Spina.
Zacatecas	22.55	572.8	30.22	767.5	53.2	11.8	54	nw.	5.9	2.6	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.02	762.5	30.02	762.5	37.0	2.8	.....	se.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	30.15	765.7	30.20	767.1	34.3	1.3	.....	se.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	
Helleveetsluis	30.00	762.1	30.00	762.1	35.1	1.7	71	e.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Utrecht	30.06	763.6	30.11	764.8	35.1	1.7	95	ese.	.....	.....	4	.....	2	.....	.....	0	0	lightly cld'y	H. van der Brink
Sub-series.																			
Batavia, Java	29.82	757 4	.....	.....	76.5	24.7	95	w.	0	0	.....	.....	7	.....	.....	5.00	127.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.20	767.0	30.26	768.6	29.1	— 1.6	76	s.	2	1	.....	.....	0	.....	.....	0	0	.....	
Brono	30.30	769.7	30.34	770.7	41.0	5.0	32	ssw.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Christiania	30.53	775.5	30.70	779 7	5.0	—15.0	87	ne.	9	4	.....	.....	9	.....	.....	0	0	.....	
Gjesvær	30.21	767.2	30.23	767.8	41.0	5.0	.....	sw.	.....	.....	8	.....	10	.....	.....	.....	.....	.....	
Lodingen	30.34	770.7	30.39	771.9	30.2	— 1.0	86	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	29.67	753.7	29.83	757.7	54.9	12.7	88	nw.	11.9	5.3	.....	.....	10	.....	.....	0.669	17.0	raining	Dr. J. A. Sampaio.
Campo Major	29.19	741.5	30.22	767.6	50.9	10.5	90	ssw.	9.4	4.2	.....	.....	10	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.20	767.0	30.29	769 3	66.4	19.1	74	wsw.	9.8	4.4	.....	.....	0	.....	.....	c	0	.....	Capt. D. A. de Ounha.
Lisbon, Observatory	29.85	758.3	30.22	767.5	56.7	13.7	96	ssw.	13.6	6.1	.....	.....	10	.....	.....	0.059	1.5	raining	The Staff.
Ponta Delgada, Azores	29.81	757.2	29.88	759.0	58.6	14.8	89	nw.	21.0	9.4	.....	.....	10	.....	.....	0.120	3.2	.....	
Saint Paul de Loando	29.71	754.5	29.91	759.6	80.6	27.0	94	sw.	1.3	0.6	.....	.....	10	.....	.....	0.079	2.0	.....	
Serra da Estrella	25.34	643.7	30.15	765.8	42.3	5.7	84	sw.	13.0	5.8	.....	.....	10	.....	.....	.....	.....	rain & fog	
RUSSIAN.																			
Akmolinski	28.96	735.6	30.14	765.6	8.4	—13.1	92	sw.	20	9	.....	.....	10 n	.....	.....	0.024	0.6	.....	Major K. Lasarew.
Archangel	30.47	774.0	30.49	774.5	10.0	—12.2	93	wsw.	4	2	.....	.....	10	.....	.....	0	0	light clouds	Capt. Sselwerstow.
Ashurada	30.29	769 4	30.20	767.0	47.5	8.6	73	nnw.	9	4	.....	0	0	.....	.....	0	0	.....	
Astrakhan	30.25	768 3	30.17	766.2	30.7	— 0.7	94	e.	2	1	.....	.....	10 n	.....	.....	0.067	1.7	.....	Capt. Wisganow.
Baku	30.19	766.9	30.15	765.7	42.1	5.6	71	n.	9	4	.....	0	0	.....	.....	0	0	.....	
Barnaul	29.59	751.6	30.13	765.4	11.5	—11.4	85	sw.	18	8	.....	.....	10	.....	.....	0.083	2.1	.....	Meteorological Obs'y.
Bielôsersk	30.16	766 1	30.68	779.3	10.8	—11.9	96	calm	0	0	.....	0	2 s	.....	.....	0	0	.....	
Dorpat	30.50	774.7	30.77	781.9	11.1	—11.6	97	ene.	2	1	.....	0	0	.....	.....	0	0	.....	Observatory.
Ekitterinburg	29.19	741.4	30.22	767.7	1.9	—16.7	86	nnw.	4	2	.....	c;ck	9 n	.....	.....	0	0	light clouds	Meteorological Obs'y.
Elisawetgrad	29.93	760.1	30.40	772.2	32.4	0.2	85	ne.	7	3	.....	.....	9 ks	.....	.....	0.012	0.3	.....	
Irkutsk	28 50	723.8	30.30	769.6	7.2	—13.8	70	se.	.....	.....	2	.....	3	.....	.....	0	0	.....	
Kasalinsk	29.79	756.6	29.97	761.1	21.6	— 5.8	70	ese.	2	1	.....	10 c	0	.....	.....	.....	.....	.....	
Kabann	30.11	764.7	30.40	772.1	18.3	— 7.6	64	nne.	13	6	.....	.....	10	.....	.....	inap.	inap.	.....	Observatory.
Kem	30.45	773.5	30.50	774.8	3.2	—16.0	81	w.	9	4	.....	0	0	.....	.....	0	0	.....	
Kertch	30.21	767.2	30.22	767.7	31.6	— 0.2	92	nw.	7	3	.....	.....	10 n	.....	.....	0	0	.....	Lagorio & Sastyrez.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
Russian.—Continued.																			
Kieff	29.76	756.0	30.45	773 3	25.5	— 3.6	87	ene.	7	3	.....	.....	10 n	.....	.....	inap.	inap.	light snow..	Observatory.
Koslov	29.91	759 7	30.49	774.4	14.2	— 9.9	93	ne.	16	7	.....	.....	10 8	.....	.....	.....	.....	snow-drift...	
Liban	30.56	776.3	30.59	776.9	24.6	— 4.1	77	e.	11	5	.....	.....	3	.....	.....	0	0	.....	E. Quaas.
Lugan	30.01	762.2	30.20	767.1	28.6	— 1.9	84	nw.	18	8	.....	.....	10	.....	.....	0.020	0.5	.....	Meteorological Obs'y.
Moscow	30.10	764.6	30.63	778.1	17.6	— 8.0	80	calm	0	0	.....	0	6 ks	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	30.28	769.1	30.35	771.0	33.4	0.8	87	calm	0	0	.....	0	4 s;n	.....	.....	0	0	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.31	769.8	30.39	772.0	—23.8	—31.0	67	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Iwanow.
Pekin, China	30.28	769 2	30.43	773.0	25.2	— 3.8	76	sw.	4	2	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.94	760.5	30.32	770.1	25.9	— 3.4	65	e.	1.1	0.5	.....	0	2 s	.....	.....	0	0	.....	
Petrozavodsk	30.39	772.0	30.61	777.5	13.3	—10.4	74	nw.	7	3	.....	4 cs	0	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.94	760.4	30.47	773.9	28.2	— 2.1	87	e.	18	8	.....	.....	10 s	.....	.....	0.051	1.3	snowing	
Poti	30.19	766.9	30.21	767.4	46.8	8.2	92	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	raining.....	
St. Petersburg	30.76	781.2	30.77	781 6	5.0	—15.0	96	nnw.	2	1	.....	0	5	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.70	703.6	30.30	769.6	31.3	— 0.4	50	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	
Semipalatinsk	29.60	751.8	30.30	769.7	13.3	—10.4	90	wnw.	4	2	.....	.....	10	.....	.....	0.004	0.1	.....	Major Lasarew.
Sevastopol	30.03	762.7	30.26	768.6	38.7	3.7	72	nne.	16	7	.....	2 cs	0	.....	.....	0	0	.....	
Staroi Bykhov	30.12	765.0	30.62	777.7	22.1	— 5.5	90	ne.	7	3	.....	.....	10	.....	.....	0.051	1.3	light snow..	
Tashkend	28.63	727.2	30.45	773.3	21.6	— 5.8	58	calm	0	0	.....	1 ck	0	.....	.....	0	0	.....	Terch, A. M.
Tiflis	28.75	730.3	30.21	767.2	45.5	7.5	35	nw.	45	20	.....	0	1 k	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.69	703.3	30.46	773.7	6.6	—14.1	77	ne.	4	2	.....	0	0	.....	.....	.....	.....	.....	
Viatka	29.78	756.4	30.47	773.9	14.0	—10.0	.....	ne.	2	1	.....	.....	3	.....	.....	0	0	.....	
Vladivostock	30.39	771.8	30.45	773.5	— 8.0	—22.2	38	n.	9	4	.....	.....	3 k	.....	.....	0	0	.....	
Warsaw	29.90	759.4	30.35	770.8	29.1	— 1.6	84	se.	13	6	.....	.....	10	.....	.....	.....	.....	light snow..	Astronomical Obs'y.
Wilna	30.13	765.3	30.58	776.8	26.8	— 2.9	81	e.	4	2	.....	.....	7	.....	.....	0	0	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.60	751.8	29.91	759 7	9.0	—12.8	86	w.	2	1	.....	.....	2	.....	.....	0.075	1.9	.....	M. O. Marks.
Scottish.																			
Monach Lt	.....	.....	29.27	743.4	44	6.7	92	s.	.....	.....	8	.....	10	.....	.....	0.2	5.	sleeting.....	J. Youngclauss.
North Unst	.....	.....	29.87	758.7	.....	.....	.....	s.	.....	.....	9	.....	10	.....	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.97	761.2	30.08	763.9	57.2	14.0	71	sw.	1.3	0.6	.....	1 c	0	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.90	760.9	30.02	762 4	62.8	17.1	60	se.	6.9	3.1	.....	3	5	w.	.....	0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.12	688.9	30.16	766.0	45.3	7.4	83	s.	10.1	4.5	.....	.....	10	.....	.....	0	0	covered.....	Domingo Martin.
Madrid, Royal Obs'y	27.95	709.9	30.24	768.0	47.3	8.5	89	sw.	12.5	5.6	.....	.....	10	.....	.....	0	0	covered.....	The Staff.
Murcia, Met. Obs'y	30.02	762.5	30.16	766.1	55.2	12.9	64	ssw.	2.7	1.2	.....	2	3	e.	.....	0	0	clouds.....	Olayo Diaz, Director.
Oviedo	29.13	740.0	30.01	762.3	51.4	10.8	90	s.	6.7	3.0	.....	10 k	2 n	nw.	nw.	0.276	7.0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.98	736.1	29.89	759.1	52.0	11.1	93	s.	29.8	13.3	.....	.....	10	.....	.....	0.402	10.2	raining.....	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.90	759.4	29.95	760.8	79.8	26.6	70	ese.	6.6	3.0	.....	.....	3 ks	.....	ene.	0	0	clear.....	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.22	767.5	30.32	770.0	58.8	14.9	80	s.	10.8	4.8	.....	0	6	.....	s.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.07	763.7	30.16	766.0	75.9	24.4	76	ne.	20.4	9.1	.....	5 c	5 k	ne.	ne.	0.386	9.8	d. clouds	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	30.57	776.5	30.61	777.5	— 2.6	—19.2	100	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	30.63	777.9	30.68	779.2	15.1	— 9.4	94	sw.	.....	.....	2	.....	6	.....	.....	0	0	.....	
Hernosand	30.63	777.9	30.68	779.2	5.7	—14.6	91	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Stockholm	30.49	774.4	30.67	778.9	27.3	— 2.6	79	e.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Wisby	30.54	775.8	30.60	777.3	27.3	— 2.6	87	ese.	.....	.....	4	.....	7	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.60	777.1	30.68	779.3	20.1	— 6.6	97	ne.	7.6	3.4	.....	.....	10	.....	.....	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	28.65	727.7	30.13	765.2	37.8	3.2	70	nw.	.....	.....	3	.....	10	.....	.....	0	0	covered.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.15	765.7	45.0	7.2	71	ene.	23	10.5	.....	.....	9	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	30.03	762.8	52.5	11.4	.....	n.	.....	.....	1	.....	10	.....	.....	0.87	22.	rainy.....	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.19	766.9	64.4	18.0	55	w.	.....	.....	1	c	8 s	.....	sw.	0.05	1.3	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred L. Kingsbury.
United States.																			
Albany, New York	29.50	749 3	29.59	751.6	36	2.2	72	s.	13	5.8	.....	.....	10 s	.....	s.	0.55	14.0	cloudy.....	J. O. Barnes.
Alpena, Michigan	29.10	739.1	29.81	757 2	15	— 9.4	83	w.	8	3.6	.....	8 cs	0	w.	.....	0.08	2.0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.02	635 5	30.12	765.0	17	— 8.3	58	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	W. C. Barnes.
Assinnaboine, Ft., Montana	27.07	687.6	30.11	764.8	—10	—23.3	61	sw.	28	12.5	.....	0	5 s	.....	sw	0	0	fair.....	B. O. Lenoir.
Atlanta, Georgia	28.86	733.0	30.08	764.0	54.0	12.2	100	se.	5	2.2	.....	.....	fg.	.....	.....	0.02	0.5	dense fog....	H. C. Smyth.
Atlantic City, New Jersey	29.71	754.6	29.72	754.9	38	3.3	100	s.	21	9.4	.....	.....	10 n	.....	.....	1.16	29.5	light rain....	Jas. M. Watson.
Augusta, Georgia	29.92	760.0	30.12	765.0	62	16.7	93	s.	4	1.8	.....	.....	10 s	.....	sw.	0.03	0.8	cloudy	John Healy.
Baltimore, Maryland	29.69	754.1	29.74	755.4	40	4.4	89	sw.	4	1.8	.....	.....	10s;fg	.....	sw.	0.72	18.3	cloudy.....	Geo W Felger.
Barnegat, New Jersey	29.69	754.1	29.71	754.6	37.4	3.0	100	sw.	28	12.5	.....	.....	10 n	.....	.....	1.03	26.2	light rain....	G. A. Hill.
Behring Id., Behring Sea	29.90	759.4	29.92	760.0	28.1	— 2.2	.....	sw.	31	13.9	.....	.....	10 n	.....	.....	0.03	0.8	cloudy.....	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.54	724.9	30.27	768 8	— 5	—20.6	81	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	A. Pritchard.
Benton, Fort, Montana	27.13	689.1	30.13	765.3	10	—12.2	61	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear.....	S. Wheaton.
Billings, Montana	26.75	679.4	.....	.....	— 5	—20.6	65	w.	20	8.9	.....	0	0	.....	.....	0	0	clear.....	T. Gibson.
Bismarck, Dakota	28.17	715.5	30.15	765.8	—12	—24.4	100	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	Cyrus Cramer.
Block Island, Rhode Island	29.66	753.4	29.69	754.1	40	4.4	89	sw.	8	3.6	.....	.....	10 n	.....	sw.	0.78	19.8	light rain....	J. T. Elker.
Boise City, Idaho	27.56	700.0	30.52	775.2	— 6	—21.1	91	n.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	B. E. Light.
Boston, Massachusetts	29.50	749.3	29.66	753.4	34.0	1.1	94	s.	3	1.3	.....	.....	10n;fg	.....	.....	0 31	7.9	light rain....	O. B. Cole.
Brownsville, Texas	29.97	761.2	30.02	762.5	48.5	9.2	96	s.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog....	M. McCarty.
Buffalo, New York	28.88	733.5	29.68	753.9	23.3	— 4.8	94	sw.	11	4.9	.....	.....	10 s	.....	sw.	0.49	12.4	cloudy	W. Finn.
Buford, Fort, Dakota	27.97	710.4	30.15	765.8	—15	—26.1	100	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	F. A. Mellen.
Burlington, Vermont	29.14	740.1	29.45	748.0	22.3	— 5.4	90	s.	5	2.2	.....	.....	1c n	.....	s.	0.20	5.1	light snow..	D. N. Farnell.
Cairo, Illinois	29.73	755.1	30.15	765.8	29.0	— 1.7	77	n.	2	0.9	.....	.....	10 s	.....	n.	1.18	30.0	cloudy	W. H. Ray.
Cape Henry, Virginia	29.92	760.0	29.94	760.5	52	11.1	100	sw.	16	7.2	.....	.....	10 n	.....	.....	0.30	7.6	light rain....	A. K. Alderson.
Cape May, New Jersey	29.72	754.9	29.74	755.4	44	6.7	93	sw.	23	10.3	.....	.....	10 s	.....	sw.	1.20	30.5	cloudy.....	W. E. Smith.
Cape Mendocino, California	29.52	749.8	30.22	767 6	35.5	1.9	72	calm	0	0	.....	0	0	.....	.....	0.03	0.8	clear.....	J. J. McLean.
Cedar Keys, Florida	30.15	765.8	30.17	766.3	68	20.0	90	se.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	F. W. Mixer.
Champaign, Illinois	29.23	742 4	30.10	764.5	10.0	—12.2	70	nw.	11	4.9	.....	0	0	.....	.....	0.08	2.0	clear.....	L. A. Welsh.
Charleston, S. Carolina	30.08	764.0	30.14	765.5	59	15.0	100	sw.	12	5.4	.....	.....	fg.	.....	.....	0	0	dense fog....	J. H. Smith.
Charlotte, N. Carolina	29.16	740.7	30.05	763.3	45.0	7.2	100	sw.	3	1.3	.....	.....	fg.	.....	.....	0.12	3.0	dense fog....	D. O'Donoghue.
Chattanooga, Tennessee	29.14	740.1	30.00	762.0	62.0	16.7	87	w.	13	5.8	.....	.....	10 n	.....	nw.	0.06	1.5	light rain....	B. L. Goulding.
Cheyenne, Wyoming	23.88	606 5	30.13	765.3	— 8.1	—22.3	33	nw.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear.....	E. McGovern.
Chicago, Illinois	29.26	743.2	30.01	762.2	9.1	—12.7	87	w.	8	3.6	.....	0	0	.....	.....	0.21	5.3	clear.....	J. Mitchell.
Chincoteague, Virginia	29.80	756.9	29.82	757.4	41	5.0	100	s.	12	5.4	.....	.....	fg.	.....	.....	0.31	7.9	dense fog....	C. F. Dickens.
Cincinnati, Ohio	29.28	743.7	29.97	761.2	35	1.7	89	w.	13	5.8	.....	.....	10 s	.....	w.	1.96	49.8	cloudy	R. B. Watkins.
Cleveland, Ohio	29.08	738.6	29.87	758.7	20.5	— 6.4	95	w.	21	9.4	.....	.....	10 n	.....	w.	0.39	9.9	light snow..	J. B. Newlin.
Coleman City, Texas	28.44	722.4	30.32	770 1	23	— 5.0	73	n.	32	14.3	.....	.....	10 s	.....	n.	0	0	cloudy.....	L. Dorman.
Columbus, Ohio	28.99	736.3	29.89	759.2	33	0.6	78	w.	22	9.8	.....	.....	10 s	.....	w.	1.29	32.8	cloudy.....	D. Cuthbertson.
Concho, Fort, Texas	28.24	717.3	30.20	768.6	23.0	— 5.0	73	n.	20	8.9	.....	.....	10 s	.....	.....	0	0	cloudy.....	J. McGlone.
Davenport, Iowa	29.39	746.5	30.09	764.3	13	—10.6	61	nw.	5	2.7	.....	0	0	.....	.....	0.05	1.3	clear.....	R. R. Martin.
Davis, Fort, Texas	25.22	640.6	30.18	765.6	34	1.1	65	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	J. Williams.
Dayton, Washington T'y	28.65	727.7	30.46	773.7	—15	—26.1	69	n.	3	1.3	.....	0	0	.....	.....	.....	.....	clear.....	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.21	640.3	30.13	765.3	5	—15.0	79	w.	4	1.8		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	29.77	756.1	29.79	756.7	43	6.1	100	sw.	34	15.2			10 n		sw.	0.43	10.9	light rain	T. S. Townsend.
Denison, Texas	29.43	747.5	30.27	768.8	23.0	— 5.0	100	n.	9	4.0			10 s			0.01	0.3	cloudy	J. W. Byram.
Denver, Colorado	24.68	626.9	30.20	767.1	— 7.5	—21.9	48	s.	7	3.1		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.26	743.2	30.23	767.8	5	—15.0	76	nw.	4	1.8		0	0			0.12	3.0	clear	F. W. Conrad.
Detroit, Michigan	29.10	739.1	29.85	758.2	18.2	— 7.7	91	w.	7	3.1			10 n			0.20	5.1	light snow	E. R. Brace.
Dodge City, Kansas	27.50	698.5	30.24	768.1	0	—17.8	100	nw.	12	5.4		0	0			trap.	trap.	clear	V. P. Temple.
Dubuque, Iowa	29.32	744.7	30.08	764.0	8.8	—12.9	45	calm	0	0		0	0			0.31	7.9	clear	J. Harvey Smith.
Duluth, Minnesota	29.20	741.7	30.02	762.5	— 4	—20 0	65	w.	5	2.2		0	3 s		w.	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.35	745.5	30.19	766.8	37.2	2.9	82	nw.	6	2.7			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.33	643.4	30.23	767.8	—30	—34.4	100	n.	5	2.2		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.65	753.1	29.72	754.9	29.0	— 1.7	94	s.	14	6.3			10n;fg		s.	0.28	7.1	heavy snow	D. C. Murphy.
Elliott, Fort, Texas	27.42	696.5	30.32	770.1	3	—16.1	26	nw.			1	0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.29	667.8	30.17	766.3	27.0	— 2.8	77	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.00	736.6	29.77	756.1	23	— 5.0	88	w	17	7.6			10 n			0.30	7.6	light snow	Peter Wood.
Escanaba, Michigan	29.17	740.9	29.89	759.2	6.5	—14.2	89	w.	6	2.7		0	2 s			0	0	clear	George Heathcote.
Fredericksburg, Texas																			Frank Halwegler.
Galveston, Texas	30.05	763.3	30.10	764.5	45	7.2	93	n.	27	12.1			10 n		n.	0.02	0.5	light rain	E. O'C. MacInerney.
Grand Haven, Michigan	29.18	741.2	29.89	759.2	20.0	— 6.7	84	nw.	7	3.1			10 n			0.59	15.0	light snow	J. E. Mueller.
Grant, Fort, Arizona	25.23	640.8	30.09	764.3	28	— 2.2	43	calm	0	0		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.04	763.0	30.06	763.5	50	10.0	100	sw.	18	8.0		3 cs	4 k		se.	0	0	fair	R. M. Crawford.
Helena, Montana	25.81	655.6	30.21	767.3	—11	—23.9	100	calm	0	0		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.32	744.7	30.37	771.4	15	— 9.4	67	n.	6	2.7		0	2 s			0	0	clear	J. P. Sherry.
Huron, Dakota	28.72	720.5	30.24	768.1	— 4.2	—20.1	65	w.	13	5.8		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.20	741.7	30.05	763.3	21	— 6.1	84	nw.	7	3.1			10 s		w.	0.37	9.4	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.07	763.8	30.10	764.5	41.0	5.0	100	n.	22	9.8			10 n			0.03	0.8	light rain	I. A. Reed.
Jacksboro, Texas	28.96	735.6	30.20	767.1	19	— 7.2	53	n.	6	2.7		0	0			0	0	clear	D. J. Carr.
Jacksonville, Florida	30.14	765.5	30.20	767.1	67	19.4	90	s.	2	0.9		3 cs	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.49	698.2	30.17	766.3	—13	—25.0	50	sw.	1	0.4		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.47	748.5	30.17	766.3	8.0	—13.3	69	w.	3	1.3		0	0			0.05	1.3	clear	F. Z. Gosewisch.
Key West, Florida	30.12	765.0	30.14	765.5	74.0	23.3	84	e.	9	4.0		0	4 ks		e.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.98	761.5	30.00	762.0	55	12.8	96	sw.	22	9.8		3 c; k	2 s	w.	sw.	0.11	2.8	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	28.86	733.0	29.94	760.5	57	13.9	86	w.	28	12.5			10 n		w.	0.08	2.0	heavy rain	J. A. Cody.
La Crosse, Wisconsin	29.22	742.2	30.06	763.5	5	—15.0	76	sw.	2	0.9		0	0			trap.	trap.	clear	S. C. Emery.
Leavenworth, Kansas	29.35	745.5	30.30	769.6	13	—10.6	61	calm	0	0		0	0			0.01	0.3	clear	A. W. Browne.
Lewiston, Idaho	29.77	756.1	30.64	778.2	— 8.0	—22.2	76	sw.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.79	756.7	30.12	765.0	35	1.7	100	nw.	5	2.2			10 s			0.05	1.3	cloudy	W. U. Simons.
Los Angeles, California	29.80	756.9	30.20	767.1	33	0.6	78	ne.	8	3.6		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.43	747.5	30.02	762.5	34	1.1	78	w.	16	7.2			10 s		w.	2.68	68.1	cloudy	L. M Dey.
Lynchburg, Virginia	29.15	740.4	29.87	758.7	41.5	5.3	88	sw.	3	1.3			10 s		sw.	0.03	0.8	cloudy	Louis Duane.
Mackinaw City, Michigan	29.14	740.1	29.84	757.9	11.0	—11.7	70	w.	6	2.7		0	0			0.10	2.5	clear	F. R. Day.
Macon, Fort, North Carolina	30.08	764.0	30.09	764.3	49.0	9.4	100	sw.	1	0.4		0	8 s		sw.	0	0	cloudy	William Daly.
Madison, Wisconsin	28.94	735.1	30.03	762.7	5	—15.0	62	w.	8	3.6		0	0			0.26	6.6	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.37	644.4	29.91	759.7	4	—15.6	50	nw.	36	16.1			10 s		nw.	0	0	cloudy	F. Burke.
McKavett, Fort, Texas	27 96	710.2	30.34	770.6	25	— 3.9	76	n.	15	6.7			10 s			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.06	738.1	29.84	757.9	7	—13.9	52	nw.	10	4.5		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.78	756.4	30.13	765.3	34	1.1	100	w.	1	0.4			10 s			1.17	29.7	cloudy	D. T. Flanery.
Milwaukee, Wisconsin	29.18	741.2	29.98	761.5	10	—12.2	80	nw.	7	3.1		0	0			0.48	12.2	clear	W. Line.
Missoula, Fort, Montana	26.90	683.2	30.33	770.4	—19	—28.3	100	nw.	3	1.3		0	0			0.01	0.3	clear	I. H. Young.
Mobile, Alabama	30.04	763.0	30.08	764.0	62	16.7	90	sw.	3	1.3		0	8ks;fg		sw.	0	0	cloudy	C. A. Read.
Montgomery, Alabama	29.82	757.4	30.06	763.5	65.4	18.6	98	sw.	4	1.8			10 ks		sw.	0.03	0.8	threatening	J. B. McLaughlin.
Moorhead, Minnesota	29.02	737.1	30.12	765.0	—16	—26.7	100	w.	5	2.2		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.74	730.0	29.81	757.2	45.0	7.2	83	w.	16	7.2			10 n		w.	2.11	53.6	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.09	586.5	29.71	754.6	15.0	— 9.4	70	sw.	80	35.8			10 n			0.10	2.5	heavy snow	S. W. Beall.
Nashville, Tennessee	29.46	748.3	30.07	763.8	41.5	5.3	88	nw.	12	5.4			10 n		nw.	2.10	53.3	light rain	L. N. Jesunofsky.
New Haven, Connecticut	29.58	751.3	29.70	754.4	31	— 0.6	100	s.	4	1.8			10n;fg			0.81	20.6	light rain	J. H. Sherman.
New London, Connecticut	29.62	752.3	29.68	753.9	33	0.6	100	calm	0	0			10 n			0.02	15.7	heavy rain	J. G. Lynch.
New Orleans, Louisiana	30.01	762.2	30.07	763.8	68.0	20.0	93	s.	4	1.8			10 s		s.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	29.63	752.6	29.68	753.9	34.0	1.1	100	se.	5	2.2			10 n			0.94	23.9	light rain	W. McGillivray.
New York, New York	29.52	749.8	29.71	754.6	35	1.7	100	sw.	3	1.3			10n;fg			1.04	26.4	light rain	J. B. Merrill.
Norfolk, Virginia	29.93	760.2	29.96	761.0	51	10.6	100	sw.	12	5.4			fg.			0.20	5.1	dense fog	Wm. Davis.
North Platte, Nebraska	27.22	691.4	30.32	770.1	— 9.4	—23.0	70	w.	8	3.6		0	0			●	0	clear	E. F. Brady.
Olympia, Washington T'y	30.35	770.9	30.39	771.9	15.0	— 9.4	67	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.05	737.9	30.32	770.1	5.4	—14 8	68	nw.	12	5.4		0	0			0.03	0.8	clear	A. Pollak.
Ooglaamie, Alaska	30.00	762.0	30.01	762.2	— 1.2	—18.4	100	se.	40	17.9			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.16	740.7	29.51	749.5	29.0	— 1.7	72	s.	4	1.8			10 n			0.13	3.3	light snow	J. G. Linsley.
Palestine, Texas	29.63	752.6	30.21	767.3	33.0	0.6	94	n.	10	4.5			10 s			0.01	0.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.07	763.8	30.10	764.5	66.0	18.9	100	s.	3	1.3			10 s		s.	0.11	2.8	cloudy	M. McGauran.
Philadelphia, Pa	29.62	752.3	29.73	755.1	40	4.4	89	sw.	0	2.7			10 n		sw.	1.24	31.5	light rain	E. M. Mattison.
Pike's Peak, Colorado	17.31	439.7	30.03	762.7	—12	—24.4	100	sw.			4		10 ks		w.	0.12	3.0	cloudy	H. Hall.
Ploche, Nevada	23.94	608.1	30.10	764.5	15	— 9.4	87	nw.	1	0.4		0	0			0.04	1.0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	28.92	734.6	29.78	756.4	38.0	3.3	89	sw.	10	4.5			10 s		sw.	1.34	34.0	cloudy	W. A. Reid.
Poplar River, Montana	27.79	703.6	30.05	763.3				nw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.08	764.0	30.09	764.3	63.0	17.2	93	se.	7	3.1		0	fg.			0	0	clear	H. B. Boyer.
Port Huron, Michigan	29.14	740.1	29.88	758.9	14.6	— 9.7	76	w.	6	2.7		0	0			0.40	10.2	clear	W. O. Bailey.
Portland, Maine	29.61	752.1	29.66	753.4	29	— 1.7	94	nw.	2	0.9			10 n			0.56	14.2	heavy snow	W. W. Eichelburger.
Portland, Oregon	30.34	770.6	30.40	772.1	14.0	—10.0	64	n.	3	1.3		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					53	11.7	100	sw.	16	7.2		2 cs	fg.			0.03	0.8	clear	F. S. Coburn.
Prescott, Arizona	24.73	628.1	30.09	764.3	14	—10.0	80	sw.	1	0.4		0	0			0.01	0.3	clear	Jas Cassidy.
Provincetown, Mass	29.62	752.3	29.65	753.1	33.5	0.8	88	s.	10	4.5			10 n		s.	0.25	6.3	light rain	P. T. Jenkins.
Punta Rassa, Florida	30.18	766.6	30.19	766.8	66.5	19.2	93	e.	8	3.6		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.95	760.7	30.32	770.1	27	— 2.8	77	nw.	0	2.7		0	0			0	0	clear	J. R. Williams.
Rochester, New York	28.87	733.3	29.58	751.3	24	— 4.4	100	w.	17	7.6			10 n			0.35	8.9	light snow	E. W. McGann
Roseburg, Oregon	29.76	755.9	30.33	770.4	15.5	— 9.2	83	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	30.21	767.3	30.29	769.4	29.4	— 1.4	88	n.	6	2.7		0	0			0.01	0.3	clear	J. A. Barwick.
St. Louis, Missouri	29.54	750.3	30.18	766.6	16.0	— 8.9	88	nw.	12	5.4		0	0			0.43	10.9	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.39	771.9	30.42	772.7	30	— 1.1	100	s.	16	7.2		0	8 s		s.	trap.	trap.	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.12	739.6	30.00	763.5	— 2.0	—18.9	83	sw.	10	4.5		1 cs	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.03	737.3	30.00	762.0	—15	—26.1	78	sw.	3	1.3		0	0			0	0	clear	O. B Dilley.
Salt Lake City, Utah	25.71	653.0	30.27	768.8	14	—10.0	66	calm	0	0		0	6 s			trap.	trap.	fair	J. Craig.
San Antonio, Texas	29.38	746.2	30.10	764.5	37.0	2.8	89	w.	2	0.9			10 s			trap.	trap.	cloudy	T. J. Kenan.
San Diego, California	30.12	765.0	30.18	766.6	40.1	4.5	76	ne.	8	3.6		0	0			0.02	0.5	clear	A. C. Dobbins.
Sandusky, Ohio	29.18	741.2	29.90	759.4	20	— 6.7	84	nw.	26	11.6			10 s			0.29	7.4	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.66	753.4	29.69	754.1	38.0	3.3	89	sw.	10	4.5			10 n		sw.	1.08	27.4	light rain	B. A. Blundon.
San Francisco, California	30.19	766.8	30.26	768.6	39	3.9	82	n.	7	3.1		0	0			0.13	3.3	clear	N. Gorom.
Santa Fé, New Mexico	23.12	587.2	30.20	767.1	18	— 7.8	61	n.	5	2.2		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.06	763.5	30.15	765.8	62	16.7	93	sw.	6	2.7		7 ck	0	sw.		0.02	0.5	fair	H. W. Ford.
Shaw, Fort, Montana	26.25	666.7	30.10	764.5	7	—13.9	58	sw.	26	11.6		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.89	759.2	30.14	765.5	30	2.2	100	n.	4	1.8			10 s		n.	0.05	1.3	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	29.03	737.3	30.34	770.6	13.5	—10.3	68	n.	8	3.6		0	0			0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.24	615.7	30.09	764.3	23.5	— 4.7	72	nw.	3	1.3		0	2 s			0	0	clear	N. D. Lane.
Sitka, Alaska	30.22	767.6	30.29	769.4	29	— 1.7	72	ne.	4	1.8		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.72	754.9	30.22	767.6	26.0	— 3.3	64	n.	6	2.7			10 s			0.15	3.8	cloudy	J. B. Campbell.
Smithville, North Carolina	30.07	763.8	30.11	764.8	56	13.3	100	w.	7	3.1			fg.			0	0	dense fog	O. Parker.

STATIONS.	Barometer: Corrected for instrumental error and for temperature.		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.37	720.6	30.50	774.7	— 9.2	—22.9	68	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Springfield, Illinois	29.43	747.5	30.16	766.1	15	— 9.4	74	nw.	5	2.2	.....	0	0	.....	.....	0.06	1.5	clear	T. B. Jennings.
Springfield, Missouri	28.71	729.2	30.22	767.6	13.0	—10.6	80	n.	8	3.6	.....	0	0	.....	.....	0.23	5.8	clear	J. H. Bryce.
Starkville, Miss.	29.60	751.8	30.10	764.5	48	8.9	93	nw.	4	1.8	.....	.....	10 n	.....	nw.	0.17	4.3	light rain	C. Dill.
Stevenson, Fort, Dakota	28.11	714.0	30.13	765.3	—14	—25.6	46	nw.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	A. Schneider.
Stockton, Fort, Texas	27.02	686.3	30.15	765.8	36	2.2	48	n	12	5.4	.....	4 ck	0	nw.	.....	0	0	fair	A. J. Warren.
Thatcher's Island, Mass.	29.54	750.3	30.60	777.2	35.0	1.7	100	sw.	15	6.7	.....	.....	10 n	.....	sw.	0.38	9.7	light rain	G. Liebmann.
Thomas, Camp, Arizona	27.35	694.7	30.18	766.6	19	— 7.2	70	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.16	740.7	29.90	759.4	22	— 5.6	88	sw.	6	2.7	.....	.....	10 n	.....	.....	0.23	5.8	light snow	A. Buell.
Tucson, Arizona	27.63	701.8	30.11	764.8	28	— 2.2	77	s.	5	2.2	.....	0	0	.....	.....	0.01	0.3	clear	J. L. Whiteside.
Umatilla, Oregon	30.28	769.1	30.66	778.7	—17	—27.2	100	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	22.1	— 5.5	73	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.86	758.4	30.12	765.0	45.9	7.7	88	nw.	6	2.7	.....	.....	10n fg	.....	.....	0.07	1.8	light rain	James Kenealy.
Visalia, California	29.86	758.4	30.24	768.1	33.4	0.8	70	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.36	618.7	30.12	765.0	—29.4	—34.1	.....	w.	1	0.4	.....	0	0	.....	.....	0.01	0.3	clear	T. M. Ambler.
Washington, D. C.	29.63	752.6	29.75	755.6	39.7	4.3	100	s.	8	3.6	.....	.....	10 s	.....	sw.	0.45	11.4	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.14	663.9	30.27	768.8	—11.5	—24.2	90	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg
Williamsport, Pa.	29.02	737.1	29.64	752.8	34	1.1	78	nw.	1	0.4	.....	.....	10 n	.....	.....	0.47	11.9	light rain	B. F. Hough.
Wilmington, N. Carolina	30.04	763.0	30.10	764.5	62	16.7	100	w.	14	6.3	.....	.....	10 s	.....	sw.	0.02	0.5	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.72	653.3	30.24	768.1	5.0	—15.0	87	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. H. Atfield.
Yuma, Arizona	29.98	761.5	30.13	765.3	35.6	2.0	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	21.98	558.3	.....	.....	53.0	11.7	69	sw.	2	0.9	.....	.....	9ks;s	.....	w.	0	0	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	72	22.2	77	calm	0	0	.....	0	0	.....	.....	0	0	clear	Robert Johnston.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	76	24.4	88	e.	.....	.....	3	.....	10 n	.....	e.	0.100	2.5	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mpia	29.32	744.7	29.87	758.7	80	26.7	89	calm	.....	.....	0	2 ck	7 ks	se.	calm.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	74.5	23.6	92	ne.	.....	.....	2	0	1 ks	.....	ne.	0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.45	773.4	30.51	774.9	31	— 0.6	78	calm	.....	.....	0	3 c	0	.....	.....	0	0	clear	W. J. Fisher.
St. Thomas, W. I.	30.07	763.8	30.20	767.1	76	24.4	69	e.	.....	.....	.....	0	2 k	.....	e.	0.25	6.3	clear	Aug. Wallog.
Havana, Cuba	30.04	763.0	30.11	764.8	69.9	21.1	87	e.	10	4.5	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
York Factory B. A.	29.81	757.2	29.88	758.9	—34.0	—36.7	.....	nw.	21	9.4	.....	0	0	.....	.....	0	0	clear	Fortesque & Wood.

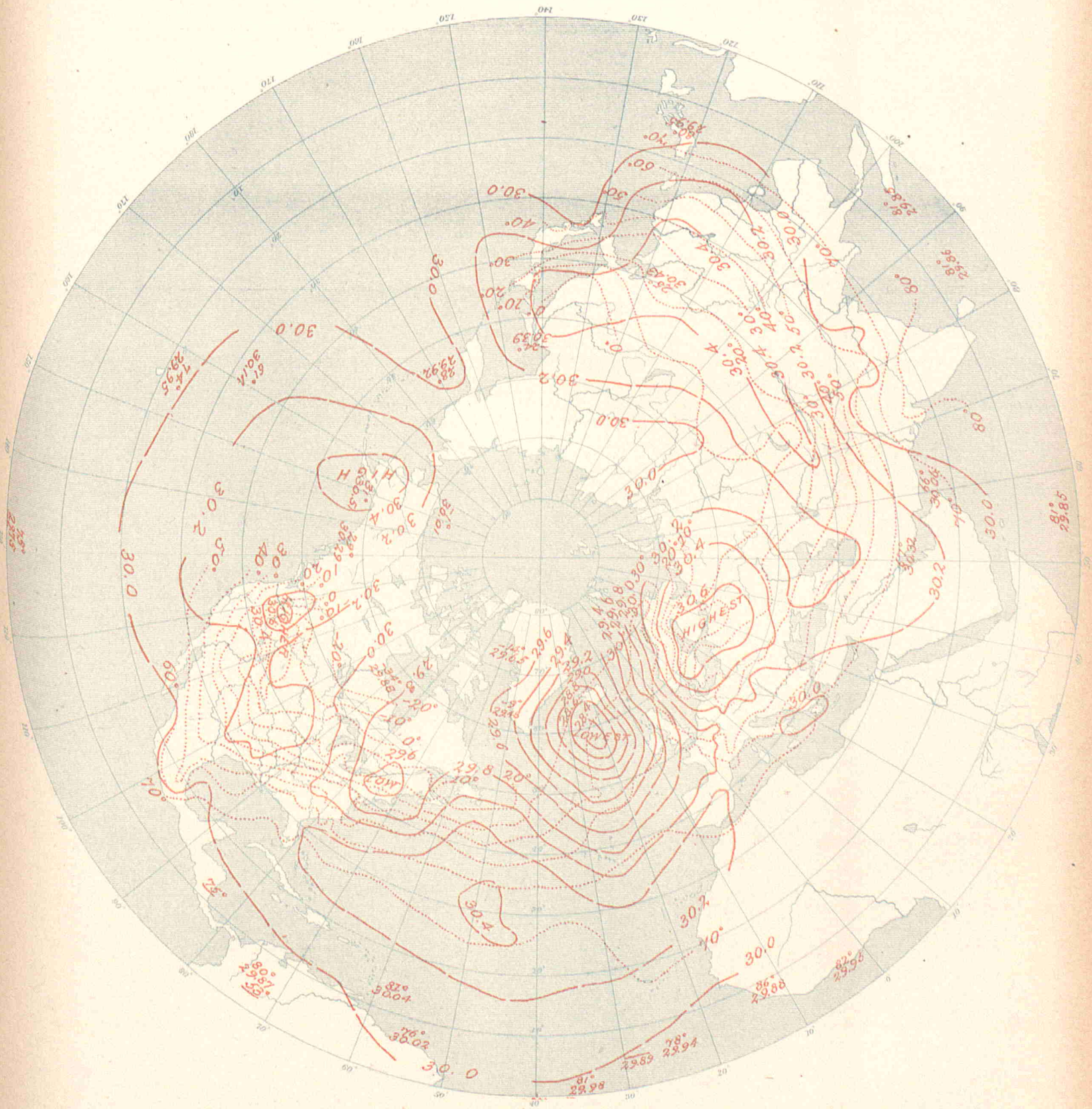
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell: Character.	Sea-swell: Direction from	Weather.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. Dock-Yard, Bermuda, W. I.	30.32	770.1	66.5	19.2	92	sse	.....	.....	1–2	.....	3	sse.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Fawn, N. 4° 35′, W. 25° 14′	29.94	760.5	78	25.6	100	nne.	.....	.....	3	.....	8	.....	.....	.....	.....	4	n.	misty.
H. M. S. Iron Duke, N. 35° 54′ E. 14° 34′	30.06	763.5	62	16.7	83	wnw.	.....	.....	1–4	.....	6	wnw.	.....	.....	.....	3	wnw.	d. clouds.
H. M. S. Monarch Port Said, Egypt	30.15	765.8	72	22.2	61	n.	.....	.....	2–3	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Minotaur, N. 48° 50′, W. 6° 00′	29.75	755.6	52	11.1	86	sse.	.....	.....	4	.....	10	wsw.	.....	.....	.....	6	sw.	misty.
H. M. S. Tyne, N. 4° 24′, W. 4° 04′	29.95	760.7	82	27.8	87	w.	.....	.....	2	.....	3	wnw.	.....	.....	.....	1	wsw.	misty.
H. M. Frigate Vanadis, N. 42° 13′, E. 17° 12′	30.03	762.8	51.1	10.6	65	n.	.....	.....	1	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	29.66	753.4	33	0.6	7	sse.	7	3.1	.....	.....	10	.....	sw.	.....	.....	.....	.....	hailing.
U. S. S. Alliance, Bahia Honda, Cuba, W. I	30.11	764.8	74	23.3	100	ene.	.....	.....	1–2	.....	2	.....	.....	0	0	sm'h	.....	clear.
U. S. S. Enterprise, St. Vincent, Cape Verde Islands*	30.13	765.3	68	20.0	74	ene.	.....	.....	4	.....	2	.....	ne.	.....	.....	sm'h	.....	clear.
U. S. S. Jamestown, N. 21° 51′ W. 53° 42′	30.24	768.1	75	23.9	76	e.	.....	.....	6	.....	2	.....	e.	.....	.....	mod.	e.	fair.
U. S. S. Kearsarge, N. 12° 51′, W. 72° 27′	29.93	760.2	79	26.1	95	ene.	.....	.....	5	.....	2	.....	ene.	.....	.....	mod.	ene.	fair.
U. S. S. Lancaster, N. 36° 00′, W. 5° 53′	30.19	766.8	59	15.0	94	ssw.	.....	.....	3	.....	0	.....	.....	.....	.....	h'vy	ssw.	clear.
U. S. S. Nipsic, N. 22° 58′, W. 42° 06′	30.38	771.6	73	22.8	71	e.	.....	.....	3	.....	5	.....	e.	.....	.....	long	ne.	fair.
U. S. S. Quinnebaug, N. 41° 05′, E. 3° 29′	30.20	767.1	55	12.8	100	w.	.....	.....	4	.....	8	.....	w.	.....	.....	.....	.....	cloudy.
U. S. S. St. Louis, League Island, Pa.	.....	.....	37	2.8	90	ssw.	11	4.9	.....	.....	10	.....	.....	0.44	11.2	.....	.....	raining.
U. S. S. Tennessee, St. Croix, W. I*	30.14	765.5	77	25.0	90	ene.	19	8.5	.....	.....	2	.....	.....	0.29	7.4	.....	.....	showery.
U. S. S. Vandalia, Gonaives, Hayti, W. I *	30.06	763.5	77	25.0	77	ne.	.....	.....	3	.....	5	.....	w.	.....	.....	.....	.....	fair.
U. S. S. Vantic, N. 26° 42′, W. 86° 06′	30.16	766.1	77	25.0	90	ene.	.....	.....	3	.....	8	.....	.....	.....	.....	sm'h	.....	cloudy.
S. S. British Crown, N. 41° 01′, W. 50° 35′†	30.34	770.6	30	2.2	.....	nne.	.....	.....	4	.....	6	.....	nnw.	0	0	con.	.....	fine.
S. S. British Prince, N. 47° 15′, W. 35° 55′†	29.63	752.6	30	2.2	.....	nne.	.....	.....	6	.....	10	.....	nne.	6 h'r	6 h'r	h'vy	var.	heavy snow
S. S. Illinois, Delaware river	29.72	754.9	36	2.2	90	sw.	.....	.....	4	.....	10	.....	sw.	.....	.....	mod.	sw.	overcast.
S. S. Indiana, N. 40° 16′, W. 63° 26′	.....	.....	58	14.4	87	sw.	.....	.....	5	.....	5	.....	sw.	rain	rain	mod.	sw.	squally.
S. S. Lord Clive, N. 52° 35′, W. 5° 55′	29.73	755.1	.....	.....	.....	ssw.	.....	.....	4	.....	0	.....	.....	10 h'r	10 h'r	sl't	sw.	fine.
S. S. Ohio, Liverpool, Engt.	29.65	753.1	48	8.9	92	s.	.....	.....	3	.....	4	.....	s.	.....	.....	.....	.....	clear.
S. S. Pennsylvania, N. 51° 10′, W. 16° 17′†	29.03	737.3	46	7.8	100	sse.	.....	.....	8	.....	7	.....	sse.	5 h'r	5 h'r	h'vy	sw.	cloudy.
S. S. Circassian, N. 50° 08′, W. 40° 29′ *	29.61	752.1	28	—2.2	.....	w.	.....	.....	6	.....	10	.....	.....	4 h'r	4 h'r	5	w.	snowing.
S. S. Manitoban, N. 49° 02′, W. 40° 30′	29.72	754.9	33	0.6	.....	nw.	.....	.....	6	.....	10	.....	nw.	10 h'r	10 h'r	h'vy	nw.	cloudy.
S. S. Scandinavian, N. 46° 25′, W. 44° 14′	30.11	764.8	21	— 6.1	.....	wnw	.....	.....	6	.....	10	.....	wnw.	snow	snow	con	wnw.	snowing.
S. S. Stella, N. 40° 10′, W. 61° 08′	30.15	765.9	51.8	11	.....	ssw.	.....	.....	3	.....	8	.....	s.	.....	.....	3	w.	squally.
S. S. Ailsa, Santa Martha, U. S. C†	29.92	760.0	84	28.9	91	ne.	.....	.....	6	.....	0	.....	.....	0	0	mod.	ne.	clear.
S. S. Anchoria, N. 42° 44′, W. 57° 05′†	30.22	767.6	.....	.....	.....	s.	.....	.....	3	.....	10	.....	w.	0	0	sm'h	.....	overcast
S. S. Assyria, N. 33° 54′, W. 16° 41′	30.25	768.3	66	18.9	94	wsw.	.....	.....	5	.....	5	.....	wsw.	.....	.....	mod.	nw.	
S. S. Dorian, N. 42° 10′, W. 51° 32′	30.37	771.4	35	1.7	.....	wnw.	.....	.....	2	.....	10	.....	w.	snow	snow	mod.	w.	threatening.
S. S. Galatia, N. 32° 00′, E. 28° 56′ †	30.15	765.8	68.3	20.2	79	sse.	.....	.....	2	.....	0	.....	.....	.....	.....	mod	se.	clear.
S. S. Landaff City, N. 41° 06′, W. 67° 40′	.....	.....	44	6.7	.....	sw.	.....	.....	6	.....	10	.....	sw.	4 h'r	4 h'r	mod.	sw.	dense fog.
S. S. Bothnia, N. 49° 34′, W. 25° 42′	29.12	739.6	39	3.9	91	nw.	.....	.....	4	.....	9	.....	nw.	snow	snow	.....	nw.	
S. S. Gallia, N. 40° 44′, W. 69° 50′	29.76	755.9	44	6.7	100	wsw.	.....	.....	6	.....	10	.....	.....	.....	.....	sm'h	.....	raining.
S. S. Pavonia, N. 50° 52′, W. 26° 09′	29.04	737.6	41	5.0	73	w.	.....	.....	5	.....	9	.....	w.	.....	.....	mod	w.	cloudy.
S. S. Colina, N. 54° 08′, W. 11° 45′†	29.10	739.1	.....	.....	.....	ssw.	.....	.....	8	.....	4	.....	sw.	3 h'r	3 h'r	long	sw.	clear.
S. S. Labradore, N. 42° 02′, W. 55° 08′	.....	.....	32.0	0.0	.....	calm	.....	.....	0	.....	2	.....	.....	hail	hail	sm'h	.....	clear.
S. S. Pereire, N. 51° 02′, W. 19° 49′†	28.97	735.8	40.1	4.5	.....	nnw.	.....	.....	3	.....	10	.....	nw.	rain	rain	h'vy	wnw.	covered.
S. S. Ville de Marseilles, Vera Cruz, Mexico	.....	.....	69	20.6	.....	se.	.....	.....	3	.....	10	.....	.....	light	light	.....	.....	drizzling.
S. S. Abyssinia, N. 50° 19′, W. 20° 54′	29.05	737.9	44	6.7	92	nw.	.....	.....	4	.....	8	.....	nw.	0	0	f'gh	nw.	squally.
S. S. Bohemia, N. 49° 46′, W. 9° 20′	29.54	759.3	.....	.....	.....	sw.	....	.....	5-7	.....	5 n	.....	wsw.	.....	.....	long	w.	snowing.
S. S. Silesia, N. 50° 53′, W. 23° 00′†	29.07	738.4	.....	.....	.....	w.	.....	.....	4	.....	10	.....	w.	0	0	6	w.	overcast.
S. S. Bulgarian, N. 50° 43′, W. 23° 28′ *	29.17	740.9	.....	.....	.....	wnw.	.....	.....	7	.....	10	.....	wnw.	2 h'r	2 h'r	high	nw.	
S. S. Virginian, N. 43° 00′, W. 58° 20′ *	30.18	766.6	36	2.2	.....	sse.	.....	.....	4	.....	10	.....	s.	0	0	light	w.	overcast.
S. S. Archimedes, N. 4° 28′ W. 29° 48	29.89	759.2	.....	.....	.....	nne.	.....	.....	4	.....	2	.....	nne.	7 h'r	7 h'r	long	ne.	fine.
S. S. Colorado, N. 29° 08′ W. 80° 40′ †	30.20	767.1	60	15.6	.....	s.	.....	.....	2	.....	0	.....	.....	light	light	long	se.	clear.
S. S. San Marcos, N. 32° 26′, W. 76° 40′	.....	.....	.....	.....	.....	s.	.....	.....	5	.....	5	.....	s.	0	0	mod.	sse.	fine.
S. S. Chalmette, Sandy Hook, N. J †	29.67	753.6	40	4.4	.....	wsw.	.....	.....	4	.....	10	.....	.....	12 h'r	12 h'r	.....	sse.	light rain.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																	
S. S. Hermod, N. 44° 20′, W. 35° 57′†	29.78	756.4	48.2	9.0		w.			10		7	w.	4 h'r	4 h'r	high	w.	threatening.
S. S. Alleghany, Chesapeake Bay,†..	29.78	756.9	40	4.4		sw.			7		8	w.	h'vy	h'vy			stormy.
S. S. Archimede, N. 35° 17′, W. 13° 51′†	30.23	767.4	68	20.0		wsw.			3		3?	sw.	o	o	long	nnw.	cloudy.?
S. S. Picqua., N. 38° 16′ W. 43° 00′			54	12.2		nw.			4		4	nw.	o	o	long	nw.	fair.
S. S. City of Washington, N. 22° 55′, W. 85° 25′†	30.18	766.6	78	25.6		ene.			5		2	ene.	o	o	light	ne.	fine.
S. S. Santiago, Cienfuegos, Cuba, W. I	30.25	768.3	77	25.0		nne.			3		o		o	o			fine.
S. S. Egypt, N. 40° 24′, W. 70° 22′*	29.74	755.4	44	6.7		ssw.			3		10		ssw.	11 h'r	11 h'r	mod.	ssw.	heavy rain.
S. S. England, off Liverpool Bar, Eng	29.62	752.3				ssw.			6		o			12 h'r	12 h'r			clear.
S. S. Erin, N. 40° 29′, W. 73° 42′	29.56	750.8	37	2.8		sw.			6		10		sw.	6 h'r	6 h'r	sm'h		hazy.
S. S. Greece, N. 49° 50′, W. 4° 48′	29.62	752.3	54	12.2		sse.			4		o		se.	6 h'r	6 h'r	h'vy	sw.	fair.
S. S. Queen, N. 50° 25′, W. 3° 20′	29.89	759.2	48	8.9		w.			3		10		calm	o	o	sm'h		overcast.
S. S. America, N. 41° 51′, W. 53° 57′*	30.41	772.4	40.0	4.4	73	w.			2		8		se.	o	o	mod.	nw.	clearing.
S. S. Braunschweig, Porto Grande, Cape Verd Isd	30.12	765.0	75.0	23.9	77	nne.			4		3?		nne.	o	o	light	ne.	cloudy?
S. S. Donau, N. 49° 27′, W. 8° 02′	29.65	753.1				sse.			4		8		sw.	3 h'r	3 h'r	h'vy	wsw.	cloudy.
S. S. Hermann, N. 43° 47′, W. 45° 26′			36.5	2.5	82	nw.			6		10		nw.	4 h'r	4 h'r	6	nw.	cloudy.
S. S. Muriel, N. 30° 05′, W. 67° 50′*	30.29	769.4	70	21.1		sse.			3		o					mod.	e.	clear.
S. S. Belgenland, N. 42° 15′ W. 58° 20′ *†	30.15	765.8	37	2.8	81	s.			2		10		ssw.	o	o	mod		cloudy.
S. S. Nederland, N. 49° 58′ W. 17° 22′			50	10.0	93	s.			7		2?		ssw.	8 h'r	8 h'r	high	sw.	overcast.?
S. S. Rhyniand, Antwerp, Belgium	30.15	765.8	42	5.6	83	e.			4		o			o	o			clear.
S. S. Pennland, N. 50° 04′, W. 4° 41′	29.87	758.7	50	10.0	93	s.			4		10		sw.	12 h'r	12 h'r	long	sw.	
S. S. Waesland, N. 43° 50′, W. 54° 14′	30.37	771.4	27	—2.8		wsw.			3		10		wsw.	snow	snow	sm'h	wsw.	cloudy.
S. S. Zeeland, Eddystone, Eng*†	29.78	756.4	56	13.3		s.			3		1		s.	6 h'r	6 h'r	sm'h	s.	fair.
S. S. P. Caland, N. 49° 47′, W. 21° 20′	29.10	739.1	43.5	6.4	91	nw.			4		10		wnw.			o	wnw.	cloudy.
S. S. Schiedam, N 50° 20′ W. 1° 50′	29.83	757.7	60.4	15.8		calm			0		4		se.	7 h'r	7 h'r	mod.		fair.
S. S. Zaandam, N. 40° 28′, W. 70° 00′	29.74	755.4	56.8	13.8	98	s.			4		10 n		w.	12 h'r	12 h'r	3	s.	foggy.
S. S. Claudius, Greytown, Nicaragua, C. A†	30.02	762.5	76.0	24.4	91	e.			3		6		ne.	hv'y	hv'y	long	ne.	rainy.
S. S. Valencia, La Guayra, Venezuela†	30.05	763.3	77	25.0	86	ne.			2		5?		ene.	1 h'r	1 h'r	h'vy	ne.	cloudy.?
S. S. State of Indiana, N. 43° 31′ W. 50° 30′*†	30.20	767.1	20	— 6.7		w.			5		10		w.	2 h'r	2 h'r	mod.	w.	fine.
S. S. Romano, N. 42° 50′, W. 37° 07′*			42	5.6		nw.			8		8		nw.	5 h'r	5 h'r	h'vy	wnw	fair.
S. S. Salerno, Grimsby Eng†	29.90	759.4	45	7.2		sse.			8		9		se.	o	o	r'gh	se.	cloudy.
S. S. Brooklyn, N. 48° 34′, W 37° 14′			39	3.9		w.			8				w.	6 h'r	6 h'r	h'vy	w.	squally.
S. S. Dominion, N. 53° 06′, W. 4° 50′ *†	29.78	756.4	50	10.0		w.			3		2		w.	o	o	light	w.	misty.
S. S. Surrey, N. 45° 43′, W. 41° 22′†	29.90	759.4	32	0.0		w.			9		8		w.	8 h'r	8 h'r	h'vy	var.	cloudy.
S. S. Lake Huron, N. 41° 15′, W. 66° 58′			40	4.4		s.			0		10		sw.	7 h'r	7 h'r	mod.	sw.	
S. S. Plantyn, N. 50° 39′, W. 22° 21′									9		4		sw.	15 h'r	15 h'r	high	wnw.	
S. S. Norman, N. 39° 40′, W. 73° 50′						nw.			1				nw.	light	light	r'gh	sse.	dense fog.
S. S. Saxon, Boston, Mass†	29.49	749.0				sw.					10							raining.
S. S. Adriatic, N. 42° 33′, W. 55° 26′†	30.26	768.6	32	0.0		sw.			2		10		sw.	2 h'r	2 h'r	sm'h	w.	overcast.
S. S. Baltic, N. 48° 31′, W. 31° 20′*	29.26	743.2	39	3.9	64	nnw.			7		5		nnw.	snow	snow	r'gh	nw.	snowing.
S. S. Iowa, N. 42° 53′, W. 50° 50′*†	30.40	772.1	32	0.0		wnw.			4		9		wnw.	9 h'r	9 h'r	mod.	wnw.	cloudy.
S. S. City of Agra, N. 2° 23′, W. 34° 40′	29.98	761.5	80.5	26.9	91	ene.			3-4		9							showery.
S. S. Antonio Lopez, N. 21° 59′, W 44° 29′	30.29	769.4	75	23.9	72	ne.			3		2			o	o	mod.	ne.	clear.
Schr. Abbie H. Gheen, Hampton Roads, Va†	30.01	762.2	46	7.8		sw			2									foggy.
Bg. Abbie Clifford, Cardenas, Cuba, W. I†	30.17	766.3	75	23.9		sse.			1		2		e	o	o			fine.
Bk. Aquidneck, N. 36° 48′, W. 71° 33′						sse.			2				ssw.	o	o	h'vy	sw.	clear.
Bg. Alcira, Maracaybo, Venezuela, S. A	29.95	760.7	85	29.4		ne.			2		4		ne.	o	o			clear.
Schr. Anna A. Holton, Tampico, Mexico†	30.01	762.2	68	20.0		sw.			3		10		wsw.	o	o	sm'h		cloudy.
Schr. Annie R. Lewis, St. Pierre, Martinique, W. I†	30.14	765.5	78	25.6		ene.			5		10		ene.	3 h'r	3 h'r			raining.
Bk. Anna Thormann, N. 2° 44′ W. 28° 07′*	30.03	762.7	79.0	26.1	84	ne			5		10 k		ne.	sh'rs	sh'rs	rg'h	nne.	misty.
Bk. Aureola, Swansea, Wales			50	10.0		w.			5				ne.	sh'rs	sh'rs	rg'h	nne.	misty.
Bk. Achille F, N. 46° — W. 21° —*†	29.38	746.2	48	8.9	86	wsw.			1		2		w.	3 h'r	3 h'r			fine.
S. Armenia, N. 31° 00′, W. 41° 30 *...	30.26	768.6	67	19.4	89	w.			7		6		w.	3 h'r	3 h'r	h'vy	w.	squally.
Bg. Belle of the Bay, N. 29° 47′, W. 87° 19′†	30.23	767.8				ssw.			3		5		w.	½ h'r	½ h'r	mod	nw.	misty.
Bk. Bremen, N. 30° 20′, W. 70° 10′ *	30.32	770.1				ssw.			4		10		w.	o	o	mod	s.	foggy.
S. S. Benledi, N. 40° 30′, W 50° 00′*	30.36	771.1	45	7.2	92	n.			2-3		7		sw.	o	o	light	s.	fair
Bkt. Bonny Doon, N. 28° 18′, W. 66° 25′*†	30.28	769.1				ese.			3		2?		var.	2 h'r	2 h'r	mod.	var.	cloudy.
Bk. Bare, N. 29° 07′, W. 36° 15′			70	21.1		sw.			3		1		ese.	o	o	long	e.	cloudy.?
Bk. Pilgrim, N. 39° 30′, W. 58° 08′						nw.			3		1		sw.	o	o	long	nnw.	fair.
Bk. Champion, N. 40° 23′, W. 50° 50′			44	6.7		n.			2		3		nw.	o	o	mod.	ne.	fair.
Bkt. C. S. Bushnell, N. 36° 50′, W. 18° 35′	30.12	765.0				wsw.			6		8		wsw.	6 h'r	6 h'r	long	n.	
S. Cornelius, N. 58° 34′, W. 21° 35′*†	27.95	709.0	43.2	6.2		s.			5		5		nw.	light	light	hv'y	nw	hazy.
Bk. Commerce, Cadiz, Spain†	30.16	766.1	59	15.0		sw.			6		4		ssw.	12 h'r	12 h'r	h'vy	var.	squally.
Bk. Ceres, N. 21° 09′, W. 33° 40′*	30.29	769.4	70.5	21.4	77	e.			4		2		sw.	o	o			fine.
Bk. Chas. Stewart, N. 33° 20′, W. 48° 4 7′†	30.47	773.9	04	17.8		ne.			3		3		se.	sh'rs	sh'rs			fair.
Schr. Edith R. Seward, Palenque, Hayti, W. I†	30.16	766.1	78	25.6		ne.			3		5		n.	o	o	largo	w.	
S. E. J. Spicer, N. 43° 20′, W. 24° 10′	29.55	750.6	55	12.8	93	nw.			3		4		ene.	¼ h'r	¼ h'r	mod.	ese.	clear.
Bk. E. D. Bigelow St. Michael, Azores Islands*†	29.80	756.9				w.			6		7		nnw.	rain	rain	high	nw.	cloudy.
S. Festina Lente, N. 57° 40′, W. 22° 14′			45	7.2		s.			8		5		w.	o	o			squally.
Bk. Grey Eagle, N. 21° 09′, W. 59° 58′*†	30.10	764.5				e.			4		7	n.	s.	11 h'r	11 h'r	h'vy	ese.	fair.
Bg. George, N. 27° 46′, W. 70° 54′*†	30.37	771.4				se.			5		5		ene.	2 h'r	2 h'r	h'vy	ene.	threatening.
Bk. Heinrich & Tonio, N. 31° 08′, W. 66° 40′†	30.29	769.4	68	20.0		ssw.			5		2		sse.	o	o	sm'h	se.	fair.
Schr Hattie Weston, Mayro, Trinidad, W. I *†	30.08	764.0	79	26.1		ene.			4		3		sw.	o	o	light	se.	clearing.
Bk. Hattie G. McFarland, N. 30° 00′, W. 88° 00′*†	30.20	767.1	72	22.2		s.			4		2		e.	o	o	long	e.	fair.
Bk. Horace Scudder N. 26° 52′, W. 46° 14′*†	30.42	772 7	07	19.4		ne.			1		3		s.	o	o	sm'h	s.	fine.
Schr. Isabel Alberto, Staten Island, N. Y†	29.78	756.4				sw.			3		10		e.	o	o	long	ne.	cloudy.
S. S. J. W. Wilson, Brazos, Santiago, Texas *†	29.93	760 2	48	8.9		nw.			2		10		w.	sleet	sleet			stormy.
Bk. Johanne, N. 36° 55′, W. 72° 50′ *†	30.00	762.0	69	20.6		wsw.			4		10			2 h'r	2 h'r			drizzling.
Schr. John L. Thomas, Vivorilla Cays, C. A*†	30.08	764.0				ene.			7		10		sw.	5 h'r	5 h'r	cross	var.	threatening.
Bg. L. & W. Armstrong, N. 18° 55′, W. 60° 10′*†	30.26	768.6				e.			5		1		e.	½ h'r	½ h'r			fine.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3				se.			6		1		ese.	o	o	long	e.	clear.
Bg. Mary A. Troop, King Roads, Eng*†	29.75	756.4				calm			1		3		e.	o	o			fine.
Schr. Minnie A. Bonsall, Mayport, Fla†	30.17	768.8	71	21.7		ssw.			0		0?			o	o			fair.?
Bgt. Myrtle, Saint Thomas, W. I*†	30.00	762.0				ene.			1				ssw.	o	o			clear.
S. M. P. Grace, N. 13° 09′, W. 37° 59′*	30.04	763.0	74	23.3		ne.			6		1		ene.	sh'rs	sh'rs			fair.
Bkt. Norena, Matanzas, Cuba, W. I *†	30.23	767.8				ese.			6		5		ne.	slight	slight	r'gh	ne.	squally.
Bk. Ottawa, Yorrevieja Road, Spain*	30.11	764.8	03	17.2		wnw.			1		0			o	o			fine.
S. S. Raleigh, Boston Bay, Mass†	29.57	751.1	38	3.3		sw.			3		0			o	o			clear.
Bk. Reindeer, N. 14° 05′ W. 61° 12′*	30.01	762.2				ene.			2		fg.			o.5	13.	sm'h		foggy.
S. Rudolph, N. 36° 55′ W. 33° 10′						ene.			6				ene.					squally.
Bk. Saga, N. 44° 54′, W. 28° 44′			54	12.2		wnw.			6		6		wnw.	8 h'r	8 h'r	high	wnw.	cloudy.
Bk. Sunbeam, N. 37° 45′, W. 13° 25′			50	10.0		wnw.			9		5		nw.	15 h'r	15 h'r	10	nw.	
Bk. Usko, N. 50° 53′, W. 9° 35′*†.	30.16	766.1	03	17.2	94	sw			6		10		w.	1 h'r	1 h'r	h'vy	wnw.	misty.
S. Vincenzo Accame, N. 36° 25′, W. 7° 46′*	29.44	747.8				s.			6		5		ssw.	2 h'r	2 h'r	cross	sw.	fair.
Schr. Wm. Wiler, Pointe a Pitre, Guadeloupe, W I†	30.04	763.0	66.2	19		sw.			8.		10		ssw.	2 h'r	2 h'r	r'gh	ssw.	
S. Wm. Woodbury, N. 61° 58′, W. 3° 35′*	30.08	764.0				o.			5		5		e.	o	o			fine.
	29.82	757.2	43	6.1		s.			10		10		s.			high	s.	thnd'r st'rm
District No. 2—South Atlantic.																		
H. M. S. Starling, S. 5° 17′ W. 5° 58′	30.01	762.2	78.8	26.0	95	se.			2		0							blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay*	29.98	761.5	75	23.9	81	calm			0		0			o	o			clear.
U. S. S. Galena, Montevideo, Uruguay*	29.97	761.2	73	22.8	81	se.			1		0					sm'h		clear.
S. S. Grecian, S. 18° 00′, W. 36° 55′*	30.10	764.5	82	27.8	83	ese.			1		2		ese.	o	o	sm'h		clear.
S. S. Havellus, Buenos Ayres, La Plata†	30.15	765.8	76	24.4		se.			4		1			o	o			clear.
S. S. Ptolemy, S. 16° 45′, W. 38° 30′	30.12	765.0	82	27.8	76	ene.			4	0	5 k			o	o	3	nne.	d. clouds.
S. S. Auckland, S. 11° 48′, W. 21° 10′	30.08	764.0	79	26.1	09	e.			3		2							blue sky.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2—South Atlantic.—Continued.																	
S. S. Caldew, S. 26° 33′, E. 6° 03′	30.12	765.0	71	21.7	74	se.			4		6						d. clouds.
S. S. May Hulse, S. 46° 48′, W. 57° 32′	30.14	765.5	54	12.2	86	calm			0		2						blue sky.
S. S. Ambrose, Para, Brazil†	30.02	762.5	78	25.6		var.			1–2		2	ne.	2 h'r	2 h'r			fluc.
Bg. Annie R. Storer S. 11° 50′, W. 35° 30′*†	30.28	769.1				e.			4		1	ene.	1 h'r	1 h'r	sm'h	ene.	clear.
Bk. Edmund Phinney, S. 44° 28′, W. 57° 55′ †	30.18	766.6	52	11.1		sse.			1		10		0	0	sm'h	s.	foggy.
Bk. E. L. Pettingill, S. 39° 38′, W. 37° 51′*†	30.30	769.6	64	17.8		nnw.			1		0		0	0	sm'h	ssw.	
S. E. B. Sutton, S. 8° 16′ W. 32° 10′ †	30.06	763.5	83.5	28.6	79	e.			4		3		0	0	sm'h	e.	fair.
S. Grecian, S. 1° 00′, W. 28° 26 †	30.02	762.5	80	26.7	86	se.			4		2	se.	0	0	sm'h	nne.	
S. Geo. Sietson, S. 49° —′, W. 54° —′ *†	30.05	763.3	55	12.8	80	calm			0		3		0	0	sm'h	s.	clear.
Bkt. Josephine, S. 36° 14′, E. 10° 08′†	30.05	763.3	69	20.6	75	w.			5		8		1 h'r	1 h'r	mod	sw.	fair.
S. Titan, S. 19° 25′, W. 38° 14′*†	30.15	765.8	80	26.7	87	ene.			3		1	ene.	0	0	sm'h	ene.	flue.
Bk. Wandering Jew, Montevideo, Uruguay †	30.06	763.5	71	21.7		ne.			2		3	ne.	0	0			clear.
S. Sacramento, S. 42° 52′, E 3° 43′*†	30.00	762.0	57	13.9	93	nw.			6		5	nw;sw.	0	0	mod.	nw.	fair.
District No. 3—North Pacific.																	
S. S. Mexico, N. 35° 19′, W. 121° 34′†	30.22	767.6	50	10.0	65	ne.			2		1	e.			sm'h		clear.
S. S. Arabic, Yokohama, Japan*†	30.08	764.0	36	2.2	90	n.			5		10	n.	snow	snow			overcast.
S. S. Belgic, Hong Kong, China *†	30.17	766.3	57	13.9	100	calm			0		3		0	0	sm'h		clear.
S. S. Gaelic, N 37° 41′, E. 145° 56′	30.28	769.1	37	2.8	100	ne.			5		10	ene.	6 h'r	6 h'r			overcast.
S. S. Oceanic, N. 33° 47′, W. 164° 51′*	30.14	765.5	61	16.1	94	e.			5		9	e.			mod.	se.	cloudy.
S. S. Mississippi, Seattle, Wash. Ter†	30.37	771.4	26	—3.3	88	se.			1		0						clear.
S. S. Willamette, Seattle, W. T †	30.34	770.6	28	—2.2	77	nne.			1		2	nne.	0	0			clear.
S. S. Anson, N. 33° 44′, W. 118° 26′†	30.12	765.0	45	7.2	76	e.			4		0				sm'h		clear.
S. S. City of Chester, San Francisco, Cal*†	30.22	767.6	38	3.3	81	n.			2		0						clear.
S. S. Dakota, Seattle, W. T *†	30.28	769.1	27	—2.8	88	se.			1		8	s.	4 h'r	4 h'r	sm'h	nw.	cloudy.
S. S. Queen of the Pacific, San Francisco, Cal†	30.25	768.3				nne.			4		0						clear
S. S. City of Pekin, N. 26° 57 , E. 122° 57′ †	30.29	769.4	51	10.6	86	nw.			4		10	n.			mod.	n.	cloudy.
S. S. City of Tokio, N. 32° 03′, E. 164° 01′†	30.17	766.3	67	19.4	84	se.			6		10	se.	2 h'r	2 h'r	mod.	se.	hazy.
S. S. City of Rio de Janeiro, Panama, Panama			79	26.1	95	n.			2		1	n.	0	0	light	n.	fine.
S. S. Colima, Mazatlan, Mexico†	29.96	761.0	62	16.7	?	nne.			4		3	wsw.	0	0	small	sw.	clear.
S. S. Granada, Champerico, Mexico†	29.84	757.9	74	23.3	86	nne.			1		0		0	0	sm'h		clear.
H. M. S. Curacoa, Yokohama, Japan	30.07	763.8	34.5	1.4	63	nne.			2–4		10						snowing.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.97	761.2	72	22.2		ne.			2		10						overcast.
U. S. Naval Hospital, Yokohama, Japan*	30.27	768.8	31.5	— 0.3	100	n.			4		10	n.	0.36	9.1			heavy snow
U. S. S. Independence, Mare Island, Cal.	30.27	768.8	31	— 0.6	100	calm			0		0		0.08	2.0			clear.
U. S. S. Lackawanna, Honolulu, Sandwich Island*	29.95	760.7	74	23.3	72	ne.			1		10						cloudy.
U. S. S. Monocacy, Amoy, China	30.26	768.6	50	10.0	72	e.			4		5	ne.					fair.
U. S. S. Palos, Tientsin, China*	30.36	771.1	23	—5.0	100	w.			1		0						clear.
U. S. S. Ranger, N. 33° 09′, W. 118° 15′	30.19	766.8	50	10.0	79	n.			2		2	n.	0	0	sm'h		clear.
U. S. S. Richmond, Hong-Kong, China*	30.15	765.8	59	15.0	59	nw.			2		0		0	0			clear.
U. S. S Wachusetts, Honolulu, Sandwich Ids	29.97	761.2	73	22.8	81	ne.			2		10	ne.			sm'h		overcast.
Bk. Childwall, N. 0° 24′, W. 130° 22′ *	29.75	755.6	75	23.9		se.			2		6	ese.	0	0	gentle	ne.	fine.
S. St. Francis, N. 32° 53′ W. 125° 55′†	30.36	771.1	50	10.0		calm			0		8	nw.	2 h'r	2 h'r	sm'h	n.	rainy.
Tamega, Macao, China	30.23	767.8	54.5	12.5	69	nnw.			6		0		0	0			blue sky.
District No. 4—South Pacific.																	
H. M. S. Comus, Callao, Peru	29.89	759.2	65	18.3	100	sse.			1		10						foggy.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	30.26	768.6	67.3	19.6	79	ne.			4		4				1	e.	d. clouds.
H. M. S. Liffey S. 29° 56′, W. 71° 20′	29.83	757.7	62	16.7		calm			0						sm'h		d. clouds.
H. M. S Rocket, S. 42° 00′, W. 73° 05′	29.99	761.7	61	16.1	94	ssw.			2		3				sm'h		d. clouds.
H. M. S. Swiftsure, S. 0° 02′, W. 93° 15′	29.82	757.4	76	24.4	95	calm			0		4	s.					d clouds.
H. M. S. Sylvia, Port Tamar, Patagonia	29.86	758.4	52.2	11.2	93	wnw.			2		10						misty.
U. S. S. Essex, Callao, Peru	29.86	758.4	70	21.1	90	calm			0		5						fair.
U. S. S. Iroquois, S. 24° 54′, W. 92° 56′	30.04	763.0	70	21.1	90	ese.			4		10	ese.			mod.	ese.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.00	762.0	69	20.6	90	calm			0		2						clear.
U. S. S. Pensacola, Callao, Peru*	29.79	756.7	68	20.0	90	se.			1		2	se.	0	0			clear.
British Merchant, S. 6° 37′, W. 128° 08′	29.75	755.6	77	25.0	88	ese.			4		5						d. clouds.
Bk. Gronsvaer, Auckland, N. Z†	30.23	767.8	72.0	22.2		ne.			6		7	ene.					stormy.
S. S. Australia, S. 34° 20′, E. 162° 51′ *	29.26	743.2	70	21.1	100	n.			7		10	nw.	4 h'r	4 h'r	cross	nw.	misty.
S. S. City of Sydney, Sydney, N. S. W †	30.01	762.2	67	19.4	79	se.			4		8	se.	0	0			cloudy.
S. S. Zealandia, S. 7° 22′, W. 168° 10′	29.83	757.7	84	28.9	91	ne.			4		0				mod	ne.	fine.
H. M. S. Gannet, S. 28° 50′, W. 72° 20′	29.87	758.7	52	16.7	83	ese.			1		10				2	ssw.	overcast.
Bk. Warden Law, S. 21° 16′, W. 75° 55′*	30.08	764.0				sse.			2		2	se.	0	0	sm'h	sse.	fair.
S. Sovereign of the Seas, S. 42° 49′, W. 113° 19′ *†	30.30	769.6	56	13.3	94	s.			5		9	ssw.			h'vy	s.	raining.
District No. 5—Indian Ocean.																	
H. M. S. Dryad, N. 2° 20′, E. 55° 10′	29.85	758.2	81	27.2		nnw.			5		3	nw.			5	nw.	d. clouds.
H. M. M. Eclipse, N. 23° 30′ E. 61° 49′	29.96	761.0	66	18.9		nw.			3		0				3	nnw.	blue sky.
H. M. S. Himalaya, N. 5° 36′, E. 86° 03′	29.86	758.4	81	27.2	87	ne.			2		6				3	ne.	d. clouds.
H. M. S. Woodlark, Bushire, Persia	30.22	767.6	66.5	19.2	60	n.			3–5		3	nnw.			3	nw.	d. clouds.
S. S. Scotia, N. 6° 03′, E. 94° 31′	29.85	758.2	81.3	27.4	78	nne.			4		4						d. clouds.
Bk. Essex, S. 30° 07′, E 32° 13′ *†	29.98	761.5	81	27.2		nne.			1		2	nne.	0	0	light	sw.	fine.

International Chart I. February 7, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B. Hazen, Chief Signal Officer.
Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 8, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.26	768.6	60.8	16.0	81	s.	.....	.....	1	.....	1	.....	.....	0	0	very fair.....	Malaterre.
Algiers	.....	.....	30.23	767.9	61.5	16.4	49	wsw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Thève.
La Calle	.....	.....	30.22	767.6	67.6	19.8	.....	wsw.	.....	.....	1	.....	1	.....	.....	0	0	very fair.....	Fonfrède.
Tunis	.....	.....	30.19	766.7	.....	.....	61	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.30	769.5	63.0	17.2	74	wsw	.....	.....	3	.....	4	.....	.....	inap.	inap.	cloudy.....	Pérès.
Tebessa	.....	.....	30.26	768.6	03.7	17.6	55	n.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Dognon.
Geriville	.....	.....	.....	.....	58.3	14.6	23	sw.	.....	.....	4	.....	1	.....	.....	0	0	very fair..	Forfert.
Laghouat	.....	.....	30.27	768.9	59.0	15.0	45	n.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Abraham.
Biskra	.....	.....	30.27	768.9	08.0	20.0	29	calm	.....	.....	0	.....	0	.....	.....	0	0	clear.....	Mahau.
Australian.																			
Melbourne, Victoria	29.37	746.0	29.46	748.3	63.9	17.7	83	se.	12	5.4	.....	.....	10	.....	.....	0.29	7.4	thund'r st'm	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.76	756.0	30.34	770.7	35.6	2.0	82	ne.	.....	.....	1	.....	10	.....	.....	0.012	0.3	.....	Prof. Ivan Stczir.
Cracow, I. R Observatory	29.58	751.2	30.38	771.7	33.8	1.0	85	ne.	17.4	7.8	.....	.....	4	.....	.....	0.012	0.3	.....	Dr. Wierzbiski.
Eperies	29.43	747 6	30.36	771.1	34.9	1.6	76	calm	.....	.....	0	.....	10 s	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.98	736.2	30.29	769.4	35.2	1.8	65	sw.	.....	.....	1	.....	9	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.85	732.9	30.36	771.1	36.0	2.2	79	e.	.....	.....	1	.....	9	.....	.....	0.098	2.5	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.82	731.9	30.23	767.9	30.9	— 0.6	90	ene.	.....	.....	1	.....	10	.....	.....	0	0	gloomy.....	The Staff.
Lemberg	29.41	747.1	30.47	774.0	28.0	— 2.2	81	se.	.....	.....	1	.....	10	.....	.....	0.012	0.3	.....	Dr. T. Stanecki.
Neu Schmecks	26.81	681.0	30.37	771.4	28.4	— 2.0	.....	calm	.....	.....	0	.....	10	.....	.....	0.205	5.2	.....	Dr. V. von Szontagh.
Pola	30.18	766.5	30.30	769.5	43.7	6.5	87	s.	.....	.....	2	.....	4	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.84	758.0	30.30	769.7	40.6	4.8	56	s.	.....	.....	2	.....	6	.....	.....	0	0	.....	Joseph Midlinszay, S. J.
Szegedin	30.05	763.2	30.34	770.7	37.2	2.9	78	se.	.....	.....	1	.....	10	.....	.....	0	0	.....	Karl Stuncel.
Trieste	30.18	766.6	30.28	769.1	45.0	7.2	60	se.	.....	.....	1	.....	10	.....	.....	0	0	.....	Royal Academy.
Vienna	29.55	750.6	30.31	769.8	34.2	1.2	65	se.	.....	.....	3	.....	2	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.57	751.1	29.67	753.6	37.5	3.1	85	se.	47	21.0	.....	.....	10	.....	.....	0.656	16.5	raining.....	W. Boswell
Armagh, Observatory	29.15	740.4	29.39	746.5	40.5	8.1	88	ssw.	16	7.2	.....	.....	7	.....	.....	.....	.....	d. clouds....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.50	749.3	42.4	5.8	95	se.	18	8.0	.....	.....	10	.....	.....	.....	.....	raining.....	John Hartnup.
Bolton, Sharples	29.00	736.6	29.54	750.3	41.2	5.1	90	sse.	3	1.3	.....	.....	10	.....	.....	.....	.....	raining.....	Thomas Mackereth.
Bradford, Yorkshire	29.16	740 7	29.56	750.8	40.1	4.5	97	se.	.....	.....	3	.....	10	.....	.....	0.17	4.3	raining.....	McLandsborough&Preston.
Bridgetown, Barbadoes	30.04	763.0	30.07	763.8	81.0	27.2	58	ne.	.....	.....	4	.....	3	.....	.....	.....	.....	d. clouds....	Corpl. J. Surgenor, A. H. C
Cardington	29.46	748.3	29.57	751.1	45.4	7.4	96	se.	.....	.....	0.6	.....	10	.....	.....	.....	.....	overcast.....	John McLaren.
Chatham, School M. E.	29.46	748.3	29.60	751.8	48.9	9.4	98	s.	.....	.....	2	.....	10	.....	.....	blank	blank	misty.....	Corpl. G. A. Pickles.
Falmouth, Observatory	29.34	745.2	29.57	751.1	50.4	10.2	74	wnw.	.....	.....	2	.....	9	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.61	701.3	29.74	755.4	87.0	30.6	55	e.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky.....	Corpl. F. Milner, A. H. C.
Freetown	29.62	752.3	29.86	758.4	86.0	30.0	88	nw.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	29.32	744.7	29.36	745 7	47	8.3	92	sw.	.....	.....	3	.....	4	.....	.....	0.42	10.7	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.13	765.3	30.18	766.6	62.0	16.7	95	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	d. clouds	Sgt. F. Norris, A. H. C.
Glasgow, Observatory	29.26	743.2	29.46	748 3	41.6	5.3	71	se.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast.....	Harry Urquhart, Asst
Greenwich, Royal Obs'y	29.39	746.5	29.56	750.8	49.9	9.9	98	s.	.....	.....	1	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Guernsey	29.31	744 5	29.61	752.1	50.8	10.4	97	ssw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	A. Collenette, F. M. S
Kew, Observatory	29.52	749.8	29.50	750.8	51.5	10.8	90	s.	17	7.6	.....	.....	10	.....	.....	.....	.....	threatening.	The Staff.
Leicester, Museum	29.27	743.4	29.53	750.0	42.6	5.9	95	se.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	J. C. Smith.
Malta, Mediterranean	30.17	766.3	30.25	768.3	62.0	16.7	94	nw.	.....	.....	2	.....	0	.....	.....	0	0	blue sky.....	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.22	767.6	30.26	768.6	76.0	24.4	81	se.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.01	736.8	29.54	750.3	42.2	5.7	99	ese.	.....	.....	3	.....	10	.....	.....	.....	.....	squally.....	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.30	744.2	29.53	750.0	48.0	8.9	90	s.	.....	.....	3	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Plymouth	29.47	748.5	29.54	750.3	50.3	10.2	97	w.	.....	.....	1	.....	10	.....	.....	.....	.....	gloomy.....	John Merrifield.
Sandwick Manse, Orkneys	29.46	748.3	29.50	750.8	37.7	3.2	88	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	misty.....	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.10	764.5	30.17	766.3	42.2	5.7	88	nne.	.....	.....	2	.....	10	.....	.....	.....	.....	raining.....	W. H. Lyne.
Sheffield	29.30	744.2	29.58	751.3	40.9	4.9	99	se.	.....	.....	1	.....	10	.....	.....	0.09	2.3	drizzling....	W. F. Cooper.
Silloth Rectory	29.43	747 5	29.46	748.3	43.0	6.1	81	se.	.....	.....	5	.....	10	.....	.....	0.155	3.9	threatening.	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.55	750.6	40.0	4.4	91	e.	10	4.5	.....	.....	10	.....	.....	.....	.....	raining.....	Rev. S. J. Perry.
Strathfield Turgiss	29.35	745.5	29.57	751.1	51.5	10.8	98	s.	.....	.....	1	.....	10	.....	.....	.....	.....	showery.....	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.65	753 1	29.70	754.4	50	10.0	71	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	raining.....	W. Newcombe.
Valencia, Observatory	29.48	748.8	29.51	749.5	43.9	6.6	79	nw.	15	6.7	.....	.....	5	.....	.....	blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.89	759.2	30.28	769.1	57.9	14.4	65	nw.	9.3	4.2	.....	0	0	.....	.....	0	0	clear.....	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	4	—15.6	.....	nw.	1	0.4	.....	0	0	.....	.....	0.400	10.2	blue sky.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.79	756.7	29.84	757.9	9	—12.8	76	w.	11	4.9	.....	0	0	.....	.....	0.300	7.6	clear.....	H. J. Cundall, C. E.
Chatham, N. B*	29.80	756 9	29.87	758.7	— 3	—19.4	100	w.	3	1.3	.....	0	0	.....	.....	0.33	8.4	clear.....	G. A. Blair
Cornwall	29.71	754 0	29.92	760.0	13.0	—10.6	92	w.	.....	.....	1	.....	10 s	.....	.....	0.120	3.0	d. clouds....	Jas. Smith, M. A.
Dalhousie	29.80	756 9	29.80	758.4	2.0	—16.7	.....	w.	.....	.....	2	0	0	.....	.....	inap.	inap.	blue sky....	H. A. Johnson.
Father Point, Quebec*	29.86	758.4	29.88	758.9	2	—16.7	72	nw.	20	8.9	.....	0	5 s?	.....	w.	0.15	3.8	clear.?.....	J. McWilliams.
Fort Garry, Manitoba*	29.04	737.0	29.99	761.7	—10	—23.3	91	n.	11	4.9	.....	0	0	.....	.....	0	0	clear.....	James Stewart
Fredericton	29.88	758.9	29.95	760.7	— 6.9	—21.6	100	calm	0	0	.....	0	0	.....	.....	0.230	5.8	blue sky.....	Prof. Harrison, L. L. D.
Granton	28.97	735.8	30.20	767.1	3.7	—15.7	95	sw.	9	4.0	.....	0	0	.....	.....	0	0	blue sky.....	Jas. Grant.
Halifax, N. S*	29.79	756.7	29.93	760.2	13	—10.6	87	w.	4	1.8	.....	0	0	.....	.....	0.630	16.0	clear.....	A. Allison.
Hamilton	29.73	755.1	30.14	765.5	11.7	—11.3	90	sw.	.....	.....	4	4 k	0	w.	.....	0.200	5.1	d. clouds....	Geo. Dickson, B. A.
Kingston, Ontario*	29.66	753.4	30.02	762.5	14	—10.0	76	w.	12	5.4	.....	2 cs	5 ks	sw.	sw.	0.01	0.3	cloudy.....	A. P. Knight, M. A
Montreal, Quebec*	29.70	754.4	29.92	760.0	14	—10.0	80	s.	6	2.7	.....	.....	10 n	.....	.....	0.10	2.5	cloudy	C. H. McLeod, C. E.
Ottawa	29.65	753.1	29.92	760.0	10.0	—12.2	92	w.	.....	.....	1	0	4 s	.....	.....	0.20	5.1	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.17	740 9	29.92	760.0	15	—9.4	83	sw.	22	9.8	.....	.....	10 n	.....	sw.	0.12	3.0	light snow ..	Rev. R. Mosley.
Peterboro	29.20	743.2	30.00	763.5	9.8	—12.3	78	w.	.....	.....	3	8 k	0	.....	.....	0	0	d. clouds....	J. Dixon, B. A.
Port Dover, Ontario	29.43	747 5	30.20	767.1	7	—13.9	100	sw.	12	5.4	.....	0	0	.....	.....	0.05	1.3	clear.....	H. Morgan.
Port Stanley, Ontario	29.50	749.3	30.23	767.8	4	—15.6	96	w.	14	6.3	.....	0	0	.....	.....	0.02	0.5	clear.....	M. Payne.
Quebec, Quebec*	29.55	750.6	29.91	759.7	2	—16.7	68	w.	.....	.....	1	.....	10 k	.....	.....	0.50	12.7	cloudy.....	Capt. Ashe, R. N
Rockliffe, Ontario*	29.30	745.7	29.88	758.9	0	—17.8	95	calm	0	0	.....	.....	10 ks	.....	w.	inap.	inap.	light snow ..	W. H. McIntyre.
Saugeen, Ontario*	29.25	742.9	30.03	762.7	11	—11.7	90	sw.	34	15.2	.....	.....	10 ks	.....	.....	0.10	2.5	light snow..	
St. Andrews, N. B	29.89	759.2	29.94	760.5	13	—10.6	90	nw.	3	1.3	.....	2 k	5 k	.....	.....	0.30	7.6	fair.....	
St. John, N. B	29.78	756.4	29.90	761.0	13	—10.6	100	nw.	9	4.0	.....	0	0	.....	.....	0	0	blue sky.....	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.57	751.1	17.6	— 8.0	.....	nw.	.....	.....	7	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	28.75	730.2	30.17	766.3	2.0	—16.7	95	w.	10	4.5	.....	0	0	.....	.....	0.050	1.3	blue sky.....	C. J. Macgregor, M. A.
Sydney, C. B*	29.71	754.6	29.78	756.4	9	—12.8	83	w.	9	4.0	.....	0	0	.....	.....	0.29	7.4	clear.....	T. C. Hill, C. E.
Toronto, Ontario*	29.69	754.1	30.11	764.8	10	—12.2	83	w.	15	6.7	.....	.....	0	.....	.....	0.02	0.5	clear.....	Magnetic Observatory.
Windsor	29.76	755.9	29.80	758.4	13.0	—10.6	.....	w.	8	3.6	.....	0	1 ks	.....	.....	0	0	fair.....	Prof. W. H. Butler. M.A
Woodstock	29.02	737.1	30.20	767.1	4.7	—15.2	62	sw.	20.0	8.9	.....	0	0	.....	.....	0	0	blue sky.....	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.91	759.7	29.98	761.5	24	— 4.4	80	nw.	5	2.2	.....	0	2 k	.....	nw.	0.12	3.0	fair	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction Upper.	Clouds. Direction Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
CAPE COLONY.																			
Cape St. Francis Lt. House	29.94	760.5	29.97	761.2	68.0	20.0	78	sw.	10.7	4.8		0	3 k			0	0	clear	John Duthie.
Springbok Fontein	27.91	708.9			91	32.8	45	se.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	24.62	625.4			20.8	— 6.2		e.			1		0					clear	
Tchang-kia-tchouang	30.39	771.8	30.50	774.6	27.9	— 2.3	92	e.			1		8			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	30.41	772.5	30.44	773.1	34.2	1.2	78	ne.	5.6	2.5			9			0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.40	772.2	30.45	773.4	32.4	0.2	80	se.	36	16			10						Oversergeant Fischer.
Fanoe	30.21	767.2	30.22	767.7	33.3	0.7	89	se.			6		9						Overlooerer Lauridsen.
Godthaab, Greenland	28.82	731.9	28.86	733.0	— 8.9	—22.7	100	nw.			2-4		10					snowing	S. Kleinschmidt.
Ivigtut, Greenland	28.80	731.5	28.82	732.0	— 8.5	—22.5		ne.			2		1						
Jacobshavn, Greenland	28.84	732.6	28.89	733.8	—14.1	—25.6		s.			2		8					snowing	
Stykkisholm, Iceland	28.67	728.1	28.71	729.2	37.6	3.1	76	se.			6		10					raining	A. O. Thorlacius.
Thorshavn	29.51	749.6	29.55	750.5	42.4	5.8	75	se.	29	13			10						Overlooerer Bergh.
Vestervig	30.20	767.1	30.29	769.4	32.7	0.4	78	e.			6		10						Loerer Oesterbol.
Upernavik, Greenland	28.93	734.9	28.98	736.1	—12.6	—24.8		e.			2		6						
FRENCH.																			
Agen, Normal School	29.36	745.8	30.02	762.5	51.1	10.6	93	sse.			1		kn		w.	0.087	2.2		M. Labroue, Director.
Alençon, Normal School	29.18	741.1	29.73	755.1	51.1	10.6	97	sse.			1		n	n.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.49	749.0	29.75	755.6	47.5	8.6	94	s.			3		10			0.295	7.5	covered	M. Fénéon, Command't.
Avignon, Normal School	30.06	763.6	30.14	765.6	55.4	13	66	n.			1					0	0		M. Giraud, Director.
Bar-sur-Seine	29.37	746.1	29.94	760.4	48.2	9.0	86	s.			1		10		sw.	0.091	2.3	light rain	M. Saillard, Director.
Beauvais, Normal School	29.51	749.6	29.78	756.3	52.7	11.5	86	s.			1		10		sw.	0.303	7.7	covered	M. Frère Eugène Marié
Besançon, Normal School	29.11	739.5	30.02	762.6	57.2	14	77	sw.			3		kn		ne.	0.098	2.5		M. Gobin, Director.
Bordeaux, Observatory	29.61	752.0	29.87	758.6	56.5	13.6	74	se.			2		8		s.	0.165	4.2	almost cov'd	M. Rayet, Director.
Bourges, Normal School	29.36	745.7	29.91	759.7	54.5	12.5	87	se.			1		10 n			0.051	1.3	raining	M. Malet, Director.
Brest, Naval Observatory	29.44	747.8	29.69	754.0	50.0	10.0	92	nw.			1		10		nw.	0.217	5.5		M. de Kermarec, Dir.
Caen, Normal School	29.58	751.3	29.65	753.2	47.1	8.4	93	nne.			2		10		nne.	0.071	1.8	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.51	749.6	29.84	757.8	39.0	3.9	90	s.			2		10			0.114	2.9	covered	M. Jadot, Director.
Charleville, Normal School	29.35	745.5	29.87	758.7	38.1	3.4	83	ese.			2		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.59	726.2	29.94	760.4	55.8	13.2	66	s.			1		10			0	0	covered	M. Allnard, Director.
Cluny, Normal School	29.17	741.0	30.03	762.7	51.4	10.8	68	se.			2		10		sw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.08	738.7	29.96	761.0	44.8	7.1	88	se.			1		10 n	se.	se.	0.067	1.7	covered	Dr. Coulet, Director.
Gap, Normal School	27.59	700.9	30.17	766.4	45.7	7.6	51	calm			0	6 c	0			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.01	736.9	30.11	764.7	53.4	11.9	63	e.			2		5		e.	0	0		M. Kina, Director.
Grenoble, Normal School	29.33	744.9	30.12	765.0	47.8	8.8	73	nw.			1	cs	0			0	0		M. Ablard, Director.
Guéret	28.36	720.4	29.92	760.0	55.8	13.2	71	w.			2		10		sw.	0.059	1.5	raining	M. Delorme, Dir.
Lamballe, Normal School	29.44	747.7	29.71	754.6	55.2	12.9	88	sw.			3		10		sw.	0.059	1.5	covered	M. Ollitrault, Director.
Lescar, Normal School	29.34	745.3	29.89	759.3	66.9	19.4	72	e.			1	5 c	0			0.087	2.2	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.59	751.5	29.69	754.1	53.2	11.8	86	ssw.			1		10	w.	wsw.	0.669	17.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.98	736.1	30.05	763.3	48.2	9.0	75	sse.			2	ck	10 n		se.	0	0	covered	M. André, Director.
Mans, Normal School	29.50	749.3	29.81	757.1	54.1	12.3	87	sw.			4		5		sw.	0.189	4.8	cloudy	M. Piboën, Director.
Marseille, Observatory	29.88	758.9	30.15	765.8	58.3	14.6	56	se.			2.3		9		s.	0	0		M. Stephan, Director.
Montlouis	24.81	630.1	29.65	753.1	44.6	7.0	69	wsw.	7.4	3.3			5	w.		0	0		M. Caré for Dr. Fines.
Montpellier, Normal School	29.97	761.2	30.10	764.5	51.1	10.6	86	nw.			2		5		se.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.14	740.2	29.95	760.6	43.5	6.4	91	ne.			1		n			0	0		M. Hasse, Director.
Nantes, Observatory	29.63	752.5	29.80	756.9	57.9	14.4	84	sse.			1-2	0	9 k; kn			0.264	6.7		M. Larocque, Director.
Perpignan, Observatory	30.02	762.4	30.13	765.3	50.4	10.2	89	ne.	1.8	0.8			10			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.16	537.6			28.9	— 1.7		sw.			1		5	ne.	sw.	0.087	2.2	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.08	738.6	30.17	766.3	46.8	8.2	65	s.			1		10	sw.	sw.	0	0	covered	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.08	637.1			39.7	4.3	97	sw.			4		8		sw.	0.031	0.8	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	29.82	757.3	29.85	758.1	54.7	12.6	86	s.			2		10		ssw.	0.20	5.	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.58	751.2	29.79	756.7	52.5	11.4	97	s.			1		5		ne.	0.256	6.5	cloudy	M. Brotier, Director.
Rodez, Normal School	27.83	706.9	30.00	762.0	46.6	8.1	91	se.			4		5			0	0	fair	M. Seger, Director.
Rouen, Normal School	29.69	754.2	29.74	755.4	54.7	12.6	87	s.			1		10	s.		0.252	6.4	covered	M. Mouillot.
Saint Lô					55.8	13.2	88	sw.			1		10		sw.	0.031	0.8	light rain	M. Delaplanche, Dir.
Saint Maur, Observatory	29.67	753.6	29.84	757.8	51.8	11.0	93	ssw.			1		10		sw.	0.142	3.6		M. Renou, Director.
Toulouse, Observatory	29.20	744.0	30.02	762.4	55.8	13.2	72	sse.			6		5	w.		0.114	2.9	cloudy	M. Bailland, Director.
Tours	29.66	753.3	29.84	757.8	56.5	13.6	82	s.			2		5	wsw.	sw.	0.350	8.9	cloudy	M. de Tastes.
Versailles, Observatory	29.33	745.0	29.82	757.5	51.4	10.8	90	sw.			3					0.185	4.7		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.73	755.2	29.88	759.0	65.7	18.7	53	w.	13.9	6.2			8 k	w.	w.	0.075	1.9		M. Cartier, Director.
GERMAN.																			
Ansbach	28.67	728.3	30.20	767.0	33.1	0.6	75	se.			4		10	se.		0	0		Prof. Jnedt.
Bamberg	29.28	743.6	30.12	765.1	32.9	0.5	69	calm			0	4 ck	0	w.		0	0		Prof. Dr. Hoh.
Berlin	30.19	766.9	30.34	770.7	35.1	1.7	57	e.			3		8			0	0		Meteorological Institute.
Breslau	29.85	758.3	30.39	772.0	32.9	0.5	90	se.			2		10			0	0		Royal University Obs'y
Carlsruhe	29.62	752.3	30.10	764.4	37.8	3.2	87	ne.			1		10	sw.		0.134	3.4	raining	Albert Senz.
Cassel	29.38	746.2	30.09	764.3	37.0	2.8	62	se.			2		6	s.		0.039	1.0		Dr. H. Möhl.
Frankfort-on-the-Main	29.75	755.6	30.14	765.5	36.0	2.2	61	e.			1		10			0.185	4.7		Physical Society.
Friedrichshafen	28.63	727.2	30.12	765.0	38.5	3.6	87	se.			3		10	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	30.17	766.4	30.26	768.7	33.1	0.6	73	ese.			6		6			0	0		E. Preller.
Kiel	30.28	769.0	30.29	769.4	34.2	1.2	75	ese.			5		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.84	757.8	30.28	769.1	29.8	— 1.2	73	ese.			2		0			0	0		H. Leppig, Asst.
Magdeburg	30.06	763.6	30.26	768.7	33.1	0.6	78	e.			2		0			0.043	1.1		Dr. Assmann.
Memel	30.64	778.3	30.69	779.5	22.5	— 5.3	88	ese.			4		10 s						Issermann.
Munich	28.28	718.3	30.15	765.8	32.4	0.2	87	se.			1		10			0.012	0.3	snowing	Central Station.
Neufahrwasser	30.59	777.0	30.61	777.4	27.9	— 2.3	85	ne.			2		10			0	0		A. Lothes.
Neustadt, Palatinate	29.53	750.0	30.06	763.4	33.8	1.0	87	calm			0		10			0.106	2.7		Dicknether.
Stuttgart	29.11	739.4	30.04	762.9	38.3	3.5	67	s.			1		10			0.075	1.9	raining	Prof. Dr. Schoder.
Wustrow	30.38	771.6	30.40	772.2	34.0	1.1	79	ese.			3		10 8			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.76	755.9	30.15	765.7	58.8	14.9		w.			1.0		8			0.012	0.3	misty	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	30.00	762.0	30.05	763.3	76.0	24.4	52	wsw.	14.0	6.3			0			0	0	blue sky	
Deesa	29.46	748.4	29.94	760.5	80.2	26.8	17	nne.	14.0	6.3			2	sw.		0	0	d. clouds	
Bombay	29.90	759.4	29.94	760.4	77.9	25.5	62	nnw.	18.0	8.0			0			0	0	blue sky	
Poona, Yarrowda	28.02	711.6	29.84	758.0	87.0	30.6	26	e.	12.0	5.4			3		w.	0	0	d. clouds	
Belgaum	27.34	694.5	29.84	758.0	84.6	29.2	26	wsw.	2.0	0.9			5	w.		0	0	d. clouds	
Lahore	29.27	743.5	30.04	763.1	64.6	18.1	44	calm	0	0			0			0	0	blue sky	
Roorkee	29.05	737.9	29.98	761.6	64.8	18.2	49	calm	0	0			0			0	0		
Agra	29.40	746.8	29.98	761.6	72.2	22.3	28	nw.					0			0	0	blue sky	
Nagpur	28.83	732.2	29.86	758.4	87.5	30.8	23	ssw.	6.0	2.7			0			0	0	blue sky	
Jubbulpore	28.54	725.0	29.90	759.3	82.5	28.1	28	nw.	4.0	1.8			2		nw.	0	0	d. clouds	
Lucknow	29.59	751.6	29.98	761.5	64.3	17.9	60	calm	1.0	0.4			0			0	0	blue sky	
Allahabad	29.63	752.6	29.95	760.8	67.8	19.9	47	calm	0	0			0			0	0	blue sky	
Patna	29.75	755.6	29.94	760.5	66.6	19.2	55	nw.	2.1	0.9			2	nw.	nw.	0	0		
Hazaribagh	27.89	708.5	29.96	761.0	64.5	18.1	22	nw.	4.9	2.2			0			0	0		

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.84	758.0	29.93	760.1	78.4	25.8	51	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	29.92	759.9	29.94	760.4	73.2	22.9	43	wsw.	0.5	0.2			0			0	0	blue sky	
Dhubri	29.79	756.7	29.91	759.8	69.4	20.8	58	calm	0.2	0.1			0			0	0	blue sky	
Chittagong	29.87	758.6	29.96	761.0	66.6	19.2	69	sw.	2.9	1.3			0			0	0	blue sky	
Sibsagar	29.61	752.1	29.96	760.9	64.3	17.9	77	sw.	2.0	0.9			8	sw.	sw.	0	0	d. clouds	
Jeypore	28.51	724.1	29.97	761.2	74.7	23.7	38	nw.	4.0	1.8			0			0	0	blue sky	
Bellary	28.41	721.6			87.2	30.7	31	se.	4.	1.8		5 c	0			0	0	d. clouds	
Trichinopoly	29.66	753.4			85.3	29.6	41	e.	2.	0.9			2			0	0	blue sky	
ITALIAN.																			
Udine	29.89	759.1	30.31	769.8	40.1	4.5	54	calm	0	0			10						Prof. Giovanni Clodig.
Milan	29.78	756.3	30.30	769.9	42.1	5.6	69	se.	3.1	1.4			10	ne.		0	0		Prof. Schiapparelli.
Padua	30.18	766.6	30.30	769.5	39.9	4.4	86	nne.	5.6	2.5			10	nw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.35	745.4	30.29	769.4	41.2	5.1	86	se.	0.7	0.3			10			0	0		Prof. F. F. Denza.
Genoa	30.05	763.3	30.25	768.3	46.8	8.2	67	ne.	3.1	1.4			10	ne.		0.189	4.8		Prof. G. M. Garibaldi.
Mondovi	28.30	718.9	30.29	769.4	40.1	4.5	71	w.			2		8			0	0		Prof. D. C. Bruno.
Pesaro	30.29	769.4	30.34	770.7	45.0	7.2	71	e.	4.9	2.2			4			0	0		Prof. Luigi Guidi.
Florence	29.99	761.8	30.25	768.4	50.4	10.2	51	e.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	30.07	763.7	30.15	765.9	50.0	10.0	55	ene.	6.9	3.1			10	sw.		0	0		Prof. P. Monte.
Rome	30.04	763.1	30.22	767.6	54.7	12.6	50	wnw.	0	0			1			0	0		Prof. P. Tachini.
Lecce	29.99	761.7	30.25	768.3	51.6	10.9	63	ene.	9.8	4.4			7	n.		0.007	1.7		Prof. C. de Giorgi.
Cosenza	29.34	745.2	30.24	768.2	53.6	12.0	76	nw.	2.5	1.1			9	w.		0.173	4.4		Prof. D. Conti.
Cagliari	30.06	762.0	30.20	767.0	60.4	15.8	64	calm			0		3			0	0		Prof. A. Pacinotti.
Palermo	30.00	762.1	30.26	768.5	60.3	15.7	49	ne.	5.6	2.5			3			0	0		Prof. G. Cacciatore.
Syracuse	30.16	766.0	30.20	767.1	58.1	14.5	67	s.	6.3	2.8			2	wnw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.71	754.5	30.24	768.1	53.6	12.0	60	ne.	2.5	1.1			1			0	0		Prof. F. Brioschi.
Stelvio	22.11	561.6			24.4	— 4.2	77	w.			2		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.13	562.0			24.6	— 4.1	68	e.			6		3			0	0	misty	Prof. P. F. Denza
JAPANESE.																			
Akita	29.97	761.1	30.00	761.9	20.1	— 6.6	66	calm			0	0	0			0.071	1.8	clear	H. Rattori.
Awomori	29.96	761.0	30.00	762.0	19.1	— 7.2	97	ssw.	7.5	3.7			10 n			0.248	6.3	snowing	K. Ogawa.
Hakodate	29.98	761.4	29.99	761.7	21.0	— 6.1	100	n.	2.4	1.1			10			0	0	overcast	
Hamamatsu	30.01	762.2	30.04	762.9	36.6	2.6	67	calm			0	0	0			0	0	clear	
Kagoshima	30.25	768.4	30.26	768.7	36.0	2.2	91	n.			2	0	0			0	0	clear	G. Miyanonasa.
Kioto	30.00	762.1	30.19	766.8	32.9	0.5	85	wnw.	6.5	2.9		0	2 8			0.011	0.3	clear	M. Tojima.
Kochi	30.18	766.6	30.20	767.1	40.2	4.6	59	n.	11.7	5.2		0	0			0	0	clear	K. Kusunose.
Misaka	30.22	767.6	30.25	768.3	38.7	3.7	80	calm			0	0	0			0.008	0.2	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.06	763.5	30.27	768.9	39.2	4.0	88	n.	1.8	0.8		0	1 8			0.010	0.2	clear	S. Takehayashi.
Niigata	29.97	761.2	30.01	762.2	33.8	1.0	84	n.	8.2	3.7			10 n			0.350	8.9	light snow	M. Morita.
Nobiru	29.91	759.8	29.93	760.2	22.8	— 5.1	88	n.	10.3	4.6		0	8 s			0.040	1.0	cloudy	H. Midzushina
Numazu	29.89	759.3	29.93	760.2	36.9	2.7	70	calm			0	0	0			0	0	clear	R. Kaneda.
Osaka	30.20	767.0	30.21	767.4	33.1	0.6	68	nw.	7.6	3.4		0	0			0	0	clear	H. Omura.
Sakai	30.23	767.8	30.24	768.1	35.5	1.9	66	ne.			2	0	0			0.043	1.1	clear	K. Yamawchi.
Sapporo					14.0	—10.1	85	calm	0	0			10					snowing	
Tokei Obs'y, Yeddo	29.96	758.4	29.94	760.5	32.0	0.0	100	wnw.	4.0	1.8		0	0			0	0	clear	The Staff.
Wakayama	30.17	766.2	30.22	767.6	30.1	2.3	72	nnw.	6.1	2.7		3 ck	5ck;k8		n.	0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.67	753.6	29.86	758.4	82.4	28.0	73	ne	21.0	9.4		0	7 kn		nne.	0.17	4.3	fair	Oliver & Figon.
MEXICAN.																			
Altata					55	12.8	93	nw.										clear	H. Diaz Pena.
Guanajuato	23.71	602.2	29.93	760.2	53.2	11.8	90	sse.	lmp.	lmp.		1 c	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.34	618.2	30.04	763.0	54.3	12.4	83	ese.			1	0	5 ck		se.	0	0	cloudy	Prof. M. Lexl.
Mazatlan	29.70	754.2	29.96	760.9	62.0	16.7	83	e.	1.6	0.8		1 c8	0			0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.14	587.7	30.31	769.9	45.9	7.7	80	nw.	4.2	1.9		0	0			0	0		The Staff.
Morelia	24.33	618.0	30.30	769.5	51.8	11.0	67	e.			1	0	0			0	0	clear	M. Tena, M. D.
Pabellon	23.99	609.2	30.03	762.7	55.9	13.3	68	n.			1	0	0			0	0	fine	
Puebla, Catholic Institute	23.43	595.0	30.38	771.6	41.9	5.5	81	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
Zacatecas	22.55	572.8	30.25	768.3	49.0	9.8	51	e.	4.9	2.2		0	0			0	0	fine	I. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.83	757.6	29.83	757.6	38.7	3.7		ese.			4					0.008	0.2		
Groningen	29.99	761.8	30.05	763.2	34.0	1.1		se.			5					0	0		
Helder																0.437	11.1		
Hellevoetsluis	29.83	757.6	29.83	757.6	34.5	1.4	91	e.			3					0.295	7.5		
Utrecht	29.88	759.0	29.93	760.2	34.7	1.5	72	ese.			5		10			0.331	8.4	dull	H. van der Brink
Sub-series.																			
Batavia, Java	29.83	757.6			73.0	22.8	90	wnw.	0	0			10			2.56	65.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.20	767.1	30.26	768.7	33.4	0.8	44	s.	4	2			0			0	0		
Brono	30.32	770.1	30.36	771.1	38.5	3.6	41	ene.			6		8			0	0		
Christiania	30.48	774.2	30.64	778.3	20.1	— 6.6	87	ene.	9	4			10			0.016	0.4	snowing	
Gjæsvær	30.38	771 7	30.41	772.3	37.0	2.8		w.			2		2						
Lodingen	30.35	770.8	30.39	772.0	27.3	— 2.6	72	ne.			1		1			0	0		
PORTUGUESE.																			
Angra, Azores	30.15	765.8	30.31	769.9	52.2	11.2	71	wnw.	13.0	6.1			3			0.374	9.5		Dr. J. A. Sampaio.
Campo Major	29.99	730.4	30.00	762 0	55.2	12.9	96	ssw.	21.7	9.7			10			0.091	2.3		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.17	766.2	30.25	768.4	64.4	18.6	62	se.	6.3	2.8			3	nw.		0.157	4.0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.50	750.7	29.91	759.8	58.6	14.8	88	ssw.	20.2	11.7			10			0.181	4.6		The Staff.
Ponta Delgada, Azores	30.27	768 8	30.34	770.6	56.8	13.8	57	nw.	7.4	3.3			4			0.520	13.2		
Saint Paul de Loando	29.73	755.2	29.93	760.3	81.5	27.5	82	w.	0.7	0.3			10			0	0		
Serra da Estrella	25.08	637.0	29.84	757.9	42.1	5.6	95	se.	42.3	18.9			10			1.535	39.0	rain & sleet	
RUSSIAN.																			
Akmolinski	28.83	732 3	30.02	762.4	5.5	—14.7	91	calm	0	0			10 n			0.020	0.5		Major K. Lasarew.
Archangel	30.45	773.4	30.47	773.9	10.5	— 8.6	88	w.	4	2		2 c8	0			0	0		Capt. Sselliwerstow.
Ashuradа	30.25	768.3	30.15	765.9	47.5	8.6	79	wnw.	11	5		0	5 k8			0	0	light clouds	
Astrakhan	30.47	773.8	30.38	771.7	20.1	— 6.6	58	nne.	16	7		0	3 k8			blank	blank		Capt. Wisganow.
Baku	30.29	769.4	30.24	768.2	41.7	5.4	83	nnw	9	4		0	7 k8			0	0		
Barnaul	29.58	751.3	30.13	765.2	8.6	—13.0	85	sw.	4	2			10			0.047	1.2		Meteorological Obs'y.
Bielosersk	30.09	764 2	30.61	777.6	2.8	—16.2	96	wnw.	4	2		0	0			0	0		
Dorpat	30.50	770.2	30.84	783.2	7.9	—13.4	100	ese.	2	1		0	0			0	0		Observatory.
Ekaterinburg	29.06	738.1	30.12	765.1	3.4	—15.9	85	w.	9	4			10			lmp.	lmp.	light snow	Meteorological Obs'y.
Ellsawetgrad	30.00	763.6	30.55	776.0	19.4	— 7.9	88	n.	4	2			10 n			lmp.	lmp.		
Irkutsk	28.35	720.1	30.15	765 9	5.5	—14.7	74	se.			2		10			0	0		
Kasalinsk	29.35	750.0	29.71	754.5	10.8	—11.8	70	calm	0	0		10 c	0						
Kasan	30.17	766.2	30.47	773.8	9.1	—12.7	73	s.	2	1			10			0.004	0.1	light snow	Observatory.
Kem	30.53	775.4	30.58	776.7	9.7	—12.4	77	w.	9	4		0	0			0	0		
Kertch	30.20	768.6	30.28	769.1	32.4	0.2	92	ene.	4	2			10 n			0	0		Lagorio & Sastyrez.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
Russian.—Continued.																			
Kieff	29.92	760.0	30.63	777.9	14.5	— 9.7	87	ene.	9	4			10 n			0.004	0.1	light snow..	Observatory.
Koslov	30.06	763.5	30.63	778.1	22.8	— 5.1	84	calm	0	0			10 s			0	0		
Liban	30.66	778.8	30.69	779.4	26.6	— 3.0	70	e.	4	2			0			0	0		**E. Quaas.**
Lugan	30.30	769.7	30.51	774.9	17.1	— 8.3	63	ene.	22	10			10			inap.	inap.		Meteorological Obs'y.
Moscow	30.08	764.1	30.61	777.6	17.8	— 7.9	82	w	4.5	2		0	2 ks			0	0		**Meteorological Obs'y**
Nikolaiev	30.36	771.1	30.43	773 0	27.3	— 2.6	89	ne.	40	18			10 n			0	0	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.41	772.3	30.49	774.5	—20.6	—29.2	70	calm	0	0			0			0	0		**Iwanow.**
Pekin, China	30.35	770.8	30.50	774.6	24.3	— 4.3	60	se.	4	2		0	2 k			0	0		**Physical Observatory.**
Petro-Alexandrovsk	29.84	757.8	30.21	767.3	29.3	— 1.5	76	w.	4	2		10 c	0			0	0		
Petrozavodsk	30.40	772.1	30.61	777.6	11.1	—11.6	71	nw.	11	5		0	0			0	0		**Dr. Bergmann.**
Pinsk	30.10	764.5	30.64	778.3	19.0	— 7.2	81	ene.	18	8			10 s			blank	blank		
Poti	30.13	765.3	30.15	765.8	42.4	5.8	94	e.	4	2			10 n			0.079	2.0	raining	
St. Petersburg	30.72	780.4	30.74	780.8	3.2	—16.0	95	wnw.	9	4		0	0			0	0		Central Physical Obs'y.
Samarkand	27.62	701.5	30.18	766.6	36.1	2.3	63	se.	18	8		0	0						
Semipalatinsk	29.49	749.1	30.20	767.1	12.9	—10.6	92	calm	0	0			10						Major Lasarew.
Sevastopol	29.99	761.7	30.22	767.6	37.6	3.1	76	n.	7	3			10 n			0	0		
Staroi Bykhov	30.24	768.2	30.75	781.0	17.8	— 7.9	74	e.	7	3			10			inap.	inap.	light snow..	
Tashkend	28.48	723.4	30.23	767.8	35.8	2.1	47	calm	0	0		0	6 k			0	0		**Terch, A. M.**
Tiflis	28.74	730.0	30.20	767.1	43.2	6.2	63	se.	4	2			10					light rain	Physical Observatory.
Vernoe	27.44	697.0	30.10	764.6	21.7	— 5.7	61	w.	4	2		0	0						
Viatka					20.7	— 6.3		w.	4	2			2			0	0		
Vladivostock	30.28	769.1	30.35	770.8	3.2	—16.0	40	n.	9	4			0			0	0		
Warsaw	30.08	764.3	30.54	775.8	28.0	— 2.2	77	ese.	16	7			10			blank	blank		Astronomical Obs'y.
Wilna	30.27	768.8	30.72	780.4	21.9	— 5.6	87	ese.	2	1			1			0	0	light clouds	**Berg, Assistant.**
Yeniseisk	29.69	754.2	30.01	762.3	2.3	—16.5	83	w.	4	2			7			0	0		**M. O. Marks.**
Scottish.																			
Monach Lt			29.38	746.2	39	3.9	91	sse.			6		10			0.4	10.	sleeting.	J. Youngclauss.
North Unst			29.73	755.1				s.			9		10						Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.00	762.0	30.11	764.7	57.7	14.3	69	se.	3.4	1.5		3 c	0			0	0	misty.	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.77	756.1	29.83	757.6	66.2	19.0	57	sw.	6.0	2.7			10			0.067	1.7	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.97	685.0	29.93	760.2	52.9	11.6	72	s.	14.3	6.4		1	2	n.		0.311	7.9	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.4	30.11	764.7	53.8	12.1	78	s.	23.0	10.3			10			0.039	1.0	covered	The Staff.
Murcia, Met. Obs'y	29.97	761.2	30.11	764.8	61.7	16.5	77	sw.	2.0	0.9		3	4	e.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	28.91	734.2	29.76	755.9	62.6	17 0	90	s.	8.1	3.6		9 k	4 n	w.	w.	0.736	18.7	covered	R. Gil Villanueva, Dir.
Santiago, Met. Obs'y	28.74	729.9	29.64	752.8	47.3	8.5	99	n.	18.1	8.1		10				3.016	76.6	raining	
Sub-series.																			
Manilla, Philippine Islands	29.91	759.8	29.97	761.3	76.9	24.9	79	nne.	6.6	3.0			2 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.11	764.8	30.21	767.4	60.1	15.6	82	se.	12.4	5.6		0	7		s.	0.521	13.2		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.10	764.5	30.19	766.8	72.0	22.2	98	se.	9.4	4.2		4 k	8 kn	se.	se.	0.354	9.0	raining	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	30.65	778.4	30.69	779.4	— 8.7	—22.6	100	calm			0		0			0	0		
Umea	30.71	780.1	30.76	781.4	12.0	—11.1	89	calm			0		0			0	0		
Hernosand	30.72	780.4	30.78	781.7	14.4	— 9.8	94	calm			0		10			0	0		
Stockholm	30.54	775.7	30.72	780.2	26.6	— 3.0	78	e.			2		10			0	0		
Wisby	30.58	776.7	30.64	778.2	30.2	— 1.0	76	ese.			2		0			0	0		
Sub-series.																			
Upsala	30.63	778.1	30.72	780.3	23.7	— 4.6	98	ene.	3.8	1.7			10			0	0		S. G. Fineman.
Swiss.																			
Geneva	28.65	727.7	30.09	764.2	50.0	10.0	57	ssw.			2		9			0	0	covered	**The Observatory.**
Turkish.																			
Constantinople			30.21	767.3	41.9	5.5	87	n.	15	6.5			10		n.	0.331	8.4		The Observatory.
Valona			30.25	768.4	55.0	12.8		ne.			1		5			0.04	1.	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.10	764.5	64.4	18.0	63	w.			1		2 k		ne.	0	0		Prof. C. V. A. van Dyck.
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	30.05	763.3	30.14	765.5	21	— 6.1	70	s.	2	0.9		4 c	1 s	w.	w.	0.02	0.5	fair	J. O. Barnes.
Alpena, Michigan	29.24	742.7	29.95	760.7	9	—12.8	76	w.	13	5.8		0	4 s		w.	0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.13	638.3	30.23	767.8	18	— 7.8	61	e.	2	0.9		0	0			0	0	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	27.36	694.9	30.40	772.1	10	—12.2	80	sw.	4	1.8		0	6 s		sw.	inap.	inap.	fair	B. O. Lenoir.
Atlanta, Georgia	29.07	738.4	30.29	769.4	34.0	1.1	88	nw.	21	9.4			10 s		nw.	0.15	3.8	cloudy	H. C. Smyth.
Atlantic City, New Jersey	30.18	766.6	30.19	766.8	28	— 2.2	54	nw.	6	2.7		8 cs	0			0.29	7.4	cloudy	Jas. M. Watson.
Augusta, Georgia	30.02	762.5	30.22	767.6	61	16.1	72	w.	2	0.9			10 s		sw.	0.21	5.3	cloudy	John Healy.
Baltimore, Maryland	30.19	766.8	30.24	768.1	34	1.1	71	ne.	1	0.4		7 ck	fg.	w.		0	0	fair	Geo W Feiger.
Barnegat, New Jersey	30.18	766.6	30.20	767.1	28.0	— 2.2	64	nw.	14	6.3		9 ck	0	w.		0.19	4.8	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.89	759 2	29.91	759.7	22.4	— 5.3		n.	30	13.4			10 n			0.01	0.3	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28:57	725.7	30.30	769.6	16	— 8.9	70	sw.	6	2.7		0	2 s		sw.	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.42	696.5	30.42	772.7	13	—10.6	66	calm	0	0			10 s			0.21	5.3	cloudy	S. Wheaton.
Billings, Montana	26.90	683.2			9	—12.8	67	w.	12	5.4			10 s			0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.20	716.3	30.18	766.6	8	—13.3	80	nw.	16	7.2		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.11	764.8	30.14	765.5	26	— 3.3	64	n.	10	4.5		0	0			0.38	9.7	clear	J. T. Elker.
Boise City, Idaho	27.53	699.2	30.49	774.4	2	—16.7	87	ne.	3	1.3			10 s			0	0	cloudy	B. E. Light.
Boston, Massachusetts	29.92	760.0	30.08	764.0	26.0	— 3.3	51	w.	9	4.0		0	sk.			0.26	6.6	clear	O. B. Cole.
Brownsville, Texas	30.21	767.3	30.26	768.6	43.3	6.3	98	n.	10	4.5			fg.			0.19	4.8	dense fog	M. McCarty.
Buffalo, New York	29.39	746.5	30.19	766.8	7	—13.9	81	sw.	43	19.2		0	1 ks		sw.	0.02	0.5	clear	W. Finn.
Buford, Fort, Dakota	28.09	713 5	30.27	768.8	5	—15.0	76	w.	11	4.9		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.66	753 4	29.97	761.2	23.3	— 4.8	72	s.	9	4.0			10 s		w.	0.02	0.5	cloudy	D. N. Farnell.
Cairo, Illinois	30.08	764.0	30.50	774.7	23.0	— 5.0	73	calm	0	0		0	5 s			inap.	inap.	fair	W. H. Ray.
Cape Henry, Virginia	30.22	767.6	30.24	768.1	40	4.4	73	nw.	15	6.7			10 s		sw.	1.36	34.5	cloudy	A. K. Alderson.
Cape May, New Jersey																			W. E. Smith.
Cape Mendocino, California																			J. J. McLean.
Cedar Keys, Florida	30.21	767.3	30.23	767.8	67	19.4	90	sw.	4	1.8		0	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.53	750.0	30.40	772.1	12.0	—11.1	61	sw.	11	4.9		0	hz.			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.09	764.3	30.15	765.8	61	16.1	93	sw.	5	2.2		0	7 s; fg		sw.	0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.34	745.2	30.23	767.8	47.0	8.3	63	ne.	11	4.9			10 s		sw.	0.09	2.3	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.52	749.8	30.38	771.6	33.5	0.8	64	nw.	10	4.5			10 s		nw.	0.17	4.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.97	608.8	30.22	767.6	— 4.6	—20.3	41	nw.	1	0.4		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.52	749.8	30.27	768.8	9.2	—12.7	54	sw.	11	4.9		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.20	767.1	30.22	767.6	33	0.6	60	ne.	17	7.6		3 k	2 ks	nw.		0.05	1.3	fair	C. F. Dickens.
Cincinnati, Ohio	29.75	755.6	30.44	773.2	23	— 5.0	73	w.	4	1.8		c	3 k		w.	inap.	inap.	clear	R. B. Watkins.
Cleveland, Ohio	29.53	750.0	30.32	770.1	11.7	—11.3	75	sw.	8	3.6		0	0			0.01	0.3	clear	J. B. Newlin.
Coleman City, Texas	28.45	722.6	30.33	770.4	29	— 1.7	88	e.	1	0.4		10 cs	0			0	0	cloudy	L. Dorman.
Columbus, Ohio	29.49	749.0	30.39	771.9	16	— 8.9	83	w.	8	3.6		0	0			0.01	0.3	clear	D. Cuthbertson.
Concho, Fort, Texas	28.30	718.8	30.32	770.1	31.0	— 0.6	74	ne.	8	3.6			10 s			0	0	cloudy	J. McGlone.
Davenport, Iowa	29.62	752.3	30.32	770.1	9	—12.8	55	w.	7	3.1		0	hz.			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25 25	641.3	30.21	767.3	46	7.8	58	calm	0	0			10 s			0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.64	727.4	30.45	773.4	— 7	—21.7	78	sw.	3	1.3		0	0			0.01	0.3	clear	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.42	645.7	30.34	770.6	10	—12.2	83	nw.	3	1.3		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.19	766.8	30.21	767.3	31	— 0.6	78	n.	20	8.9		4 ck	2 k	w.		0.18	4.6	fair	T. S. Townsend.
Denison, Texas	29.59	751.6	30.43	772.9	23.0	— 5.0	88	n.	4	1.8			10 s			0	0	cloudy	J. W. Byram.
Denver, Colorado	24.72	627.9	30.24	768.1	— 4.0	—20.0	87	se.	1	0.4		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.35	745.5	30.32	770.1	9	—12.8	55	w.	7	3.1		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.49	749.0	30.24	768.1	11.4	—11.4	87	sw.	11	4.9		0	0			0.01	0.3	clear	E. R. Brace.
Dodge City, Kansas	27.60	701.0	30.34	770 6	6	—14.4	100	calm	0	0		0	0			0	0	clear	V. P. Temple.
Dubuque, Iowa	29.48	748.8	30.24	768.1	6.2	—14.3	52	sw.	5	2.2		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.14	740.1	29.95	760.7	6	—14.4	76	s.	5	2.2		0	3 s		sw.	0	0	clear	N. B. Couger.
Eagle Pass, Texas	29.51	749.5	30.35	770.9	39.0	3.9	65	ne.	3	1.3			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.41	645.4	30.31	769.9	—10	—26.7	100	n.	4	1.8		6 cs	0			0	0	fair	J. M. Clifford.
Eastport, Maine	29.90	759.4	29.96	761.0	16.5	— 8.6	74	w.	4	1.8		2 ck	6 s	w.	w.	0.11	2.8	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.46	697.5	30.36	771.1	15	— 9.4	51	s.	8	3.6		6 c	0	s.		0	0	fair	W. J. Caudall.
El Paso, Texas	26.26	667.0	30.14	765.5	39.0	3.9	38	calm	0	0		0	6 s			0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.50	749.3	30.26	768.6	12	—11.1	80	sw.	14	6.3		0	0			0.12	3.0	clear	Peter Wood.
Escanaba, Michigan	29.21	741.9	29.93	760.2	3.0	—16.1	79	s.	0	2.7		0	3 s			0	0	clear	George Heathcote.
Fredericksburg, Texas	28.62	726.9	30.42	772.7	35	1.7	72	ne.	2	0.9			10 s			0	0	cloudy	Frank Halwegler.
Galveston, Texas	30.25	768.3	30.30	769.6	39	3.9	100	ne.	17	7.6			10 n			0.06	1.5	heavy rain	E. O'C. MacInernay.
Grand Haven, Michigan	29.43	747.5	30.14	765.5	21.5	— 5.8	76	sw.	28	12.5		0	4 ks		sw.	0.01	0.3	fair	J. E. Mueller.
Grant, Fort, Arizona	25.29	642.4	30.15	765.8	35	1.7	61	nw.	5	2.2			10 s			0	0	cloudy	Robert O. Lord.
Hatteras, North Carolina	30.14	765.5	30.16	766.1	43	6.1	100	ne.	34	15.2			10 n		ne.	0.14	3.6	light rain	R. M. Crawford.
Helena, Montana	25.90	657.8	30.30	769.6	10	—12.2	100	calm	0	0			10 n		calm	0.02	0.5	light snow	N. C. Smith.
Henrietta, Texas	29.35	745.5	30.40	772.1	21	— 6.1	84	e.	8	3.6			10 s			0	0	cloudy	J. P. Sherry.
Huron, Dakota	28.73	729.7	30.25	768.3	9	—12.8	55	sw.	19	8.5		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.56	750.8	30.40	772.1	11	—11.7	80	sw.	4	1.8		0	0			0.03	0.8	clear	O. F. R. Wappenhans.
Indianola, Texas	30.28	769.1	30.31	769.9	37.0	2.8	100	n.	19	8.5			10 s			inap.	inap.	cloudy	I. A. Reed.
Jacksboro, Texas	29.20	741.7	30.44	773.2	24	— 4.4	61	ne.	4	1.8			10 s			0	0	cloudy	D. J. Carr.
Jacksonville, Florida	30.17	766.3	30.22	767.6	68	20.0	90	sw.	2	0.9		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.62	701.5	30.30	769.6	14	—10.0	83	w.	15	6.7		0	2 s		w.	0	0	clear	A. Schneider.
Keokuk, Iowa	29.64	752.8	30.34	770.6	11.0	—11.7	70	sw.	6	2.7		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.16	766.1	30.18	766.6	73.0	22.8	90	e.	7	3.1		0	3 k		se.	0.01	0.3	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.20	767.1	30.22	767.6	39	3.9	89	ne.	30	13.4			10 n		ne.	0.43	10.9	light rain	H. Mc P. Baldwin.
Knoxville, Tennessee	29.31	744.5	30.39	771.9	27.5	— 2.5	70	n.	9	4.0			10 s			0.29	7.4	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.31	744.5	30.15	765.8	9	—12.8	76	s.	8	3.6		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.48	748.8	30.43	772.9	12	—11.1	80	calm	0	0		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.64	752.8	30.51	774.9	6.5	—14.2	76	se.	1	0.4			10 n			0.01	0.3	light snow	W. Bell.
Little Rock, Arkansas	30.12	765.0	30.45	773.4	29	— 1.7	77	ne.	8	3.6			10 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.75	755.6	30.15	765.8	43	6.1	53	ne.	12	5.4		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.84	757.9	30.44	773.2	26	— 3.3	64	w.	4	1.8		0	5 s			0	0	fair	L. M Dey.
Lynchburg, Virginia	29.54	750.3	30.26	768.6	38	3.3	53	nw.	7	3.1		0	5 s		nw.	0.02	0.5	fair	Louis Duane.
Mackinaw City, Michigan	29.18	741.2	29.88	758.9	14.0	—10.0	80	sw.	20	8.9			10 n		sw.	inap.	inap.	light snow	F. R. Day.
Macon, Fort, North Carolina	30.12	765.0	30.13	765.3	45.0	7.2	100	ne.	21	9.4			10 n		ne.	0.18	4.6	light rain	William Daly.
Madison, Wisconsin	29.09	738.9	30.18	766.6	7	—13.9	76	sw.	10	4.5		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.66	651.8	30.20	767.1	9	—12.8	60	nw.	28	12.5			10 s		nw.	0.02	0.5	cloudy	F. Burke.
McKavett, Fort, Texas	27.96	710.2	30.34	770.6	32	0.0	81	se.	4	1.8			10 s			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.05	737.9	29.83	757.7	6	—14.4	76	s.	7	3.1		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	30.12	765.0	30.46	773.7	24	— 4.4	73	n.	2	0.9		0	4 s			inap.	inap.	fair	D. T. Flannery
Milwaukee, Wisconsin	29.35	745.5	30.15	765.8	8	—13.3	70	w.	22	9.8		0	0			0	0	clear	W. Line.
Missoula, Fort, Montana	26.92	683.8	30.34	770.6	— 3	—19.4	68	calm	0	0		0	0			0.03	0.8	clear	I. H. Young.
Mobile, Alabama	30.26	768.6	30.30	769.6	48	8.9	77	n.	11	4.9			10 s		n.	0.04	1.0	cloudy	C. A. Read.
Montgomery, Alabama	30.07	763.8	30.31	769 9	43.0	6.1	86	nw.	10	4.5			10 s		nw.	0.03	0.8	cloudy	J. B. McLaughlin
Moorhead, Minnesota	28.94	735.1	30.04	763.0	4	—15.6	72	w.	8	3.6		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.32	744.7	30.39	771.9	27.0	— 2.8	59	w.	21	9.4		0	6 s		w.	0.02	0.5	clearing	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.19	589.0	29.81	757.2	— 7.0	—21.7	100	nw.	68	30.4			fg.		nw.	0.23	5.8	dense fog	S. W. Beall.
Nashville, Tennessee	29.84	757.9	30.45	773.4	23.5	— 4.7	67	n.	4	1.8		6 cs	0	w.		0.01	0.3	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.03	762.7	30.15	765.8	22.5	— 5.3	66	nw.	4	1.8		0	0			0.14	3.6	clear	J. H. Sherman.
New London, Connecticut	30.12	765.0	30.17	766.3	26	— 3.3	76	nw.	2	0.9		0	0			0.09	2.3	clear	J. G. Lynch.
New Orleans, Louisiana	30.18	766.6	30.24	768.1	53.0	11.7	77	ne.	10	4.5			10 s		ne.	0.01	0.3	cloudy	L. Dunne.
Newport, Rhode Island	30.07	763.8	30.12	765.0	26.3	— 3.2	66	w.	11	4.9		0	0			0.59	15.0	clear	W. McGillivray.
New York, New York	30.02	762.5	30.21	767.3	26	— 3.3	70	w.	3	1.3		2 cs	0			0.08	2.0	clear	J. B. Merrill.
Norfolk, Virginia	30.21	767.3	30.23	768.1	41	5.0	73	ne.	6	2.7		6 ck	0	w.		1.00	25.4	fair	Wm. Davis.
North Platte, Nebraska	27.28	692.9	30.38	771.6	— 7.4	—21.9	72	w	6	2.7		0	0			0	0	clear	E. F. Brady.
Olympia, Washington Ty.	30.32	770.1	30.36	771.1	29.0	— 1.7	77	calm	0	0			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	29.11	739.4	30.38	771.6	7.5	—13.6	65	calm	0	0		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska	30.30	769.6	30.32	770.1	— 2.5	—19.2		wsw.	48	21.5			0			0.03	0.8	clear	P. H. Ray.
Oswego, New York	29.73	755.1	30.08	764.0	20.5	— 6.4	76	w.	21	9.4		0	10 k	w.		0.03	0.8	cloudy	J. G. Linsley.
Palestine, Texas	29.79	756.7	30.37	771.4	30.5	— 0.8	84	ne.	8	3.6		0	8 ks			0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.24	768.1	30.27	768.8	53.8	12.1	83	n.	9	4.0			10 s			0.15	3.8	cloudy	M. McGauran.
Philadelphia, Pa.	30.11	764.8	30.22	767.6	32	0.0	66	n.	3	1.3		3 cs	0	w.		0.17	4.3	clear	E. M. Mattison.
Pike's Peak, Colorado	17.53	445 3	30.25	768.3	— 4	—20.0	100	nw.			2	0	0			0	0	clear	H. Hall.
Ploche, Nevada	24.01	609.8	30.17	766.3	6.2	—14.3	69	calm	0	0		0	0			0	0	clear	O. N. Kitchel.
Pittsburg, Pennsylvania	29.49	749.0	30.35	770.9	20.0	— 6.7	70	w.	16	7.2		0	0			0.01	0.3	clear	W. A. Reid.
Poplar River, Montana	27.88	708.1	30.24	768.1				nw			1					0	0	cloudy	W. D. Maxwell.
Fort Eads, Louisiana	30.23	767.8	30.24	768.1	61.0	16.1	93	ne.	13	5.8			10 s		ne.	0	0	cloudy	H. B. Boyer.
Port Huron, Michigan	29.44	747.8	30.17	766.3	3.8	—15.7	85	s.	12	5.4		0	0			0	0	clear	W. O. Bailey.
Portland, Maine	29.95	760.7	30.00	762.0	19.0	— 7.2	53	w.	12	5.4		0	0			0.12	3.0	clear	W. W. Elchelberger.
Portland, Oregon	30.29	769 4	30.36	771.1	15.5	— 9.2	53	n.	2	0.9		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					44	6.7	100	n.	40	17.9			10 n		n.	0.07	1.8	light rain	F. S. Coburn.
Prescott, Arizona	24.78	629.4	30.14	765.5	16.2	— 8.8	70	nw.	1	0.4		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass.	30.05	763.3	30.08	764.0	25	— 3.9	04	w.	11	4.9		0	1 s			0.51	13.0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.23	767.8	30.24	768.1	67.5	19.7	93	ne.	5	2.2		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.91	759.7	30.28	769.1	27	— 2.8	88	w.	5	2.2		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.41	747.0	30.12	765.0	11	—11.7	80	w.	29	13.0		0	7 k			0.04	1.0	fair	E. W. McGann
Roseburg, Oregon	29.72	754.9	30.29	769.4	27.8	— 2.3	87	nw.	1	0.4		0	4 k		nw.	0	0	fair	J. J. Nanry.
Sacramento, California	30.17	766.3	30.25	768.3	33.7	0.9	72	ne.	5	2.2		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.82	757.4	30.46	773.7	18.0	— 7.8	91	sw.	4	1.8		7 ck	0	w.		0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	30.67	779.0	30.71	780.0	24	— 4.4	100	se.	8	3.6			10 s			0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.12	739.6	30.06	763.5	3.0	—16.1	87	sw.	7	3.1		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.03	737.3	30.00	762.0	— 2	—18.9	81	n.	14	6.3			10 s			0	0	cloudy	O. B Dilley.
Salt Lake City, Utah	25.74	653.8	30.30	769.6	6	—14.4	76	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.58	751.3	30.30	769.6	34.5	1.4	79	n.	7	3.1		5 cs	0			0	0	fair	T. J. Kenan.
San Diego, California	30.02	762.5	30.09	764.3	40.3	4.6	66	ne.	2	0.9		0	0			0	0	clear	A. G. Dobbins.
Sandusky, Ohio	29.57	751.1	30.29	769.4	13	—10.6	80	w.	16	7.2		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.17	766 3	30.20	767.1	27.0	— 2.8	77	nw.	16	7.2		1 k	0	nw.		0.15	3.8	clear	B. A. Blundon.
San Francisco, California	30.17	766.3	30.24	768.1	38.5	3.6	86	n.	7	3.1		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.22	589.8	30.30	769.6	18	— 7.8	56	ne.	11	4.9		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.09	764.3	30.18	766.6	66	18.9	84	sw.	5	2.2		2 ck	0	sw.		0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.52	673.6	30.37	771.4	12	—11.1	83	nw.	12	5.4			10 n			0.05	1.3	light snow	A. L. Mathews.
Shreveport, Louisiana	30.14	765.5	30.39	771.9	31	— 0.6	88	ne.	8	3.6			10 s		ne.	inap.	inap.	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	29.11	739.4	30.42	772.7	21.5	— 5.8	72	se.	3	1.3			10 ks			0	0	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.30	617.2	30.15	765.8	25.0	— 3.9	73	nw.	1	0.4		0	6 s			0	0	fair	N. D. Lane.
Sitka, Alaska	30.36	771.1	30.42	772.7	34	1.1	72	ne.	4	1.8		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.94	760.5	30.44	773.2	21.0	— 6.1	84	calm	0	0			10 cs		w.	0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.08	764.0	30.12	765.0	57	13.9	93	w.	9	4.0			10 n			0.01	0.3	light rain	O. Parker.

STATIONS.	Barometer: Corrected for instrumental error and for temperature.		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Coll'd.																			
Spokane Falls, Wash. Ter.	28.34	719.8	30.47	773.9	1	—17.2	79	calm	0	0	.....	.....	.....	.....	.....	0.06	1.5	clear.....	H. Clifford.
Springfield, Illinois.....	29.68	753.9	30.41	772 4	20°	— 6.7	76	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	T. B. Jennings.
Springfield, Missouri.....	28.92	734.6	30.43	772.9	15.0	— 9.4	83	calm	0	0	.....	3 cs	0	nw.	.....	inap.	inap.	clear..	J. H. Bryce.
Starkville, Miss.....	29.92	760.0	30.42	772.7	29	— 1.7	88	n.	9	4.0	.....	.....	10 s	.....	.....	0.34	8.6	cloudy.....	C. Dill.
Stevenson, Fort, Dakota....	28.17	715 5	30.19	766.8	6	—14.4	73	nw.	24	10.7	.....	9	0	.....	.....	0	0	clear.....	A. Schneider.
Stockton, Fort, Texas	27.68	687.8	30.21	767.3	35	1.7	66	n.	2	0.9	.....	.....	10 ks	.....	nw.	0	0	cloudy..	A. J. Warren.
Thatcher's Island, Mass....	30.04	763.0	30.10	764.5	23.0	— 5.0	73	nw.	20	8.9	.....	0	0	.....	.....	0.05	1.3	clear.....	G. Liebmann.
Thomas, Camp, Arizona.....	27.34	694.4	30.17	766 3	24	— 4.4	76	calm	.....	.....	0	3 ck	0	.....	.....	0	0	clear.....	J. T. Fitzgerald.
Toledo, Ohio.....	29.54	750.3	30.28	769.1	13	—10.6	61	sw.	13	5.8	.....	0	0	.....	.....	inap.	inap.	clear.....	A. Buell.
Tucson, Arizona.....	27.63	701.8	30.11	764.8	34	1.1	72	s.	2	0.9	.. ....	0	3 s	.....	.....	0	0	clear.....	J. L. Whiteside.
Umatilla, Oregon.....	30.24	768.1	30.62	777.7	1	—17.2	72	nw.	5	2.2	.....	.....	10 s	.....	.....	inap.	inap.	cloudy.....	J. Daly.
Verde, Fort, Arizona.....	.....	.....	.....	.....	21	— 6.1	61	n.	.....	.....	1	0	0	.....	.....	0	0.	clear.....	O. L. Pease.
Vicksburg, Mississippi	30.12	765.0	30.39	771.9	34.8	1.6	81	n.	6	2.7	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	James Kenealy.
Visalia, California.....	29.84	757.9	30.22	767.6	28.3	— 2.1	70	se.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	O. D. Stewart
Washakie, Fort, Wyoming.	24.47	621 5	30.23	767.8	—28.7	—33.7	.....	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	T. M. Ambler.
Washington, D. C.....	30.12	765.0	30.24	768.1	33.6	0.9	59	nw.	2	0.9	.....	5 c	0	w.	.....	inap.	inap.	fair.....	B. M. Purssell.
West Las Animas, Colorado	26 12	663.4	30.25	768.3	— 9	—22.8	100	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	F. H. Brandenburg
Williamsport, Pa.....	29.53	750.0	30.10	766.1	26	—3.3	64	w.	12	5.4	.....	.....	10 ks	.....	w.	0	0	cloudy.....	B. F. Hough.
Wilmington, N. Carolina...	30.12	765.0	30.18	766.6	54	12.2	93	ne.	7	3.1	.....	.....	10 n	.....	w.	0.05	1.3	light rain.....	Samuel A. Haney.
Winnemucca, Nevada.....	25.68	652.3	30.20	767.1	— 3.0	—19.4	83	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	J. Grover.
Yankton, Dakota.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. H. Atfield.
Yuma, Arizona.....	29.97	761.2	30.12	765.0	44.6	7.0	45	ne.	7	3.1	.....	4 cs	0	sw.	.....	0	0	fair.....	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia.....	22 01	559.0	.....	.....	54.0	12.2	71	sw.	2	0.9	.....	.....	7 s;n	.....	w.	0	0	drizzling.. ..	Joaquin Gomez.
Kingston, Jamaica, W. I....	30.08	764.0	30.09	764.3	79	26.1	62	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	Robert Johnston.
Paramaribo, S. A.....	30.03	762.7	30.03	762.7	77	25.0	91	e.	.....	.....	3	.....	8 ks	.....	e.	0.070	1.8	cloudy.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.31	744.5	29.86	758.4	80	26.7	89	calm	.....	.....	0	1 c	0	calm	.....	0.04	1.0	light fog	Francisco J. Cisneros.
Rivas, Nicaragua, C. A....	.....	.....	.....	.....	76	24.4	92	ne.	.....	.....	3	0	2 ks	.....	ne.	0	0	clear.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.64	778.2	30.70	779.8	34	1.1	79	sw.	.....	.....	1	4 c	0	.....	.....	0	0	clear.....	W. J. Fisher.
St. Thomas, W. I.....	30.10	764.5	30.23	767.8	75	23.9	71	e.	.....	.....	.....	2 k	4 k	e.	e.	0.05	1.3	fair.....	Aug. Walloe.
Havana, Cuba.....	30.08	764.0	30.14	765.5	69.8	21.0	90	e.	3	1.3	.....	0	1 k	.....	e.	0	0	clear.....	Benito Vines, S. J.
York Factory, B. A.....	29.93	760.2	30.00	762.0	—36.6	—37.8	.....	nw.	18	8.0	.....	1 c	1 s	w.	nw.	0	0	fair.....	Fortesque & Wood.

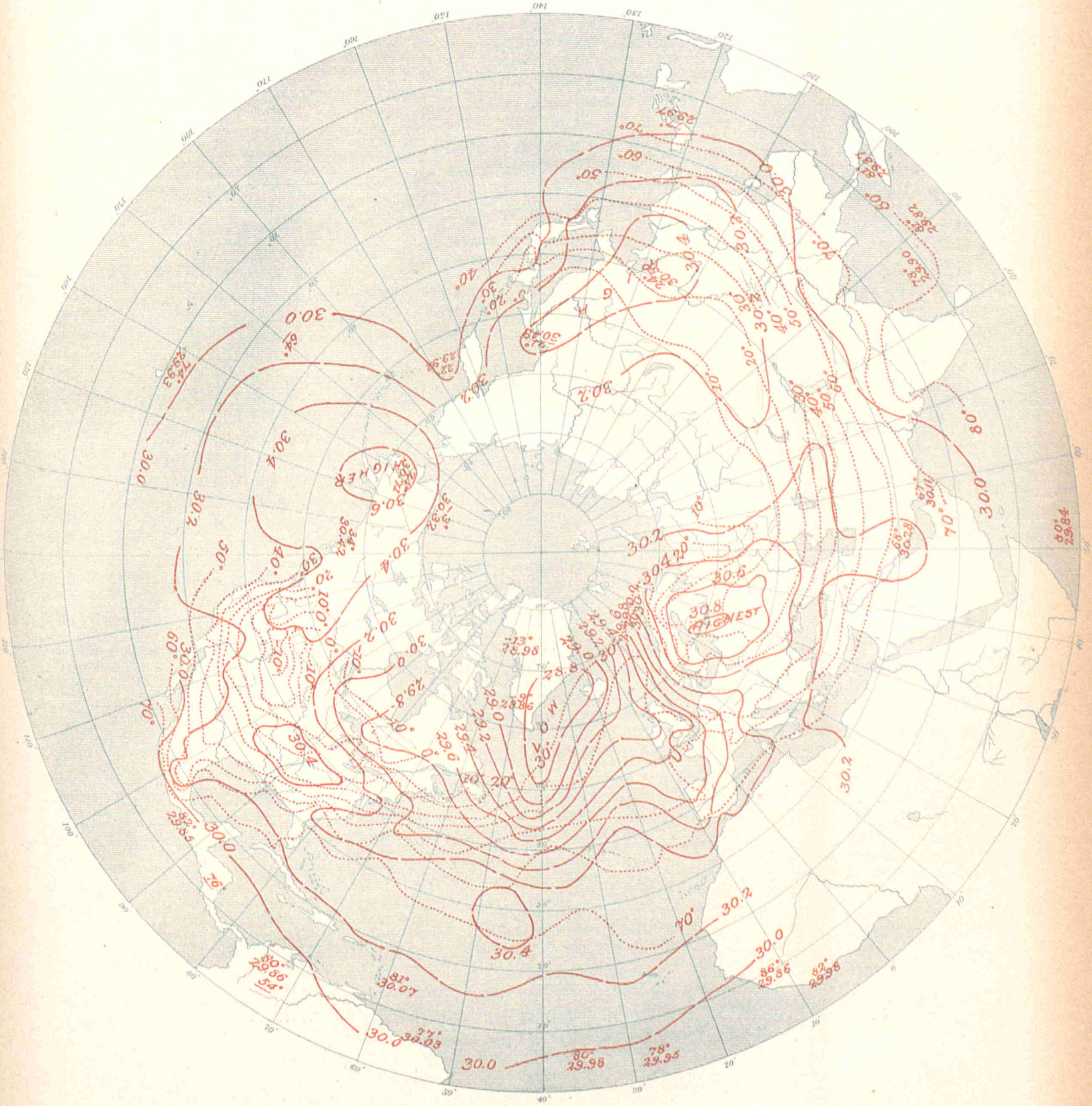
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell. Character.	Sea-swell. Direction from	WEATHER.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Agincourt, N. 48° 27′, W. 6° 15′	29.66	753.4	53.5	11.9	.....	w.	.....	.....	3	.....	8	wnw.	.....	.....	.....	6	wsw.	showery.
H. M. Dock-Yard, Bermuda, W I.	30.23	767.8	67	19.4	84	ssw.	.....	.....	2–3	.....	4	ssw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Fawn, N. 6° 18′, W. 27° 00′	29.99	761.7	76.5	24.7	97	nne.	.....	.....	3	.. ....	10	.. ..	.....	.....	.....	3	n.	overcast.
H. M. S. Iron Duke, N. 36° 56′, E. 12° 00′	30.34	770.6	60	15.6	88	wnw.	.....	.....	3	.....	5	wnw.	.....	.....	.....	3	wnw.	d. clouds.
H. M. S. Monarch, Port Said, Egypt	30.14	765.5	67	19.4	79	wsw.	.....	.....	1	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Minotour, N. 47° 40′, W. 7° 30′	29.58	751.3	52	11.1	79	w.	.....	.....	3	.....	9	wnw.	.....	.....	.....	7	w.	misty.
H. M. S. Tyne, N 4° 20′, W. 7° 26′	29.98	761.5	82	27.8	87	wsw.	.....	.....	3	.....	2	n.	.....	.....	.....	1	wsw.	misty.
H. M. Frigate Vanadis, N. 41° 05′, E. 18° 23′	30.25	768 3	52.7	11.5	62	ene.	.....	.....	3	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	30.07	763.8	16	— 8.9	?	nw.	2	0.9	.....	.....	0	.....	.....	.....	.....	blank	blank	clear.
U. S. S. Alliance, Bahia Honda, Cuba, W. I	.....	.....	75	23.9	?	ene.	.....	.....	2–3	.....	0	.....	.....	.....	.....	0	0	sm'h	clear.
U. S. S. Enterprise, N. 15° 51′, W. 25° 05′*	30.17	766.3	72	22.2	80	ene.	.....	.....	5	.....	2	.....	e.	.....	.....	.....	.....	sm'h	clear.
U. S. S. Jamestown, N. 16° 50′, W. 55° 10′	30.19	766.8	76	24.4	86	e.	.....	.....	6	.....	10	.....	e.	.....	.....	.....	.....	mod.	ne. cloudy.
U. S. S. Kearsarge, N. 11° 39′, W. 74° 22′	29.87	758.7	74	23.3	100	ene.	.....	.....	6	.....	2	.....	ene.	.....	.....	.....	.....	mod.	ene. fair.
U. S. S. Lancaster, N. 36° 57′, W. 9° 00′	29.97	761.2	61	16.1	100	ssw.	.....	.....	6	.....	8	.....	sw.	.....	.....	.....	.....	h'vy	ssw. fair.
U. S. S. Nipsic, N. 22° 55′ W. 45° 17′	30.40	772.1	73	22.8	76	ese.	.....	.....	5	.....	8	.....	ese.	.....	.....	.....	.....	long	e. cloudy
U. S. S. Quinnebaug, N. 38° 52′ E. 6° 46′	30.22	767.6	60	15.6	76	wsw.	.....	.....	4	.....	8	.....	wsw.	.....	.....	.....	.....	long	wsw. cloudy.
U. S. S. St. Louis, League Island, Pa.	30.17	766.3	26	— 3.3	88	n.	1	0.4	.....	.....	0	.....	.....	.....	.....	0.15	3.8	.....	..... clear.
U. S. S. Tennessee, St. Croix, W. I*	30.13	765.3	80	26.7	86	e.	10	4.5	.....	.....	2	.....	.....	.....	.....	0.01	0.3	.....	..... clear.
U. S. S. Vandalia, Gonaives, Hayti, W. I*	30.14	765.5	74	23.3	85	se.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Yantic, N. 22° 08′, W. 89° 19′	30.20	767.1	77	25.0	100	ene.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	sm'h	..... clear.
S. S. British Crown, N. 43° 13′, W. 44° 53′†	29.48	748.8	59	15.0	.....	wnw.	.....	.....	7	.....	10	.....	nw.	3 h'r	3 h'r	h'vy	wnw.	overcast.
S. S. British Prince, N. 45° 57′ W. 39° 27′†	29.40	746.7	40	4.4	.....	wsw.	.....	.....	9	.....	8	.....	wsw.	2 h'r	2 h'r	h'vy	var.	misty.
S. S. Illinois, Philadelphia, Pa	30.10	764.5	29	— 1.7	89	nnw.	.....	.....	3	.....	5	.....	nw.	.....	.....	.....	.....	.....	½ covered.
S. S. Indiana, N. 41° 24′, W. 56° 25′	.....	.....	43	6.1	83	nnw.	.....	.....	4	.....	2	.....	w.	0	0	h'vy	w.	fine
S. S. Lord Clive, Liverpool, Eng	.....	.....	.....	...	...	ese.	.....	.....	3	.....	10	.....	.....	7 h'r	7 h'r	.....	.....	.....	raining.
S. S. Lord Gough, Philadelphia, Pa	30.14	765.5	30	— 1.1	.....	w.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	.....	clear.
S. S. Ohio, off Queenstown, Ireland	.....	.....	45	7.2	92	wsw.	.....	.....	4	.....	9	.....	w.	.....	.....	light	wsw.	cloudy.
S. S. Pennsylvania, Queenstown, Ireland†	29.70	754.4	44	6.7	92	n.	.....	.....	4	.....	9	.....	s.	7 h'r	7 h'r	sm'h	.....	fine.
S. S. Circassian, N. 47° 40′, W. 43° 10′*	28.83	732.3	31	— 0.6	.....	wsw.	.....	.....	9	.....	9	.....	w.	4 h'r	4 h'r	7	w.	snowing.
S. S. Manitoban, N. 48° 00′, W. 43° 05′	28.80	731.5	33	0.6	.....	w.	.....	.....	9	.....	10	.....	w.	4 h'r	4 h'r	h'vy	w.	cloudy.
S. S. Scandinavian, N. 48° 40′, W. 39° 18′	28.83	732.3	45	7.2	.....	sw.	.....	.....	8	.....	10	.....	w.	snow	snow	con.	sw.	snowing
S. S. Stella, N. 41° 08′, W. 56° 04′	29.73	755.1	51:8	11	.....	wnw.	.....	.....	6	.....	9	.....	nw.	10 h'r	10 h'r	7	w.	squally.
S. S. Ailsa, N. 10° 32′, W. 78° 10†	30.01	762.2	80	26.7	91	ne.	.....	.....	5	.....	8	.....	ne.	0	0	mod.	ne.	cloudy.
S. S. Anchoria, N. 44° 05′, W. 50° 35′ †	29.68	753 9	.....	.....	.....	wnw.	.....	.....	6	.....	10	.....	wsw.	12 h'r	12 h'r	mod.	wsw.	overcast.
S. S. Assyria, N. 33° 27′, W. 20° 07′	30.31	769.9	60	15.6	94	nw.	.....	.....	6	.....	2	.....	nw.	.....	.....	r'gh	nw.	
S. S. Dorian, N. 41° 43′, W. 53° 40′	29.78	756.4	48	8.9	.....	nw.	.....	.....	6	.....	10	.....	.....	6 h'r	6 h'r	rg'h	w.	
S. S. Galatia, Port Said, Egypt †	30.15	765.8	70	21.1	100	nnw.	.....	.....	3	.....	0	.....	.....	.....	.....	mod.	se.	clear.
S. S. Landaff City, N. 40° 41′, W. 71° 04′†	30.10	764.5	30	— 1.1	.....	w.	.....	.....	6	.....	6	.....	w.	.....	.....	mod.	w.	fine.
S. S. Bothnia, N. 50° 37′ W. 17° 23	29.70	754.4	44	6.7	92	nw.	.....	.....	5	.....	7	.....	nw.	snow	snow	...	nw.	squally.
S. S. Pavonia, N. 49° 35′, W. 31° 43′	.....	.....	41	5.0	91	ssw.	.....	.....	8	.....	10	.....	ssw.	hail	hail	h'vy	sw.	squally.
S. S. Colina, N. 54° 43′, W. 9° 25 †	29.30	744.2	.....	.....	.....	wnw.	.....	.....	6	.....	8	.....	n.	3 h'r	3 h'r	mod.	nw.	cloudy.
S. S. Labradore, N. 41° 18′, W. 59° 36′	.....	.....	42.8	6	.....	wnw.	.....	.....	5	.....	7	.....	w.	rain	rain	r'gh	w.	
S. S. Pereire, N. 50° 36′, W. 25° 47 ′†	29.58	751.3	42.8	6	.....	wsw.	.....	.....	6	.....	6	.....	w.	hail	hail	r'gh	wsw.	sprinkling.
S. S. Ville de Marseilles, Vera Cruz, Mexico	.....	.....	67	19.4	.....	nnw.	.....	.....	5	.....	8	.....	nnw.	sh'rs	sh'rs	.....	.....	cloudy.
S. S. Abyssinia, N. 49° 59′, W. 26° 52′	29.54	750.3	41	5.0	92	sw.	.....	.....	6	.....	10	.....	sw.	2 h'r	2 h'r	r'gh	con.	squally.
S. S. Bohemia, N. 49° 30′ W. 13° 30′ †	29.60	751.8	.....	.....	.....	ne.	.....	.....	6–8	.....	9 k	.....	ne.	2 h'r	2 h'r	h'vy	nnw.	snow-squalls
S. S. Silesia, N. 50° 04′, W. 29° 30′†	29.59	751.6	.....	.....	.....	wnw.	.....	.....	7	.....	8	.....	w.	0	0	7	wsw.	overcast.
S. S. Bulgarian, N. 50° 17′, W. 28° 44′*	29.56	750.8	.....	.....	.....	sw.	.....	.....	6	.....	10	.....	wsw.	3 h'r	3 h'r	high	sw.	
S. S. Virginian, N. 43° 55′ W. 52° 00′*	29.74	755.4	37	2.8	.....	nw.	.....	.....	7	.....	10	.....	wnw.	12 h'r	12 h'r	h'vy	cross	overcast.
S. S. Archimedes, N. 6° 38′, W. 29° 09′	29.91	759.7	.....	.....	.....	nne.	.....	.....	4	.....	2	.....	nne.	0	0	mod.	ne.	fine.
S. S. Colorado, N. 24° 50′, W. 80° 32′†	30.25	768.3	75	23.9	.....	se.	.....	.....	2	.....	2	.....	se.	0	0	small	s.	clear.
S. S. San Marcos, N. 36° 00′ W. 74° 50′	30.07	763.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	rain	rain	.....	.....	.....

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. New York, N. 38° 00′, W. 74° 30′ †.....	30.27	768.8	50	10.0	.....	nnw.	.....	.....	5	.....	5?	.....	nw.	0	0	mod.	e.	clear.?
S. S. Hermod, N. 45° 12′, W. 31° 23′†.....	29.62	752.3	48.2	9	.....	sw.	.....	.....	9	.....	10	.....	sw.	4 h'r	4 h'r	high	sw.	threatening
S. S. Alleghany, Baltimore, Md†.....	30.24	768.1	28	— 2.2	.....	sw.	.....	.....	2	.....	0?	.....	.....	0	0	.....	.....	overcast.?
S. S. Archimede, N. 34° 45′, W. 189 13′†.....	30.27	768.8	64	17.8	.....	nw.	.....	.....	3	.....	3	.....	wnw.	2 h'r	2 h'r	h'vy	wnw.	clear.
S. S. Picqua, N. 37° 50′, W. 38° 00′.....	.....	.....	67	19.4	.....	sw.	.....	.....	5	.....	5	.....	sw.	0	0	cross	sw.	fair.
S. S. City of Washington, N. 21° 20′, W. 89° 38′†.....	30.18	766.6	80	26.7	.....	ene.	.....	.....	4	.....	2	.....	ne.	0	0	sm'h	.....	fine.
S. S. Santiago, Cienfuegos, Cuba, W. I.....	.....	.....	73	22.8	.....	nne.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	fine.
S. S. Egypt, N. 40° 49′, W. 63° 29′*.....	29.81	757.2	36	2.2	.....	n.	.....	.....	4	.....	10	.....	n.	9 h'r	9 h'r	long	sw.	cloudy.
S. S. England, off Kinsale, Ireland.....	29.52	749.8	.....	.....	.....	wsw.	.....	.....	5	.....	10	.....	w.	4 h'r	4 h'r	mod.	s.	overcast.
S. S. Erin, New York, N. Y.....	30.20	767.1	31	— 0.6	.....	wnw.	.....	.....	5	.....	4	.....	w	0	0	.....	.....	fine.
S. S. Greece, Dover, Eng.....	29.48	748.8	47	8.3	.....	ssw.	.....	.....	6	.....	10	.....	se.	14 h'r	14 h'r	h'vy	se.	raining.
S. S. Queen, N. 49° 50′, W. 9° 28′.....	29.70	754.4	49	9.4	.....	w.	.....	.....	5	.....	10	.....	wnw.	9 h'r	0 h'r	long	w.	cloudy.
S. S. America, N. 43° 03′, W. 47° 14′*.....	29.72	754.9	47.0	8.3	92	wsw.	.....	.....	7	.....	10	.....	wnw.	8 h'r	8 h'r	r'gh	wnw.	showery.
S. S. Braunschweig, Porto Grande, Cape Verd Ids.....	30.15	765.8	75.0	23.9	81	nne.	.....	.....	4	.....	4?	.....	nne.	0	0	long	ne.	cloudy?
S. S. Donau, N. 49° 37′, W. 14° 43′.....	29.73	755.1	.....	.....	.....	wsw.	.....	.....	6	.....	5	.....	w.	4 h'r	4 h'r	r'gh	wsw.	squally.
S. S. Hermann, N. 43° 11′, W. 53° 02′.....	.....	.....	32	0.0	91	wsw.	.....	.....	6	.....	10	.....	wsw.	3 h'r	3 h'r	5	w.	squally.
S. S. Muriel, N. 26° 40′, W. 66° 10′*.....	30.26	768.6	73	22.8	.....	sse.	.....	.....	4	.....	0	.....	.....	.....	.....	long	e.	clear.
S. S. Belgenland, N. 44° 00′, W. 51° 40′*†.....	29.04	752.8	35	1.7	70	wnw	.....	.....	7	.....	10	.....	nw.	7 h'r	7 h'r	r'gh	var.	squally.
S. S. Nederland, N. 49° 45′, W. 22° 18′.....	.....	.....	47	8.3	55	wsw.	.....	.....	4	.....	2	.....	wsw.	4 h'r	4 h'r	long	nw.	clear.
S. S. Rhynland, Antwerp Belgium.....	29.96	761.0	38	3.3	100	ese.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	rainy.
S. S. Pennland, N. 51° 10′, E. 1° 57′.....	29.77	756.1	46	7.8	92	se.	.....	.....	3	.....	10	.....	se.	8 h'r	8 h'r	short	se.	overcast.
S. S. Waesland, N. 42° 30′, W. 58° 02′.....	29.94	760.5	32	0.0	.....	wnw.	.....	.....	6	.....	10	.....	nnw.	7 h'r	7 h'r	high	w.	cloudy.
S. S. Zeeland, Strait of Dover.....	.....	.....	46	7.8	.....	se.	.....	.....	2	.....	l.z.	.....	se.	16 h'r	16 h'r	sta'h	.....	raining.
S. S. P. Caland, N. 49° 35′, W. 25° 30′.....	29.56	750.8	43.2	6.2	88	sw.	.....	.....	5	.....	7	.....	sw.	.....	.....	5	wnw.	cloudy.
S. S. Schiedam, N. 52° 06′, E. 4° 00′.....	.....	.....	46.2	7.9	.....	se.	.....	.....	5	.....	10	.....	.....	4 h'r	4 h'r	mod.	.....	hazy.
S. S. Zaandam, N. 40° 28′, W. 73° 50′.....	30.18	766.6	50.4	10.2	74	w.	.....	.....	4	2 c	0	w.	.....	2 h'r	2 h'r	3	.....	fine.
S. S. Claudius, Greytown, Nicaragua, C. A†.....	30.06	763.5	77.0	25.0	91	ene.	.....	.....	4	.....	5	.....	ene.	h'vy	h'vy	long	sne.	rainy.
S. S. Valencia, Puerto Cabello, Venezuela†.....	30.04	763.0	78	25.6	86	ne.	.....	.....	3	.....	2?	.....	ene.	2 h'r	2 h'r	.....	.....	cloudy?
S. S. State of Indiana, N. 42° 51′, W. 54° 40′.....	.....	.....	36	2.2	.....	nw.	.....	.....	6	.....	10	.....	w.	10 h'r	10 h'r	high	sw.	threatening.
S. S. Romano, N. 43° 55′, W. 31° 29′.....	.....	.....	51	10.6	.....	sw.	.....	.....	6	.....	10	.....	ssw.	10 h'r	10 h'r	h'vy	var.	raining.
S. S. Salerno, Hull, Eng†.....	29.00	751.8	45	7.2	.....	ese.	.....	.....	6	.....	10	.....	ese.	3 h'r	3 h'r	r'gh	se.	raining.
S. S. Brooklyn, N 47° 38′ W. 41° 21′.....	.....	.....	38	3.3	.....	w.	.....	.....	9	.....	.....	.....	wnw.	6 h'r	6 h'r	h'vy	wnw.	foggy.
S. S. Dominion, Liverpool, Eng*†.....	29.54	750.3	45	7.2	.....	ese.	.....	.....	4	.....	10	.....	e.	7 h'r	7 h'r	mod.	se.	rainy.
S. S. Surrey, N. 45° 32′, W. 43° 43′ †.....	29.18	741.2	42	5.6	.....	wsw.	.....	.....	9	.....	.....	.....	.....	9 h'r	9 h'r	h'vy	w.	fair
S. S. Lake Huron, N. 40° 20′, W., 72° 18′.....	.....	.....	30	— 1.1	.....	w.	.....	.....	4	.....	1	.....	nw.	4 h'r	4 h'r	sm'h	.....	
S. S. Plantyn, N. 50° 18′, W. 26° 41′.....	29.42	747.3	.....	.....	.....	.....	.....	.....	8	.....	6	.....	sw.	12 h'r	12 h'r	high	nw.	
S. S. Norman, N. 42° 12′, W. 70° 43′*†.....	30.10	764.5	.....	.....	.....	wnw.	.....	.....	5	.....	.....	.....	.....	0	0	sm'h	.....	clear.
S. S. Saxon, N. 41° —′, W. 71° 45′†.....	30.04	763.0	.....	.....	.....	nw.	.....	.....	9	.....	2	.....	.....	.....	.....	.....	.....	fine.
S. S. Adriatic, N. 41° 47′, W. 61° 10′†.....	29.91	759.7	34	1.1	.....	nw.	.....	.....	5	.....	10	.....	nw.	6 h'r	6 h'r	mod.	sw.	overcast.
S. S. Baltic, N. 49° 55′, W. 23° 14′*.....	29.70	754.4	42	5.6	65	sw.	.....	.....	1	.....	1	.....	w.	snow	snow	r'gh	var.	snowy.
S. S. Iowa, N. 42° 34′, W. 55° 07′*†.....	29.90	759.4	40	4.4	.....	wnw.	.....	.....	6	.....	10	.....	wnw.	10 h'r	10 h'r	r'gh	wsw.	cloudy.
S. S. City of Agra, N. 4° 20′, W. 30° 35′.....	29.98	761.5	79.5	26.4	83	ne.	.....	.....	5	.....	8	.....	.....	.....	.....	.....	.....	d clouds.
S. S. Antonio Lopez, N. 21° 17′, W. 50° 23′.....	30.31	769.9	75	23.9	72	e.	.....	.....	4	.....	4	.....	.....	1 h'r	1 h'r	mod.	e.	fair
Schr. Abbie H Ghcen, Hampton Roads, Va†.....	30.23	767.8	40	4.4	.....	ne.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	cloudy.
Bk. Aquidneck, N. 37° 04′, W. 66° 48′.....	.....	.....	.....	.....	.....	sw.	.....	.....	.....	.....	.....	.....	wsw.	2 h'r	2 h'r	h'vy	wsw.	cloudy.
Bg. Alcira, Maracaybo, Venezuela, S. A.....	29.96	761.0	87	30.6	.....	ne.	.....	.....	2	.....	4	.....	ne.	0	0	.....	.....	clear.
Schr. Annie A. Holton, Tampico, Mexico†.....	30.25	768.3	64	17.8	.....	n.	.....	.....	3	.....	10	.....	n.	1 h'r	1 h'r	sm'h	.....	cloudy.
Schr. Annie R. Lewis, St Pierre, Martinique, W. I†.....	30.20	767.1	76	24.4	.....	ene.	.....	.....	5	.....	10	.....	ene.	12 h'r	12 h'r	.....	.....	raining.
Schr. Annie Thorman, N. 3° 30′, W. 28° 47′*.....	30.05	763.2	77.9	25.5	83	nne.	.....	.....	5	.....	10 n	.....	ne.	shr's	shr's	r'gh	nne.	rainy.
Bk. Aureola, Swansea, Wales.....	.....	.....	45	7.2	.....	sw.	.....	.....	2	.....	5	.....	w.	0	0	.....	.....	fair.
Bk. Achille F., N. 47° —′, W. 20° —′†.....	29.95	760.7	45	7.2	84	wnw.	.....	.....	7	.....	3	.....	w.	0	0	h'vy	wnw.	
S. Armenia, N. 28° —′ W. 39° 30′*.....	30.36	771.1	67	19.4	89	ene.	.....	.....	4	.....	4	.....	ene.	1 h'r	1 h'r	mod.	nnw.	clear.
Bg. Belle of the Bay, Pensacola, Fla†.....	30.25	768.3	.....	.....	.....	wnw.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Bremen, N. 32° 55′, W. 72° 28′*.....	30.18	766.6	.....	.....	.....	wsw.	.....	.....	6	.....	7	.....	wnw.	0	0	mod.	sw.	cloudy.
S. S. Benledi, N. 41° 15′, W. 45° 00′ *.....	29.69	754.1	57	13.9	94	wsw.	.....	.....	6	.....	7?	.....	w.	12 h'r	12 h'r	h'vy	var.	overcast.?
Bkt. Bonny Doon, N. 29° 55′, W. 68° 25′*†.....	30.24	768.1	.....	.....	.....	ssw.	.....	.....	3	.....	8	.....	w.	0	0	sm'h	e.	cloudy.
Bk. Bare, N. 27° 22′, W. 35° 41′.....	.....	.....	72	22.2	.....	ne.	.....	.....	3	.....	5	.....	e.	2 h'r	2 h'r	long	nnw.	fair.
Bk. Pilgrim, N. 35° 40′, W. 54° 50′*†.....	30.30	769.6	.....	.....	.....	s.	.....	.....	4	.....	4	.....	ssw.	0	0	mod.	s.	fair.
Bk. Champion, N. 41° 51′, W. 47° 12′†.....	29.04	752.8	55	12.8	.....	wsw.	.....	.....	6	.....	10	.....	wsw.	10 h'r	10 h'r	h'vy	wsw.	drizzling.
Bkt. C. S. Bushnell, N. 37° 00′, W. 14° 10′	.....	.....	.....	.....	.....	wnw.	.....	.....	7	.....	8	.....	nw.	rain	rain	h'vy	nw.	squally.
S. Cornelius, N. 58° 04′, W. 21° 15′†.....	29.24	742.7	39.9	4.4	.....	sw.	.....	.....	5	.....	4	.....	.....	5 h'r	5 h'r	h'vy	var.	squally.
Bk. Commerce, Cadiz, Spain†.....	30.08	764.0	63	17.2	.....	ssw.	.....	.....	4	.....	2	.....	sw.	4 h'r	4 h'r	.....	.....	fine.
Bk. Ceres, N. 18° 59′ W., 32° 09′ *.....	30.27	768.8	70.5	21.4	77	ene.	.....	7–8	.....	.....	9	.....	ese.	shr's	shr's	.....	.....	cloudy.
Bk. Chas. Stewart, N. 32° 50′, W. 46° 00′†.....	30.51	774.9	60	15.6	.....	wsw.	.....	.....	3	.....	5	.....	sw.	.....	.....	large	nw.	
Schr. Edith R. Seward, Palenque, Hayti, W. I†.....	30.17	766.3	77	25.0	.....	ne.	.....	.....	2	.....	5?	.....	ene.	½h'r	½h'r	mod.	ese	clear.?
S. E. J. Spicer, N. 41° 49′, W. 24° 56′.....	30.21	767.3	52	11.1	93	nnw.	.....	.....	4	.....	5	.....	n.	sq'lls	sq'lls	long	nnw.	fair.
S. Festina Lente, N. 57° 11′, W. 21° 19′.....	29.35	745.5	34	1.1	.....	wsw.	.....	.....	4	.....	8	.....	wsw.	8 h'r	8 h'r	h'vy	w.	snowing.
Bk. Grey Eagle, N. 23° 25′, W. 63° 17′*†.....	30.20	767.1	.....	.....	.....	e.	.....	.....	5	.....	5?	.....	e.	0	0	light	ene.	clear?
Bg. George, N. 29° 08′, W. 71° 12′*†.....	30.39	771.9	.....	.....	.....	s.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	se.	
Bk. Galeon, Cardiff, Eng.....	.....	.....	.....	.....	.....	se.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	
Bk. Henrich & Tonio, N. 32° 35′, W. 69° 35′†.....	30.17	766.3	69	20.6	.....	sw.	.....	.....	5	.....	0	.....	.....	0	0	mod.	var.	clear.
Schr. Hattie Weston, Mayaro, Trinidad, W. I *†.....	30.10	764.5	80	26.7	.....	e.	.....	.....	4	.....	5	.....	e.	0	0	long	e.	fair.
Bk Hattie G. McFarland, Pascagoula, Miss*†.....	30.40	772 1	60	15.6	.....	n.	.....	.....	0	.....	8	.....	n.	0	0	.....	.....	
Bk. Horace Scudder, N. 25° 23′, W. 45° 17′ *†..	30.48	774.2	78	25.6	.....	e.	.....	.....	3	.....	4	.....	e.	0	0	long	e.	clear.
Schr. Isabel Alberto, N. 39° 34′, W. 74° 00′ †	30.25	768.3	.....	.....	.....	nnw.	.....	.....	3	.....	3	.....	nw.	0	0	mod.	sse.	fair.
S. S. J. W. Wilson, Brazos, Santiago, Texas* †.....	30.13	765.3	46	7.8	.....	nw.	.....	.....	7	.....	10	.....	.....	20 h'r	20 h'r	.....	.....	drizzling.
Bk. Johanne, N. 37° 41′, W. 73° 14′ *†.....	30.10	764.5	43	6.1	.....	nnw.	.....	.....	1	.....	8	.....	var.	2 h'r	2 h'r	sm'h	.....	misty.
Schr. John L. Thomas, Swan Island, Caribbean Sea*†.....	30.10	764.5	.....	.....	.....	ene.	.....	.....	4	.....	2	.....	e.	½h'r	½h'r	.....	.....	fine
Bg. L. & W. Armstrong, Desecada Island, W. I*†.....	30.20	767.1	.....	.....	.....	e.	.....	.....	0	.....	2	.....	e.	0	0	long	e.	fine.
Bk. Louise Adelaide, Havana, Cuba, W. I†.....	30.09	764.3	.....	.....	.....	se.	.....	.....	1	.....	2	.....	e.	0	0	.....	.....	fine.
Bk. Mary A. Troop, Sharpness Point, Eng*†.....	29 48	748.8	.....	.....	.....	ssw.	.....	.....	2	.....	7	.....	ssw.	18 h'r	18 h'r	.....	.....	sprinkling.
Schr. Minnie A. Bonsall, Mayport, Fla †.....	30,30	769.6	71	21.7	.....	ne.	.....	.....	1	.....	.....	.....	ne	0	0	.....	.....	misty.
Bk. Matilda C. Smith, N. 48° 52′, W. 10° 30′†.....	29.61	752.1	.....	.....	.....	w.	.....	.....	5	.....	4	.....	sw.	0	0	mod.	w.	clearing.
Bgt. Myrtle, St. Thomas, W. I.....	.....	.....	.....	.....	.....	ene.	.....	.....	4	.....	1	.....	ene.	0	0	.....	.....	fair.
S. M. P. Grace, N. 10° 22′, W. 39° 38′ *.....	30.09	764.3	72	22.2	.....	ne.	.....	.....	0	.....	0	.....	ne.	0	0	r'gh	ne.	squally.
Bkt. Norena, Matanzas, Cuba, W. I*†.....	30.28	769.1	.....	.....	.....	ene.	.....	.....	2	.....	2	.....	nne.	0	0	.....	.....	fine.
Bk. Ottawa, Torrevieja Road, Spain*	30.08	764.0	65	18.3	.....	ssw.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
Schr. Pearl Nelson, Crooked Island, W. I*†.....	30.08	764.0	.....	.....	.....	e.	.....	.....	0	.....	.....	.....	.....	0	0	.....	.....	fine.
S. S. Raleigh, Boston, Mass†.....	29.96	761.0	20	— 6.7	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	fine.
Bk. Reindeer, N. 14° 05′, W. 61° 12′*.....	30.00	762.0	.....	.....	.....	ene.	.....	.....	0	.....	.....	.....	ene.	.....	.....	.....	.....	squally.
S. Rudolph, N. 34° 19′, W. 34° 26 *.....	30.18	766.6	58.3	14.6	.....	w.	.....	.....	3	.....	7	.....	wsw.	0 h'r	0 h'r	long	wnw.	fair.
Bk. Saga, N. 45° 16′, W. 27° 12′.....	.....	.....	48	8.9	.....	wsw.	.....	.....	4	.....	10	.....	var.	10 h'r	10 h'r	S	nw.	cloudy.
Bk. Sunbeam, N. 37° 43′, W. 14° 47′	30.08	764.0	55	12.8	73	wnw.	.....	.....	8	.....	8	.....	nw.	5 h'r	5 h'r	h'vy	wnw.	cloudy.
Bk. Usko, N. 50° 07′, W. 10° 34′*†	29.46	748.3	.....	.....	.....	w.	.....	.....	4	.....	3?	.....	wsw.	1 h'r	1 h'r	mod.	sw.	cloudy.?
S. Vincenzo Accame, N. 36° 45′, W. 68° 02′.....	30.00	762.0	64.4	18	.....	n.	.....	.....	5	.....	10	.....	n.	9 h'r	9 h'r	cross	var.	squally.
Schr. Wm. Wiler, Pointe a Pitre, Guadeloupe, W. I.†	30.11	764.8	.....	.....	.....	e.	.....	.....	5	.....	2	.....	e.	0	0	.....	.....	fine.
S. Wm. Woodbury, N. 62° 00′, W 6° 21′.....	.....	.....	42	5.6	.....	s.	.....	.....	10	.....	10	.....	s.	.....	.....	high	s.	squally.
District No. 2—South Atlantic.																		
H. M. S. Starling, S. 4° 51′, W. 3° 47′.....	30.06	763.5	79	26.1	95	se.	.....	.....	2	.....	2	se.	.....	.....	.....	.....	.....	blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay*.....	30.00	763.5	72	22.2	90	e.	11	4.9	.....	.....	8	.....	e.	0	0	.....	.....	fair.
U. S. S Galena, Montevideo, Uruguay*.....	30.05	763.3	72	22.2	90	se.	.....	.....	3	.....	5	.....	.....	.....	.....	mod.	se.	fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2—South Atlantic.—Continued.																		
S. S. Grecian, S. 22° 10′, W. 40° 00′*	30.05	763.3	86	30.0	79	nne.			5		4		nne.	0	0	sm'h		clear.
S. S. Hevelius, Buenos Ayres†	30.21	767.3	74	23.3		sse.			8		4?		se.	0	0			clear.
S. S. Ptolemy, S. 13° 48′, W. 36° 48′	30.08	764.0	81.2	27.3	82	nne.			3	c	4 k	nnw.		0	0	3	ne.	d. clouds.
S. S. Auckland, S. 10° 12′, W. 22° 00′	30.08	764.0	79	26.1	73	e.			3		2							blue sky.
S. S. Caldew, S. 25° 36′, E. 4° 24′	30.15	765.8	71.9	22.2	82	se.			2		8							d. clouds.
Bk. May Hulse, S. 47° 32′ W. 59° 21′	30.04	763.0	49	9.4	96	nw.			6		10							misty.
S. S. Ambrose, Para Brazil†	30.06	763.5	79	26.1		ne.			2		2		ne.	0	0			fine.
Bg. Annie R. Storer, S. 10° 00′, W. 35° 05′*†	30.28	769.1				e.			4		1		e.	½ h'r	½ h'r	sm'h	e.	fair.
Bk. Edmund Phinney, S. 45° 52′, W. 60° 42′ †	30.18	766.6	55	12.8		n.			4		10		n.	0	0	mod	ne.	overcast.
Bk. E. L. Pettingill, S. 37° 49′, W. 35° 40′*†	30.30	769.6	68	20.0		nnw.			3		0			0	0	sm'h	ssw.	
S. E. B. Sutton, S. 10° 40′, W. 33° 30†	30.08	764.0	82	27.8	75	e.			4		2		e.	0	0	sm'h	se.	clear.
S. Grecian, S. 3° 00′, W. 29° 30′†	30.05	763.3	80	26.7	86	se.			5		7		se.	½ hr	½ hr	long	n.	fair.
S. George Stetson, S. 50° —′, W. 55° —′ *†	29.90	759.4	50	10.0	86	wsw.			7		4		sw.			chop	sw.	clear.
Bkt. Josephine, S. 36° 05′, E. 11° 56′ †	30.04	763.0	70	21.1	75	w.			4		8			0	0	long	ssw.	cloudy.
S. Titan, S. 21° 10′, W. 38° 59′*†	30.14	765.5	79	26.1	91	nne.			3		5		n	2 h'r	2 h'r	sm'h	s.	fair.
Bkt. Wandering Jew, Montevideo, Uruguay †	30.10	764.5	71	21.7		ese.			5		7		e.	0	0			fair.
S. Sacramento. S. 43° 11′, E. 7° 30′ *†	30.00	762.0	53	11.7	100	wnw.			4		10			0	0	mod.	w.	overcast.
District No. 3—North Pacific.																		
S. S. Mexico, N. 32° 41′, W. 117° 52′†	30.12	765.0	54	12.2	61	nne.			1		5		ne.			sm'h		fair.
S. S. Arabic, N. 34° 10′, E. 138° 18′*†	29.87	758.7	45	7.2	84	nw.			6		2		nw.	h'vy	h'vy	mod.	ne.	clear.
S. S. Belgic, N. 22° 56′, E. 116° 35′*†	30.12	765.0	57	13.9	100	ne.			4		3			0	0	r'gh	ene.	clear.
S. S. Gaelic, N. 38° 47′, E. 148° 33′	29.93	760.2	45	7.2	100	ssw.			9		10		sw.	hv'y	hv'y	h'vy	con.	overcast.
S. S. Oceanic, N. 33° 29′, W. 171° 00′			64	17.8	89	ese.			7		9		se.			mod	se.	cloudy.
S. S. Columbia, N. 43° 03′, W. 124° 55′†	30.28	769.1	40	4.4	64	s.			1		0					mod.	nnw.	hazy.
S. S. Mississippi, Seattle, Wash. Ter †	30.40	772.1	34	1.1	79	e.			1		0							clear.
S. S. Willamette, Seattle, Wash. Ter †	30.52	775.2	30	— 1.1	89	calm			0		0			0	0			hazy.
S. S. Ancon, N. 32° 40′, W. 117° 15′ †	30.05	763 3	49	9.4	64	ne.			3		0					sm'h		clear.
S. S. City of Chester, Off Cape Mendocino, Cal *†	30.24	768.1	39	3.9	91	nw.			4		0					light	sw.	clear.
S. S. Dakota, Seattle, Wash. Ter *†	30.31	769.9	34	1.1	71	calm			0		0			0	0	sm'h	nw.	clear.
S. S. Queen of the Pacific, N. 41° 12′, W. 124° 37′†	30.27	768.8				nne.			2		1?						sm'h	cloudy?
S. S. City of Pekin, N. 23° 42′, E. 118° 02′ †	30.24	768.1	52	11.1	93	ne.			4		10		ne.			light	n.	cloudy.
S. S. City of Tokio, N. 32° 37′, W. 160° 41′†	30.21	767.3	64	17.8	78	se.			6				se.	0	0	mod.	se.	clear.
S. S. City of Rio de Janeiro, Panama, Panama			75	23.9	?	nnw.			1		1		n.	0	0	light	n.	fine.
S. S. Colima, N. 20° 11′ W. 106° 00′†	29.94	760.5	71	21.7	95	nnw.			4		2		nnw.	0	0	mod.	n.	clear.
S. S. Granada, N. 15° 44′, W. 93° 38′ †	29.85	758.2	82	27.8	83	calm			0		0			0	0	sm'h	wnw.	clear.
H. M. S Curacoa, Yokohama, Japan			38.5	3.6	91	calm			0		0							blue sky.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.91	759.7	71	21.7		ne.			2		10							misty.
U. S. Naval Hospital, Yokohama, Japan*	29.96	761.0	32.5	0.3	94	calm			0		0			0.47	11.9			clear.
U. S. S. Independence, Mare Island Cal.	30.26	768.6	32	0.0	100	calm			0		0			0	0			clear.
U. S. S. Lackawanna, Honolulu Sandwich, Islands*	29.93	760.2	74	23.3	68	ne.			4		10		ne.					cloudy.
U. S. S. Monocacy, Amoy, China	30.27	768.8	50	10.0	52	ene.			3		0							clear.
U. S. S. Palos, Tientsin, China*	30.42	772.7	25	— 3.9	100	ese.			1		10		calm					cloudy.
U. S. S. Ranger, N. 34° 04′, W. 119° 15′	30.12	765.0	55	12.8	45	nnw.			3		2		ene.	0	0	sm'h		clear.
U. S. S. Richmond, Hong-Kong, China *	30.12	765.0	56	13.3	75	ene.			3		10		ene.	0	0			cloudy.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.93	760.2	70	21.2	85	ne.			2		5		ne.			sm'h		fair.
S. Henry Failing. Fuca Strait†	30.35	770.9	38	3.3		ene.			5		0			0	0	cross	w.	fair.
S. St. Francis, N. 32° 00′, W. 125° 05′†	30.37	771.4	54	12.2		se.			2		4		se.	1 h'r	1 h'r	sm'h	n.	fair.
Tamega, Macao, China	30.22	767.5	57.2	14.0	78	calm			0		10			0	0			overcast.
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.87	758.7	65.5	18.6	97	calm			0		6							foggy.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	30.20	767.1	68.3	20.2	79	ne.			3		3					1	ne.	squally.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.88	758.9	62	16.7		calm			0							sm'h		d. clouds.
H. M. S. Rocket, S. 43° 50′, W. 73° 30′	29.92	760.0	62	16.7	94	ssw.			2		4					sm'h		d. clouds.
H. M. S. Swiftsure, S. 0° 20′, W. 95° 53′	29.83	757.7	76	24.4	100	s.			1–2		10		se.					misty.
H. M. S. Sylvia, Cape Providence, Patagonia	29.81	757.2	54.2	12.3	93	nw			4		10							drizzling.
U. S. S. Essex, Callao, Peru	29.83	757.7	67	19.4	89	se.			1		10							misty.
U. S. S. Iroquois, S. 25° 45′, W. 93° 51′	30.06	763.5	69	20.6	75	se.			2		10		se.			mod.	ese.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.00	762.0	65	18.3	94	sse.			2		10		n.					foggy.
U. S. S. Pensacola. Callao, Peru*	29.82	757.4	66	18.9	94	se.			4		10							foggy.
British Merchant, S. 10° 15′, W. 129° 31′	29.79	756.7	78.2	25.7	84	ase.			4		3							d. clouds.
Bk. Childwall, S. 1° 31′. W. 131° 08′*	29.70	754.4	75	23.9		ese			4		8		se.	0	0	sm'h		fine.
Bk. Gronsvaer, Auckland, New Zealand†	30.17	766.3	72.2	22.3		ne.			6		7		ne.	0	0			cloudy.
S. S. Australia, S. 34° 00′, E. 157° 00′	29.48	748.8	70	21.1	100	nne.			2		10		ne.	1 h'r	1 h'r	sm'h		misty.
S. S. City of Sydney, Sydney, N. S. W†	29.90	759.4	68	20.0	79	se.			2		5		se.	0	0	sm'h		fair.
S. S. Zealandia, S. 4° 22′, W. 162° 29′	29.86	758.4	81	27.2	96	ne.			3		0					sm'h		fine.
H. M. S. Gannet, S. 25° 15′, W. 73° 25′	29.90	759.4	67	19.4	69	s.			1		10					2	ssw.	overcast.
Bk. Warden Law, S. 21° 45′, W. 77° 09′ *	30.13	765.3				sse.			2		10		sse.	0	0	sm'h	sse.	covered.
S. Sovereign of the Seas, S. 44° 10′, W. 110° 22′ *†	30.38	771.6	56	13.3	100	sw.			4		9		wsw.	sh'rs	shr's	high	sw.	foggy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, N. 1° 17′ E. 51° 01′	29.84	757.9	80	26.7		nnw.			5		2	nne.				7	nne.	d. clouds.
H. M. S. Eclipse, N. 24° 14′ E. 59° 13′	30.01	762.2	67	19.4		nnw.			1		2	nnw.				1	nnw.	d. clouds.
H. M. S. Euryalus, N. 10° 30′, E. 84° 50′	29.90	759.4	78	25.6	82	ne.			2		3	calm				1	sm'h	d. clouds.
H. M. S. Himalaya, N. 5° 40′, E. 89° 55′	29.82	757.4	81	27.2	87	ne.			3–4		5					2	ne.	d. clouds.
H. M. S. Woodlark, Bushire, Persia	30.18	766.6	67.5	19.7	56	nw.			3		1	calm						blue sky.
S. S. Scotia, N. 4° 45′, E. 98° 03′	29.87	758.7	80.7	27.1	66	e			2		5							d. clouds.
Bk. Essex, S. 32° 06′, E. 30° 51′*†	29.92	760.0	84	28.9		nne.			1		2		nne.			light	ne.	fine.

International Chart I. February 8, 1883. Isobars and Isotherms.



By Order of the Secretary of War:
W.B.Hazen Chief Signal Officer.
Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 9, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.27	768.9	58.6	14.8	74	e.	.....	.....	4	.....	2	.....	.....	0	0	fair	Malaterre.
Algiers	.....	.....	30.20	767.1	57.9	14.4	49	sw.	.....	.....	6	.....	10	.....	.....	0.256	6.5	covered	Thève.
La Calle	.....	.....	30.22	767.5	68.0	20.0	47	wnw.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Fonfrède.
Tunis	.....	.....	30.23	767.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.32	770.2	55.8	13.2	8c	nw.	.....	.....	2	.....	5	.....	.....	inap.	inap.	cloudy	Pérès.
Tebessa	.....	.....	30.34	770.5	63.0	17.2	52	nw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Dognon.
Geriville	.....	.....	.....	.....	52.5	11.4	35	sw.	.....	.....	4	.....	3	.....	.....	0	0	pretty fair	Forfert.
Laghouat	.....	.....	30.35	770.8	59.4	15.2	47	w.	.....	.....	1	.....	2	.....	.....	0	0	fair	Abraham.
Biskra	.....	.....	30.36	771 1	64.8	18.2	37	se.	.....	.....	3	.....	0	.....	.....	inap.	inap.	clear	Malau.
Australian.																			
Melbourne, Victoria	29.59	751.6	29.68	753.9	68.0	20.0	88	se.	11	4.9	.....	.....	7	.....	.....	0.39	9.9	th'd'r l'tn'g	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.78	756.4	30.36	771.2	32.4	0.2	96	Le.	.....	.....	2	.....	10	.....	.....	0.024	0.6	rain & snow	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.64	752.9	30.46	773.7	28.4	— 2.0	84	ene.	10.5	4.7	.....	.....	10	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.47	748.6	30.41	772.4	29.3	— 1.5	70	calm	.....	.....	0	.....	9	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.02	737.2	30.34	770.6	34.2	1.2	74	s.	.....	.....	2	.....	10	.....	.....	0.154	3.9	.....	Andreas Rospini.
Hermannstadt	28.87	733.4	30.40	772.2	27.9	— 2.3	92	e.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.75	730.2	30.15	765.7	35.8	2.1	68	ene.	.....	.....	3	.....	8	.....	.....	0.031	0.8	gloomy	The Staff.
Lemberg	29.47	748.4	30.53	775.5	24.8	— 4.0	68	se.	.....	.....	2	.....	9	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.86	682.3	30.37	771.5	34.5	1.4	.....	e.	.....	.....	2	.....	0	.....	.....	0.094	2.4	.....	Dr. V. von Szontagh.
Pola	30.12	765 0	30.24	768.0	42.4	5.8	72	ene.	.....	.....	3	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.88	758.9	30.35	770.8	36.1	2.3	59	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Joseph Midlluszay, S. J.
Szegedin	30.09	764.2	30.39	771.9	28.4	— 2.0	90	ne.	.....	.....	1	.....	10	.....	.....	0	0	foggy	Karl Stancel.
Trieste	30.15	765.9	30.25	768.4	40.6	4.8	62	ne.	.....	.....	3	.....	10	.....	.....	0	0	.....	Royal Academy.
Vienna	29.57	751.1	30.33	770.3	35.1	1.7	77	se.	.....	.....	5	.....	5	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.51	749.5	29.61	752.1	41.5	5.3	69	wsw.	4	1.8	.....	.....	1	.....	.....	0.540	13.7	blue sky	W. Boswell
Armagh, Observatory	29.33	745.0	29.56	750.8	37.0	2.8	80	sse.	18	8.0	.....	.....	8	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.69	754.1	44.5	6.9	63	ssw.	12	5.4	.....	.....	1	.....	.....	.....	.....	blue sky	John Hartnup.
Bolton, Sharples	29.14	740.1	29.68	753.9	42.7	5.9	75	ssw.	12	5.4	.....	.....	3	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.29	744.0	29.68	753.9	42.3	5.7	84	sw.	.....	.....	1	.....	3	.....	.....	0.05	1.3	d. clouds	McLandsborough&Prestor.
Bridgetown, Barbadoes	30.04	763.0	30.07	763.8	81.0	27.2	66	ne.	.....	.....	5	.....	6	.....	.....	.....	.....	gloomy	Corpl.J.Surgenor, A.H.C
Cardington	29.08	753.9	29.79	750.7	47.6	8.7	77	w.	.....	.....	0.4	.....	1	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E	29.08	753.9	29.81	757.2	42.1	5.6	90	calm	.....	.....	0	.....	6	.....	.....	blank	blank	misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.61	752 1	29.84	757.9	46.3	7.9	57	ssw.	.....	.....	4	.....	9	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.57	700 3	29.80	756.9	75.0	23.9	72	e.	.....	.....	1	.....	9	.....	.....	.....	.....	overcast	Corpl. F. Milner, A. H. C.
Freetown	29.66	753.4	29.89	759.2	87.0	30.6	88	n.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	29.29	744.0	29.33	745.0	40	4.4	82	se.	.....	.....	7	.....	10	.....	.....	0.03	0.8	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.31	769.9	30.37	771.4	54.0	12.2	93	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.39	746.5	29.66	751.8	42.2	5.7	65	s.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.64	752.8	29.81	757.2	43.9	6.6	83	wsw.	.....	.....	1	.....	6	.....	.....	0.50	12.7	d. clouds	The Staff.
Guernsey	29.03	752.6	29.93	760.2	48	8.9	77	w.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S
Kew, Observatory	29.79	756.7	29.82	757.4	44.9	7.2	80	sw.	9	4.0	.....	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.49	749.0	29.76	755.9	44.6	7.0	80	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	J. C. Smith.
Malta, Mediterranean	30.13	765.3	30.21	767.3	63.2	17.3	95	sw.	.....	.....	2	.....	0	.....	.....	0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.27	768.8	30.30	769.6	74.5	23.6	87	e.	.....	.....	2	.....	4	.....	.....	blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.23	742.4	29.70	755.9	45.5	7.5	71	ssw.	.....	.....	4	.....	1	.....	.....	.....	.....	d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.57	751.1	29.80	756.9	45.3	7.4	83	wsw.	.....	.....	3	.....	2	.....	.....	.....	.....	blue sky	The Staff.
Plymouth	29.77	756.1	29.84	757.9	44.2	6.8	85	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	29.37	746 0	29.47	748.5	39.8	4.3	88	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.19	766.8	30.20	768.0	30.0	2.2	75	n.	.....	.....	2	.....	10	.....	.....	.....	.....	sleeting	W. H. Lyne.
Sheffield	29.43	747.5	29.71	754.6	46.0	7.8	69	sw.	.....	.....	1	.....	1	.....	.....	0.09	2.3	blue sky	W. F. Cooper.
Silloth Rectory	29.61	752.1	29.64	752.8	45.0	7.2	72	sw.	.....	.....	2	.....	2	.....	.....	0.205	5.2	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.72	754.9	40.8	4.9	85	sw.	9	4.0	.....	.....	6	.....	.....	.....	.....	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.60	751.8	29.81	757.2	47.2	8.4	81	w.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Rev.C.H.Griffiths, F.M.S.
Truro, Royal Institution	29.75	755.6	29.80	756.9	48	8.9	71	sw.	.....	.....	7	.....	6	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.29	744.0	29.32	744.7	44.9	7.2	88	sse.	55	24.6	.....	.....	10	.....	.....	.....	.....	raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.83	757 7	30.22	767.6	59.5	15.3	64	ssw.	6.2	2.8	.....	0	6 n	.....	ssw.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	7	—13.9	.....	calm	0	0	.....	.....	.....	.....	.....	0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.93	760.2	29.98	761.5	17	— 8.3	91	w.	13	5.8	.....	0	0	.....	.....	0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.94	760.5	30.01	762.2	4	—15.6	91	sw.	1	0.4	.....	2 k	2 ks	sw.	sw.	0	0	fair	G. A. Blair.
Cornwall	29.86	758.4	30.07	763.8	17.7	— 7.9	82	w.	.....	.....	5	.....	10 s	.....	.....	0.020	0.5	d. clouds	Jas. Smith, M. A.
Dalhousie	29.88	758 9	29.94	760.5	10.0	—12.2	.....	w.	.....	.....	3	0	3 ks	.....	.....	0	0	d. clouds	H. A. Johnson.
Father Point, Quebec*	29.93	760.2	29.95	760.7	10	—12.2	91	w.	45	20.1	.....	5 c	5 k	w.	w.	0.10	2.5	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.54	750.3	30.57	770.5	—35	—37.2	100	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton	30.01	762.2	30.08	764.0	0.1	—14.4	98	e.	3	1.3	.....	0	0	.....	.....	0	0	blue sky	Prof. Harrison, L. L. D.
Granton	29.12	739.6	30.32	770.1	11.9	—11.2	91	sw.	9	4.0	.....	0	0	.....	.....	0	0	blue sky	Jas. Grant.
Halifax, N. S*	29.97	761 2	30.11	764.8	18	— 7.8	83	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Allison.
Hamilton	29.84	757.9	30.26	768.6	16.7	— 8.5	95	sw.	.....	.....	3	2 k	0	w.	.....	0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.78	756.4	30.15	765.8	18	— 7.8	83	sw.	9	4.0	.....	0	2 s	.....	sw.	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.84	757.9	30.00	763.5	18	— 7.8	91	w.	15	0.7	.....	.....	10 n	.....	.....	0.05	1.3	light snow	C. H. McLeod, C. E.
Ottawa	29.80	756.9	30.07	763.8	7.1	—13.8	86	w.	.....	.....	1	1 cs	0	.....	.....	0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.35	745.5	30.10	764.5	13	—10.6	91	w.	4	1.8	.....	.....	10 n	.....	w.	0.40	10.2	light snow	Rev. R. Mosley.
Peterboro	29.37	746.0	30.19	766.8	14.6	— 9.7	81	w.	.....	.....	4	0	0	.....	.....	0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.55	750.6	30.31	769.9	16	— 8.9	100	sw.	16	7.2	.....	0	0	.....	.....	0	0	clear	H. Morgan.
Port Stanley, Ontario	29.64	752.8	30.34	770.6	14	—10.0	91	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	M. Payne.
Quebec, Quebec*	29.68	753.9	30.04	763.0	8	—13.3	76	w.	.....	.....	1	5 c	5 k	.....	.....	0.02	0.5	fair	Capt. Ashe, R. N
Rockliffe, Ontario*	29.54	750.3	30.06	763.5	— 6	—21.1	79	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.39	746.5	30.10	764.1	20	— 6.7	91	w.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	
St. Andrews, N. B	30.00	763 5	30.11	764.8	16	— 8.9	91	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	
St. John, N. B	29.92	760.0	30.10	764.5	16	— 8.9	83	w.	10	4.5	.....	0	0	.....	.....	0	0	blue sky	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.84	757.9	21.2	— 6.0	.....	w.	.....	.....	4	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	28.89	733.8	29.30	744.2	10.1	—12.2	90	w.	10	4.5	.....	0	0	.....	.....	0	0	blue sky	C. J. Macgregor, M. A.
Sydney, C. B*	29.92	760.0	29.99	761.7	8	—13.3	91	sw.	15	6.7	.....	0	2 k	.....	.....	0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.82	757.4	30.24	768.1	16	— 8.9	83	w.	10	4.5	.....	0	2 s	.....	.....	0	0	clear	Magnetic Observatory.
Windsor	29.96	761.0	30.07	763.8	21.0	— 6.1	.....	w.	8	3.6	.....	1 k	0	.....	.....	0	0	blue sky	Prof. W. H. Butler, M.A
Woodstock	29.16	740.7	30.32	770.1	12.6	—10.8	81	sw.	18.0	8.0	.....	1 k	0	sw.	.....	0	0	blue sky	Prof. Wolverton, M.A.
Yarmouth, N.S*	30.10	764.5	30.17	766.3	26	— 4.4	80	nw.	17	7.6	.....	2 k	0	.....	.....	0.03	0.8	clear	Lt. F. E. Wilmot, R.N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers.
Cape Colony.																			
Cape St. Francis Lt. House	29.93	760.2	29.96	761.0	71.0	21.7	83	sw.	9.3	4.2	.....	0	2 k	.....	.....	0	0	light haze	**John Duthie.**
Springbok Fontein	27.85	707.4	.....	.....	90	32.2	36	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**J. T. Eustace.**
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.56	623.9	.....	.....	25.7	— 3.5	.....	se.	.....	.....	2	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.39	771.8	30.50	774.6	30.2	— 1.0	100	s.	.....	.....	1	.....	10	.....	.....	0.083	2.1	covered	R. P. Desarmont, S. J.
Zi-Ka-Wei, near Shanghai	30.45	773.5	30.48	774.2	36.7	2.6	85	n.	2.2	1.0	.....	.....	10	.....	.....	0	0	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.22	767.7	30.27	768.9	30.4	— 0.9	80	se.	36	16	.....	.....	9	.....	.....	.....	.....	.....	**Oversergent Fischer.**
Fanoe	29.93	760.2	29.95	760.7	32.9	0.5	92	sse.	.....	.....	7	.....	10	.....	.....	.....	.....	raining	**Overloerer Lauridsen.**
Godthaab, Greenland	29.11	739.3	29.15	740.4	—11.4	—24.1	91	sse.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	29.13	739.8	29.15	740.3	—13.7	—25.4	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.19	741.4	29.24	742.6	— 9.2	—22.9	.....	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.02	737.0	29.06	738.1	27.7	— 2.4	89	e.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.34	745.3	29.38	746.2	38.3	3.5	87	sw.	20	9	.....	.....	5	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Vestervig	29.87	758.7	29.96	761.0	32.0	0.0	79	ese.	.....	.....	8	.....	10	.....	.....	.....	.....	.....	**Loerer Oesterbol.**
Upernavik, Greenland	29.05	737.9	29.10	739.1	0.1	—17.8	.....	ssw.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	29.55	750.6	30.20	767.0	56.5	13.6	82	se.	.....	.....	1	.....	8 n	.....	sw.	0.299	7.6	very cloudy	M. Labroue, Director.
Alençon, Normal School	29.44	747.7	29.99	761.7	45.0	7.2	88	se.	.....	.....	1	.....	kn	ne.	ne.	0.20	5.	.....	M. Nicot, Director.
Arras, Engineer School	29.64	752.9	29.91	759.6	44.2	6.8	96	w.	.....	.....	4	.....	10	.....	.....	0.472	12.0	covered	**M. Fénéon, Command't.**
Avignon, Normal School	29.97	761.3	30.05	763.3	54.0	12.2	83	se.	.....	.....	2	.....	8	.....	sse.	0	0	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.37	746.1	29.94	760.4	50.9	10.5	71	ssw.	.....	.....	1	.....	10	.....	ssw.	0.067	1.7	covered	M. Saillard, Director.
Beauvais, Normal School	29.63	752.6	29.90	759.5	45.1	7.3	88	wnw.	.....	.....	1	.....	10	.....	wnw.	0.146	3.7	covered	M. Frère Eugène Marié
Besançon, Normal School	29.07	738.2	29.97	761.1	55.4	13	79	sw.	.....	.....	4	.....	kn	.....	ne.	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	29.87	758.8	30.14	765.5	53.4	11.9	57	w.	.....	.....	2	.....	5	.....	w.	0.043	1.1	cloudy	M. Rayet, Director.
Bourges, Normal School	29.48	748.7	30.04	763.0	43.7	6.5	85	w.	.....	.....	2	.....	n	.....	.....	0.185	4.7	.....	M. Malet, Director.
Brest, Naval Observatory	29.76	755.8	30.00	762.0	49.6	9.8	81	sw.	.....	.....	2	.....	6	.....	sw.	0.598	15.2	.....	M. de Kermarec, Dir.
Caen, Normal School	29.65	753.2	29.73	755.1	48.6	9.2	79	ne.	.....	.....	2	.....	5	.....	nne.	0.327	8.3	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.55	750.5	29.87	758.8	49.5	9.7	89	s.	.....	.....	2	.....	10	.....	.....	0.224	5.7	covered	M. Jadot, Director.
Charleville, Normal School	29.31	744.4	29.83	757.6	46.8	8.2	70	sse.	.....	.....	1	.....	10	.....	.....	0.47	12.	covered	M. Grimard, Director.
Clermont-Ferraud Obs'y	28.69	728.7	30.07	763.7	46.4	8.0	75	sw.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Allnard, Director.
Cluny, Normal School	29.15	740.3	30.00	762.0	55.4	13	61	s.	.....	.....	2	.....	9	.....	s.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.08	738.6	29.95	760.6	50.0	10	81	sw.	.....	.....	1	5 cs	.....	sw.	sw.	0.091	2.3	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.56	700.0	30.16	766.6	43.5	6.4	65	calm	.....	.....	0	.....	10 n	.....	.....	0.118	3.0	.....	M. Jeangirard, Director.
Gréusque, du Rhone	28.97	735.9	30.11	764.9	48.4	9.1	94	e.	.....	.....	2	.....	10	.....	e.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.26	743.2	30.04	763.1	51.4	10.8	65	nne.	.....	.....	1	ck	0	s.	.....	0	0	.....	M. Ablard, Director.
Guéret	28.31	719.0	29.93	760.1	44.2	6.8	73	sw.	.....	.....	2	0	5 k	.....	sw.	0	0	cloudy	**M. Delorme, Dir.**
Lamballe, Normal School	29.80	757.0	30.08	764.0	48.9	9.4	66	wsw.	.....	.....	4	.....	10	.....	wsw.	0.728	18.5	covered	M. Ollitrault, Director.
Lescar, Normal School	29.61	752.2	30.19	766.7	48 6	9.2	71	wsw.	.....	.....	1	5 c	0	.....	.....	0.516	13.1	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.95	760.6	30.05	763.2	50.4	10.2	72	w.	.....	.....	1	.....	8	n.	w.	0.276	7.0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.93	734.9	29.99	761.8	53.1	11.7	65	ssw.	.....	.....	3	.....	10 n	.....	se	0	0	covered	M. André, Director.
Mans, Normal School	29.71	754.5	29.82	757.3	47.7	8.7	65	nw.	.....	.....	4	.....	2	.....	nw.	0.055	1.4	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.81	757.1	30.08	764 0	54.5	12.5	86	ese.	.....	.....	2	.....	10	.....	ese.	inap.	inap.	.....	M. Stephan, Director.
Montlouis	24.79	629.7	29.63	752.7	35.2	1.8	68	ne.	9.4	4.2	.....	.....	9	e.	.....	0	0	.....	**M. Caré for Dr. Fines.**
Montpellier, Normal School	29.87	758.7	30.00	762.0	54.9	12.7	98	nne.	.....	.....	4	.....	5	.....	se.	0.55	14.	cloudy	M. Galzin, Director.
Nancy, Normal School	29.11	739.5	29.90	759.5	50.0	10.0	74	ssw.	.....	.....	2	.....	kn	.....	.....	0.110	2.8	.....	M. Hasse, Director.
Nantes, Observatory	29.90	759.5	30.06	763.6	53.2	11.8	59	wsw.	.....	.....	0–1	0	7 ckn	.....	.....	0.012	0.3	.....	M. Larocque, Director.
Perpignan, Observatory	29.97	761.3	30.09	764.2	49.8	9.9	59	n.	20.6	9.2	.....	.....	10	.....	wsw.	0.012	0.3	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.11	536.2	.....	.....	15.1	— 9.4	.....	ne.	.....	.....	1	.....	.....	.....	ne.	0.197	5.0	.....	**M. Vaussenat, Director.**
Privas, Normal School	28.99	736.4	30.07	763.8	50.0	10	89	ne.	.....	.....	4	.....	10	sw.	sw.	0.157	4.0	covered	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.02	635.6	.....	.....	30.2	— 1.0	100	w.	.....	.....	6	.....	10	.....	.....	0.024	0.6	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	30.05	763.2	30.08	764 0	50.0	10.0	79	wsw.	.....	.....	2	.....	10	.....	w.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.84	757.8	30.06	763.4	48.6	9.2	81	sw.	.....	.....	1	.....	5	.....	ne.	0.106	2.7	cloudy	M. Brotier, Director.
Rodez, Normal School	27.94	709.6	30.11	764.7	49.3	9.6	86	se.	.....	.....	2	.....	10	.....	.....	0.087	2.2	covered	M. Seger, Director.
Rouen, Normal School	29.63	752.7	29.68	753.9	47.1	8.4	77	w.	.....	.....	3	.....	10	w.	.....	0.059	1.5	covered	M. Moullot.
Saint Lô	.....	.....	.....	.....	48.7	9.3	73	sw.	.....	.....	0.5	.....	5	.....	sw.	0.378	9.6	cloudy	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.75	755.7	29.92	759.9	44.4	6.9	95	wnw.	.....	.....	1	.....	10	.....	.....	0.146	3.7	.....	M. Renou, Director.
Toulouse, Observatory	29.49	749.0	30.22	767.5	46.0	7.8	94	sw.	.....	.....	1	.....	10	w.	.....	0.295	7.5	raining	M. Baillaud, Director.
Tours	29.85	758.2	30.03	762.7	49.3	9.6	71	wsw.	.....	.....	2	.....	5	s.	w.	0.008	0.2	cloudy	M. de Tastes.
Versailles, Observatory	29.43	747.4	29.92	759.9	43.5	6 4	94	nw.	.....	.....	3	.....	.....	.....	.....	0.130	3.3	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.07	763 7	30.22	767.5	51.8	11.0	68	nw.	21.7	9.7	.....	.....	7 k	w.	wnw.	0.906	23.0	.....	**M. Cartier, Director.**
German.																			
Ansbach	28 61	726 7	30.11	764.9	37.0	2.8	77	se.	.....	.....	2	.....	10	se.	.....	0.020	0.5	.....	**Prof. Jnedt.**
Bamberg	29.24	742.8	30.09	764.3	37.6	3.1	77	se.	.....	.....	2	0	9 ks	.....	.....	0.039	1.0	raining	Prof. Dr. Hoh.
Berlin	30.10	764.6	30.25	768.4	35.8	2.1	57	e.	.....	.....	5	.....	1	.....	.....	0	0	.....	**Meteorological Institute.**
Breslau	29.85	758.2	30.39	771.9	30.4	— 0.9	80	ese.	.....	.....	3	.....	1	.....	.....	0	0	.....	Royal University Obs'y
Carlsruhe	29.57	751.0	30.04	762.9	43.7	6.5	84	sw.	.....	.....	1	.....	10	sw.	.....	0.181	4.6	.....	Albert Senz.
Cassel	29.29	743.9	30.00	762.0	38.5	3.6	83	s.	.....	.....	2	.....	8	s.	.....	0.106	2.7	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.68	753.8	30.05	763.3	41.9	5.5	72	ese.	.....	.....	1	.....	7	.....	.....	0.122	3.1	.....	**Physical Society.**
Friedrichshafen	28.61	726.6	30.08	764.1	41.4	5.2	81	ne.	.....	.....	2	.....	10	sw.	.....	0.311	7.9	.....	Wilhelm, Chief Tel.
Hamburg	29.97	761.2	30.06	763.5	33.1	0.6	82	ese.	.....	.....	7	.....	10	.....	.....	0	0	.....	E. Preller.
Kiel	30.05	763.2	30.06	763.6	35.1	1.7	66	ese.	.....	.....	4	.....	10	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.73	755.2	30.17	766.3	36.0	2.2	62	se.	.....	.....	2	.....	8	wsw.	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	29.93	760.3	30.13	765.3	36.7	2.6	58	e.	.....	.....	3	.....	10	w.	.....	0	0	foggy	**Dr. Assmann.**
Memel	30.60	777.1	30.64	778.3	17.8	— 7.9	97	se.	.....	.....	3	0	1 k	.....	.....	.....	.....	.....	Issermann.
Munich	28.22	716.9	30.09	764.3	35.1	1.7	72	se.	.....	.....	2	.....	9	e.	.....	0.035	0.9	.....	**Central Station.**
Neufahrwasser	30.57	776.5	30.55	776.0	27.1	— 2.7	81	se.	.....	.....	3	.....	10	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.45	748.1	29.98	761.5	42.1	5.6	88	se.	.....	.....	1	.....	10	.....	.....	0	0	.....	Dicknether.
Stuttgart	29.66	738.2	29.97	761.3	45.1	7.3	82	e.	.....	.....	1	.....	10	.....	.....	0.154	3.9	raining	Prof. Dr. Schoder.
Wustrow	30.24	768.1	30.26	768.7	33.4	0.8	85	ese.	.....	.....	5	0	3 8	.....	.....	0	0	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.82	757.3	30.21	767.2	54.0	12.2	.....	n.	.....	.....	1.0	.....	9	.....	.....	0.016	0.4	covered	**Schmidt & Wourlisch.**
Indian.																			
Kurrachee	29.93	760.3	29.98	761.8	74.7	23.7	52	wsw.	17.0	7.6	.....	.....	0	.....	.....	0	0	blue sky	
Deesa	29.43	747.5	29.90	759.6	80.9	27.2	23	nnw	10.0	4.5	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.86	758.5	29.90	759.5	79.8	26.6	53	nnw.	17.0	7.6	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.99	711.0	29.81	757.3	89.2	31.8	23	w.	15.0	6.7	.....	.....	1	wsw.	.....	0	0	d. clouds	
Belgaum	27.32	694.0	29.84	758.0	79.9	26.6	45	wsw.	10.0	4.5	.....	.....	4	.....	w.	0	0	d. clouds	
Lahore	29.17	740.9	29.94	760.3	66.0	19.2	29	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	28.98	736.0	29.90	759.5	66.8	19.3	50	w.	.....	.....	.....	.....	0	.....	.....	0	0	.....	
Agra	29.38	740.3	29.96	761.0	72.2	22.3	28	w.	.....	.....	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.89	731.4	29 82	757.5	88.5	31.4	27	ssw.	6.0	2.7	.....	.....	3	w.	.....	0	0	d. clouds	
Jubbulpore	28.52	724.5	29.88	759.0	79.0	26.1	38	n.	4.0	1.8	.....	.....	4	.....	nw.	0	0	d. clouds	
Lucknow	29.57	751.0	29.96	761.9	66.3	19.1	52	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.62	752.2	29.94	760.4	68.5	20.3	48	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.74	755.5	29.94	760.3	70.1	21.2	45	wnw.	3.2	1.4	.....	.....	4	wnw.	wnw.	0	0	d. clouds	
Hazaribagh	27.90	708.5	29.96	760.9	66.4	19.1	36	nnw.	5.6	2.5	.....	.....	0	.....	.....	0	0	blue sky	

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec.	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.84	758.0	29.92	760.0	81.0	27.2	57	sse.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.92	760.0	29.95	760.6	74.5	23.6	46	w.	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.82	757.5	29.95	760.6	68.4	20.2	58	calm	0.1	0.04	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.88	758.9	29.97	761.3	68.6	20.3	61	calm	3.3	1.5	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.65	753.0	30.00	761.9	61.9	16.6	89	sw.	2.0	0.9	.....	.....	10	w.	w.	0	0	d. clouds	
Jeypore	28.48	723.3	29.95	760.6	71.7	22.1	37	wnw.	5.0	2.2	.....	.....	0	.....	.....	0	0	blue sky	
Bellary	28.39	721.1	.....	.....	88.5	31.4	28	e.	0	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.65	753.1	.....	.....	83.0	28.3	33	e.	1	0.4	.....	.....	0	.....	.....	0	0	blue sky	
ITALIAN.																			
Udine	29.85	758.3	30.28	769.0	39.6	4.2	61	e.	7.4	3.3	.....	.....	10	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.73	755.2	30.27	768.8	42.4	5.8	76	se.	3.1	1.4	.....	.....	10	ene.	.....	0	0	.....	Prof. Schiapparelli.
Padua	30.17	766.2	30.28	769.1	41.4	5.2	66	nne.	6.3	2.8	.....	.....	10	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.32	744.7	30.26	768.7	41.7	5.4	84	se.	0	0	.....	.....	10	.....	.....	0.035	0.9	.....	Prof. F. F. Denza.
Genoa	29.98	761.5	30.18	766.5	43.7	6.5	81	ne.	6.9	3.1	.....	.....	10	se.	.....	0.020	0.5	.....	Prof. G. M. Garibaldi.
Mondovi	28.27	718.0	30.26	768.5	40.1	4.5	68	wnw.	.....	.....	2	.....	9	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.18	766.5	30.23	767.8	43.9	6.6	82	n.	3.8	1.7	.....	.....	10	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.91	759.8	30.17	766.4	49.5	9.7	80	nw.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	30.01	762.2	30.10	764.4	50.4	10.2	81	ne.	8.1	3.6	.....	.....	10	s.	.....	0	0	.....	Prof. P. Monte.
Rome	30.00	762.1	30.18	766.6	54.7	12.6	68	s.	0	0	.....	.....	10	.....	.....	0.008	0.2	.....	Prof. P. Tachini.
Lecce	29.98	761.4	30.24	768.0	53.4	11.9	62	ene.	9.8	4.4	.....	.....	4	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.34	745.1	30.24	768.1	54.0	12.2	76	sse.	1.8	0.8	.....	.....	9	se.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.90	759.4	30.10	764.4	58.3	14.6	78	sse	.....	.....	2	.....	4	w.	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.95	760.7	30.20	767.1	59.4	15.2	55	ne.	3.8	1.7	.....	.....	2	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	30.17	766.3	30.21	767.4	57.9	14.4	65	sw.	2.5	1.1	.....	.....	3	w.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.68	753.9	30.22	767.5	56.3	13.5	68	ese.	0	0	.....	.....	9	wnw.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.15	562.6	.....	.....	24.3	— 4.3	86	w.	.....	.....	2	.....	5	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.15	562.5	.....	.....	33.4	0.8	63	nw.	.....	.....	2	.....	8	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.13	765.2	30.16	766.0	23.8	— 4.8	88	calm	.....	.....	0	0	0	.....	.....	0.248	6.3	clear	H. Hattori.
Awomori	30.11	764.8	30.15	765.8	20.6	— 6.3	61	nw.	7.2	3.2	.....	0	1 s	.....	.....	0.075	1.9	clear	K. Ogawa.
Hakodate	30.13	765.3	30.14	765.6	25.0	— 3.9	94	n.	20.4	9.1	.....	4	0	.....	.....	0	0	.....	
Hamamatsu	30.23	767.8	30.26	768.6	33.5	0.8	56	nw.	.....	.....	4	0	0	.....	.....	0	0	clear	
Kagoshima	30.31	770.0	30.33	770.3	41.2	5.1	77	n.	.....	.....	2	.....	10 s	.....	.....	0	0	overcast	G. Miyanonasa.
Kioto	30.17	766.4	30.30	771.1	29.1	— 1.6	85	nw.	1.5	0.0	.....	0	2 s	.....	.....	0	0	clear	M. Tojima.
Kochi	30.30	769.6	30.32	770.1	37.0	2.8	81	n	2.5	1.1	.....	.....	10	.....	.....	0	0	overcast	K. Kusunose.
Miasaka	30.29	769.2	30.31	769.9	41.0	5.0	76	calm	.....	.....	0	.....	10 s	.....	w.	0	0	covered	K. Masusaki.
Nagasaki, I. M. Obs'y	30.13	765.4	30.35	770.8	38.1	3.4	74	n.	0.6	0.3	.....	0	1 s	.....	.....	0	0	clear	S. Takehayashi.
Niigata	30.22	767.6	30.26	768.6	32.0	0.0	79	w.	10.5	7.3	.....	0	2 ck	.....	w.	0.190	4.8	fair	M. Moritta.
Nobiru	30.12	765.0	30.13	765.4	29.5	— 1.4	73	n.	13.0	5.8	.....	.....	9 n;ks	.....	.....	0.030	0.8	snowy	H. Midzushina.
Numazu	30.16	766.0	30.19	766.9	33.1	0.6	60	ene.	.....	.....	2	0	0	.....	.....	0	0	clear	R. Kaneda.
Osaka	30.35	771.0	30.37	771.4	30.8	— 0.7	68	ne.	8.6	3.8	.....	8 cs	0	.....	.....	0	0	cloudy	H. Omura.
Sakai	30.36	771.2	30.37	771.5	35.0	2.0	77	ese.	.....	.....	2	.....	10 n	.....	.....	0.118	3.0	light snow	K. Yamawchi.
Sapporo	.....	.....	.....	.....	19.4	— 7.0	88	calm	0	0	.....	.....	4	.....	.....	0	0	.....	
Tokei Obs'y, Yeddo	30.14	765.6	30.22	767.7	30.8	— 0.7	89	nnw.	12.6	5.6	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	30.31	769.9	30.37	771.3	32.7	0.4	70	ne.	3.8	1.7	.....	4 ck	6 s;n	.....	.....	0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.68	753.9	29.86	758.4	82.6	28.1	71	ne.	15.5	6.9	.....	0	4 ks;kn	.....	nne.	0.03	0.8	fair	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	53	11.7	93	nw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. Diaz Pena.
Guanajuato	23.74	603.0	29.90	761.0	56.7	13.7	68	nw.	inap.	inap.	.....	2 cs	0	.....	.....	0	0	light haze	Prof. Vicente Fernandez.
Leon	24.40	619.7	30.23	767.8	47.5	8.6	82	ne.	.....	.....	1	1 c	0	.....	.....	0	0	clear	Prof. M. Leal.
Muzatlan	29.75	755.6	30.02	762.3	61.0	16.1	85	nw.	5.3	2.3	.....	0	0	.....	.....	0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.6	30.34	770.6	48.2	9.0	78	nw.	0.2	0.1	.....	0	0	.....	.....	0	0	fine	The Staff.
Morelia	24.38	619.3	30.35	770.8	52.0	11.1	64	e.	.....	.....	2	0	0	.....	.....	0	0	fine	M. Tena, M. D.
Pabellon	24.02	610.1	30.07	763.8	54.5	12.5	56	calm	.....	.....	0	0	1 s	.....	.....	0	0	clear	
Puebla, Catholic Institute	23.45	595.7	30.34	770.6	44.0	7.0	46	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
Zacatecas	22.57	573.3	30.27	768.8	50.9	10.5	52	e.	7.2	3.2	.....	0	0	.....	.....	0	0	fine	I. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.76	756.0	29.76	756.0	47.7	8.7	.....	ssw.	.....	.....	4	.....	.....	.....	.....	0.378	9.6	.....	
Groningen	29.79	756.7	29.85	758.1	38.8	3.8	.....	se.	.....	.....	4	.....	.....	.....	.....	0.579	14.7	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.007	1.7	.....	
Hellevoetsluis	29.76	756.0	29.76	756.0	46.6	8.1	97	ssw.	.....	.....	2	.....	.....	.....	.....	0.378	9.6	.....	
Utrecht	29.78	756.3	29.82	757.5	44.4	6.9	94	sse.	.....	.....	2	.....	10	.....	.....	0.268	6.8	dull	H. van der Brink
Sub-series.																			
Batavia, Java	29.87	758.7	.....	.....	75.7	24.3	97	nw.	0	0	.....	.....	10	.....	.....	1.06	27.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.75	755.6	29.81	757.2	37.4	3.0	73	w.	2	1	.....	.....	10	.....	.....	0.606	15.4	raining	
Brono	29.93	760.2	29.97	761.2	32.4	0.2	46	ssw.	.....	.....	6	.....	9	.....	.....	0	0	.....	
Christiania	30.18	766.0	30.34	770.0	28.4	— 2.0	78	ese.	7	3	.....	.....	10	.....	.....	blank	blank	.....	
Gjæsvær	29.93	760.2	29.95	760.8	31.1	— 0.5	.....	sw.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	
Lodingen	29.98	761.5	30.03	762.7	30.0	— 1.1	72	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	29.97	761.2	30.13	765.2	59.7	15.4	89	w.	19.2	8.6	.....	.....	5	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.32	744.7	30.35	770.9	48.6	9.2	68	wnw.	8.1	3.6	.....	.....	7	.....	.....	0.236	6.0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.39	771.9	30.48	774.2	61.3	16.3	53	sse.	4.9	2.2	.....	.....	10	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.06	763.5	30.43	772.9	52.2	11.2	53	sw.	0.4	4.2	.....	.....	4	.....	.....	0.323	8.2	.....	The Staff.
Ponta Delgada, Azores	30.18	766.6	30.25	768.4	66.8	19.6	78	wsw.	19.2	8.6	.....	.....	3	nne.	.....	0.059	1.5	.....	
Saint Paul de Loando	29.73	755.2	29.93	760.2	84.2	29.0	86	wnw.	0.7	0.3	.....	.....	9	.....	.....	0	0	solar halo	
Serra da Estrella	25.39	644.8	30.40	772.1	25.3	— 3.7	100	wnw.	.....	.....	4	.....	9	.....	.....	blank	blank	foggy	
RUSSIAN.																			
Akmolinski	28.52	724.4	29.73	755.2	— 9.2	—22.9	92	sw.	4	2	.....	0	8 k	.....	.....	0.012	0.3	.....	Major K. Lasarew.
Archangel	30.39	772.0	30.41	772.5	15.4	— 9.2	88	w.	9	4	.....	10	.....	.....	.....	0	0	.....	Capt. Sselliwerstow.
Ashuruda	30.44	773.2	30.35	770.8	30.7	2.6	85	nne.	20	9	.....	10 n	0	.....	.....	0.110	2.8	.....	
Astrakhan	30.50	770.3	30.48	774.2	13.0	—10.2	00	w.	7	3	.....	0	8 kn	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.51	775.0	30.47	773.8	30.2	— 1.0	76	n.	22	10	.....	0	.....	.....	.....	0	0	.....	
Barnaul	29.31	744.5	29.80	758.4	5.0	—15.0	86	ne.	4	2	.....	.....	10	.....	.....	0.106	2.7	.....	Meteorological Obs'y.
Bielosersk	30.04	763.1	30.57	770.4	5.7	—14.6	82	wnw.	4	2	.....	0	1 s	.....	.....	0	0	.....	
Dorpat	30.43	772.8	30.70	779.7	8.6	—13.0	100	calm	0	0	.....	0	0	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.58	726.0	29.60	751.8	18.3	— 7.6	100	n.	9	4	.....	.....	10	.....	.....	inap.	inap.	snowing	Meteorological Obs'y.
Elissawetgrad	30.08	764.0	30.57	776.5	15.6	— 9.1	75	nne.	4	2	.....	3 cs	0	.....	.....	0	0	.....	
Irkutsk	28.33	719.6	30.15	765.7	1.0	—16.9	81	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Kasalinsk	29.49	749.0	29.67	753.5	6.1	—14.4	00	n.	4	2	.....	0	0	.....	.....	.....	.....	.....	
Kasan	29.78	756.4	30.07	763.7	27.3	— 2.6	71	nnw.	13	6	.....	.....	10	.....	.....	blank	blank	.....	Observatory.
Kem	30.41	772.3	30.46	773.0	10.6	—12.2	81	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Kertch	30.29	769.3	30.31	769.8	25.9	— 3.4	82	ene.	4	2	.....	0	5 k	.....	.....	0	0	.....	Lagorio & Sastyrez.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Kieff	29.91	759.7	30.61	777.6	14.2	— 9.9	87	ne.	7	3	.....	.....	10 n	.....	.....	0.004	0.1	snowing	Observatory.
Koslov	29.89	759.3	30.47	774.0	13.5	—10.3	82	wnw.	13	6	.....	.....	9 s	.....	.....	.....	.....	snowing	
Liban	30.60	777.1	30.62	777.7	20.7	— 6.3	78	se.	4	2	.....	.....	0	.....	.....	0	0	.....	**E. Quaas.**
Lugan	30.29	769.3	30.50	774.6	7.5	—13.6	64	sw.	9	4	.....	.....	0	.....	.....	0	0	.....	**Meteorological Obs'y.**
Moscow	30.00	761.9	30.53	775.5	10.9	—11.7	85	calm	0	0	.....	.....	10 s	.....	.....	0	0	.....	**Meteorological Obs'y**
Nikolaiev	30.39	771.9	30.47	773.8	16.9	— 8.4	70	ne.	18	8	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.43	772.9	30.52	775.1	—20.9	—29.4	74	calm	0	0	.....	.....	0	.....	.....	0	0	.....	**Iwanow.**
Pekin, China	30.32	770.0	30.47	773.8	27.1	— 2.7	83	calm	0	0	.....	.....	9 n	.....	.....	0.079	2.0	.....	**Physical Observatory.**
Petro-Alexandrovsk	29.90	759.4	30.28	769.1	18.0	— 7.8	60	nw.	7.8	3.5	.....	10 c	0	.....	.....	0	0	.....	
Petrozavodsk	30.31	769.9	30.53	775.5	5.0	—15.0	77	calm	0	0	.....	0	0	.....	.....	0	0	.....	**Dr. Bergmann.**
Pinsk	30.10	764.5	30.64	778.2	22.5	— 5.3	73	ene.	9	4	.....	.....	10 s	.....	.....	0	0	.....	
Poti	30.12	765.0	30.14	765.5	55.4	13.0	70	e.	4	2	.....	0	2 s	.....	.....	0.130	3.3	.....	
St. Petersburg	30.64	778.3	30.66	778.7	2.3	—16.5	90	nw.	4	2	.....	0	0	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.51	698.7	30.05	763.2	38.7	3.7	54	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	.....	
Semipalatinsk	29.17	741.0	29.87	758.6	13.6	—10.2	93	ssw.	4	2	.....	.....	10	.....	.....	0.063	1.6	.....	Major **Lasarew.**
Sevastopol	30.01	762.2	30.24	768.2	36.5	2.5	84	sw.	7	3	.....	.....	10 n	.....	.....	0	0	heavy cl'ds.	
Staroi Bykhov	30.15	765.8	30.65	778.6	20.1	— 6.6	68	sse.	4	2	.....	.....	10 ks	.....	.....	inap.	inap.	light clouds	
Tashkend	28.37	720.5	30.11	764.8	34.3	1.3	70	calm	0	0	.....	.....	10 n	.....	.....	0	0	.....	**Terch, A. M.**
Tiflis	28.89	733.9	30.37	771.5	38.8	3.8	80	se.	7	3	.....	.....	9 n	.....	.....	0.165	4.2	.....	Physical Observatory.
Vernoe	27.34	694.4	29.96	761.0	26.4	— 3.1	83	ne.	9	4	.....	.....	10 n	.....	.....	.....	.....	.....	
Viatka	29.39	746.6	30.06	763.4	27.1	— 2.7	.....	n.	7	3	.....	.....	10	.....	.....	0	0	.....	
Vladivostock	30.38	771.6	30.45	773.3	— 6.9	—21.6	42	n.	9	4	.....	.....	0	.....	.....	0	0	.....	
Warsaw	30.10	764.5	30.56	776.1	24.4	— 4.2	77	ese.	13	6	.....	.....	10	.....	.....	0	0	heavy cl'ds.	Astronomical Obs'y.
Wilna	30.21	767.4	30.67	779.1	17.6	— 8.0	80	s.	2	1	.....	.....	0	.....	.....	0	0	.....	**Berg, Assistant.**
Yeniseisk	29.84	758.0	30.18	766.6	—22.2	—30.1	75	w.	2	1	.....	.....	1	.....	.....	0	0	.....	**M. O. Marks.**
Scottish.																			
Monach Lt	.....	.....	29.38	746.2	44	6.7	92	s.	.....	.....	1	.....	10	.....	.....	0.3	8.	showery	J. Youngclauss.
North Unst	.....	.....	29.42	747.3	.....	.....	.....	s.	.....	.....	6	5	3	s.	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.94	760.4	30.05	763.2	53.1	11.7	85	e.	2.2	1.0	.....	.....	10	.....	.....	0.020	0.5	raining	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.17	766.4	30.23	767.9	54.7	12.6	60	nw.	5.8	2.6	.....	3	2	n.	.....	0.339	8.6	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.21	691.0	30.28	769.2	40.1	4.5	60	n.	12.8	5.7	.....	0	3	.....	.....	0.346	8.8	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.94	709.7	30.22	767.5	48.0	8.9	57	s.	9.8	4.4	.....	0	2	.....	.....	0.047	1.2	clouds	The Staff.
Murcia, Met. Obs'y	29.99	761.7	30.13	765.4	55.8	13.2	67	wnw.	6.9	3.1	.....	2	5	ese.	.....	0.059	1.5	cloudy	Olayo Diaz, Director.
Oviedo	29.37	745.9	30.26	768.7	42.8	6.0	68	e.	5.1	2.3	.....	9 k	4 n	n.	ne.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.28	743.8	30.21	767.2	46.4	8.0	74	s.	17.4	7.8	.....	.....	9	.....	.....	0.854	21.7	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.93	760.1	29.98	761.6	78.0	25.6	74	ese.	4.4	2.0	.....	.....	1 ks	.....	.....	0.059	1.5	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.34	770.6	30.44	773.2	54.3	12.4	59	nw.	9.8	4.4	.....	0	0	.....	.....	0.022	0.6	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.11	764.8	30.20	767.1	75.6	24.2	86	e.	15.7	7.0	.....	5 c	3 k	e.	e.	0.079	2.0	d. clouds	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	30.47	773.9	30.51	774.9	14.4	— 9.8	100	s.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Umea	30.47	773.9	30.52	775.2	21.0	— 6.1	100	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Hernosand	30.41	772.5	30.47	773.8	25.5	— 3.6	87	sw.	.....	.....	2	.....	9	.....	.....	0	0	.....	
Stockholm	30.35	771.0	30.53	775.5	29.1	— 1.6	72	s.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Wisby	30.48	774.3	30.54	775.8	28.8	— 1.8	80	ssw.	.....	.....	2	.....	5	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.41	772.5	30.50	774.7	27.5	— 2.5	85	sse.	16.1	7.2	.....	.....	10	.....	s.	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	28.62	726.9	30.06	763.4	50.0	10.0	68	ne.	.....	.....	2	.....	9	.....	.....	0	0	.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.30	769.6	35.6	2.0	73	nnw.	9	4.0	.....	.....	10	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	30.26	768.5	51.4	10.8	.....	ne.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.08	764.1	64.9	18.3	68	sw.	.....	.....	1	.....	2 ks	.....	s.	0	0	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred L. Kingsbury.
United States.																			
Albany, New York	30.23	767.8	30.32	770.1	20	— 6.7	73	s.	4	1.8	.....	4 cs	9	w.	.....	0	0	fair	J. O. Barnes.
Alpena, Michigan	29.49	749.0	30.20	767.1	11	—11.7	80	w.	14	6.3	.....	.....	10 n	.....	.....	0.10	2.5	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.07	636.8	30.17	766.3	19	— 7.2	61	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.42	696.5	30.46	773.7	0	—17.8	72	sw.	16	7.2	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.20	741.7	30.42	772.7	44.0	6.7	68	ne.	7	3.1	.....	.....	10 k	.....	sw.	0	0	cloudy	H. C. Smyth.
Atlantic City, New Jersey	30.44	773.2	30.45	773.4	30	— 1.1	68	W.	4	1.8	.....	6 cs	0	.....	.....	0	0	fair	Jas. M. Watson.
Augusta, Georgia	30.26	768.6	30.46	773.7	52	11.1	80	calm	0	0	.....	.....	10 s	.....	sw.	0	0	cloudy	John Healy.
Baltimore, Maryland	30.46	773.7	30.50	774.7	33	0.6	68	w.	2	0.9	.....	5 cs	fg.	w.	.....	0	0	fair	Geo W Felger.
Barnegat, New Jersey	30.44	773.2	30.46	773.7	28.0	— 2.2	77	w.	14	6.3	.....	6 ck	0	w.	.....	0	0	fair	G. A. Hill.
Behring Id., Behring Sea	30.38	771.6	30.40	772.1	14.7	— 9.6	.....	nw.	6	2.7	.....	.....	10 n	.....	.....	0	0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.87	733.3	30.60	777.2	— 3	—19.4	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.43	690.7	30.43	772.9	1	—17.2	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Billings, Montana	27.07	687.6	.....	.....	— 4	—20.0	50	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Bismarck, Dakota	28.50	723.9	30.49	774.4	3	—16.1	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.34	770.6	30.37	771.4	30	— 1.1	68	W.	15	6.7	.....	4ck;cs	0	w.	.....	0	0	fair	J. T. Elker.
Boise City, Idaho	27.45	697.2	30.41	772.4	2	—16.7	87	calm	0	0	.....	0	0	.....	.....	0.07	1.8	clear	B. E. Light.
Boston, Massachusetts	30.15	765.8	30.31	769.9	27.0	— 2.8	64	sw.	7	3.1	.....	7 cs	ck.	w.	.....	0	0	fair	O. B. Cole.
Brownsville, Texas	30.16	766.1	30.21	767.3	47.0	8.3	86	n.	6	2.7	.....	.....	10 s	.....	.....	0.29	7.4	cloudy	M. McCarty.
Buffalo, New York	29.49	749.0	30.29	769.4	18	— 7.8	83	sw.	30	13.4	.....	0	1 ks	.....	sw.	0	0	clear	W. Finn.
Buford, Fort, Dakota	28.33	719.6	30.51	774.9	— 4	—20.0	68	W.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	F. A. Mellen.
Burlington, Vermont	29.80	756.9	30.11	764.8	22.3	— 5.4	72	s.	12	5.4	.....	1 cs	9 s	W.	W.	inap.	inap.	cloudy	D. N. Farnell.
Cairo, Illinois	30.06	763.5	30.48	774.2	29.0	— 1.7	82	e.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	W. H. Ray.
Cape Henry, Virginia	30.48	774.2	30.50	774.7	40	4.4	82	s.	5	2.2	.....	9 ck	1 s	sw.	.....	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.47	773.9	30.50	774.7	39.0	3.9	73	s.	11	4.9	.....	5 cs	0	sw.	.....	0	0	fair	W. E. Smith.
Cape Mendocino, California	29.40	746.7	30.10	764.5	37	2.8	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.32	770.1	30.34	770.6	65	18.3	90	ne.	5	2.2	.....	0	5 s	.....	e.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.63	752.6	30.50	774.7	19.2	— 7.1	70	n.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.35	770.9	30.41	772.4	51	10.6	93	ne.	6	2.7	.....	.....	10 s	.....	ne.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.58	751.3	30.46	773.7	42.0	5.6	73	s.	2	0.9	.....	.....	10 s	.....	e.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.58	751.3	30.44	773.2	41.0	5.0	65	ne.	2	0.9	.....	8 cs	0	W.	.....	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.14	613.1	30.39	771.9	— 2.8	—19.3	70	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.72	754.9	30.47	773.9	10.0	—12.2	70	sw.	11	4.9	.....	0	0	.....	.....	0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.46	773.7	30.48	774.2	35	1.7	69	e.	2	0.9	.....	4 cs	5 s	W.	.....	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.83	757.7	30.52	775.2	30	— 1.1	88	nw.	1	0.4	.....	.....	10 s	.....	W.	0	0	cloudy	R. B. Watkins.
Cleveland, Ohio	29.63	752.6	30.42	772.7	20.5	— 6.4	76	sw.	10	4.5	.....	1 cs	0	.....	.....	0	0	clear	J. B. Newlin.
Coleman City, Texas	28.43	722.1	30.31	769.9	40	4.4	92	s.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.60	751.8	30.50	774.7	24	— 4.4	88	sw.	5	2.2	.....	3 cs	0	sw.	.....	0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.28	718.3	30.30	769.6	31.0	— 0.6	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. McClone.
Davenport, Iowa	29.82	757.4	30.52	775.2	9	—12.8	55	calm	0	0	.....	5 cs	hz.	.....	.....	0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.29	642.4	30.25	768.3	41	5.0	42	calm	0	0	.....	.....	10 s	.....	sw.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.70	729.0	30.51	774.9	—14	—25.6	50	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.58	649.7	30.50	774.7	2	—16.7	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.47	773.9	30.49	774.4	31	— 0.6	78	s.	8	3.6	.....	.....	9 ks	.....	s.	0	0	cloudy	T. S. Townsend.
Denison, Texas	29.54	750.3	30.38	771.6	33.0	0.6	100	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Byram.
Denver, Colorado	24.93	633.2	30.45	773.4	— 1.0	—18.3	75	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.62	752.3	30.59	777.0	— 4	—20.0	65	w.	1	0.4	.....	0	sk.	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.62	752.3	30.37	771.4	18.0	— 7.8	91	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	E. R. Brace.
Dodge City, Kansas	27.74	704.6	30.48	774.2	11	—11.7	64	n.	9	4.0	.....	0	0	.....	.....	0	0	clear	Y. P. Temple.
Dubuque, Iowa	29.76	755.9	30.52	775.2	9.5	—12.5	48	w	1	0.4	.....	0	1 s	.....	n.	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.65	753.1	30.46	773.7	— 8	—22.2	58	sw.	3	1.3	.....	0	0	.....	.....	0.01	0.3	clear	N. B. Conger.
Eagle Pass, Texas	29.49	749.0	30.33	770.4	47.0	8.3	86	se.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.33	643.4	30.23	767.8	—17	—27.2	100	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.97	761.2	30.04	763.0	17.0	— 8.3	67	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.45	697.2	30.35	770.9	16	— 8.9	53	calm	0	0	.....	9 k	10 s	.....	.....	0	0	cloudy	W. J. Oundall.
El Paso, Texas	26.34	669.0	30.22	767.6	46.5	8.1	56	nw.	4	1.8	.....	.....	10 s	.....	nw.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.60	751.8	30.37	771.4	22	— 5.6	73	sw.	12	5.4	.....	0	0	.....	.....	0	0	clear	Peter Wood.
Escanaba, Michigan	29.56	750.8	30.28	769.1	4.5	—15.3	74	w	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	George Heathcots.
Fredericksburg, Texas	28.45	722.6	30.25	768.3	42	5.6	92	s.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	Frank Halwegler.
Galveston, Texas	30.22	767.6	30.27	768.8	47	8.3	100	ne.	12	5.4	.....	.....	fg.	.....	.....	0.05	1.3	dense fog	E. O'C. Macilvernay
Grand Haven, Michigan	29.65	753.1	30.36	771.1	20.0	— 6.7	84	sw.	24	10.7	.....	0	2 ks	.....	sw.	0	0	clear	J. E. Mueller.
Grant, Fort, Arizona	25.30	642.6	30.16	766.1	42	5.6	55	ne.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	Robert O. Lord.
Hatteras, North Carolina	30.49	774.4	30.51	774.9	44	6.7	83	e.	6	2.7	.....	6 ck	3 k	sw.	.....	0.25	6.3	cloudy	R. M. Crawford.
Helena, Montana	25.96	659.4	30.36	771.1	— 6	—21.1	100	calm	0	0	.....	0	0	.....	.....	0.01	0.3	clear	N. C. Smith.
Henrietta, Texas	29.31	744.5	30.36	771.1	34	1.1	89	n.	2	0.9	.....	.....	10 ks	.....	.....	0	0	cloudy	J. P. Sherry.
Huron, Dakota	29.05	737.9	30.57	776.5	— 1.5	—18.6	62	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.63	752.6	30.48	774.2	24	— 4.4	73	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.22	767.6	30.25	768.3	44.6	7.0	100	ne.	9	4.0	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	I. A. Reed.
Jacksboro, Texas	29.11	739.4	30.35	770.9	36	2.2	53	se.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	D. J. Carr.
Jacksonville, Florida	30.33	740 4	30.38	771.6	61	16.1	93	n.	2	0.9	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.82	706.6	30.50	774.7	— 9	—22.8	61	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Keokuk, Iowa	29.80	756.9	30.50	774.7	11.5	—11.4	70	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.21	767.3	30.23	767.8	73.0	22.8	84	e.	8	3.6	.....	0	3 k	.....	e.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.50	774.7	30.52	775.2	39	3.9	89	s.	1	0.4	.....	7 ck	0	w.	.....	0.04	1.0	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	29.38	746.2	30.46	773.7	35	1.7	92	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.70	754.4	30.54	775.7	7	—13.9	76	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.60	751.8	30.55	776.0	18	— 7.8	84	calm	0	0	.....	5 cs	0	w.	.....	0	0	fair	A. W. Browne.
Lewiston, Idaho	29.78	756.4	30.05	778.5	— 3.0	—19.4	85	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	W. Bell.
Little Rock, Arkansas	30.10	764.5	30.43	772.9	36	2.2	89	n.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.70	754.4	30.10	764.5	36	2.2	53	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.87	758.7	30.46	773.7	29	— 1.7	77	n.	7	3.1	.....	10 cs	0	.....	.....	0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.76	755.9	30.48	774.2	34	1.1	71	w	1	0.4	.....	0	5 s	.....	w.	0	0	fair	Louis Duane.
Mackinaw City, Michigan	29.49	749.0	30.19	766.8	7.5	—13.6	63	nw.	14	6.3	.....	8 k	0	w.	.....	inap.	inap.	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.44	773.2	30.45	773.4	44.0	6.7	83	ne.	9	4.0	.....	0	9 k	.....	sw.	0.03	0.8	cloudy	William Daly.
Madison, Wisconsin	29.37	746.0	30.46	773.7	7	—13.9	76	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.71	653.0	30.25	768.3	10	—12.2	61	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	F. Burke.
McKavett, Fort, Texas	27.97	710.4	30.35	770.9	38	3.3	79	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.44	747.8	30.22	767.6	6	—14.4	50	w.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	30.06	763.5	30.42	772.7	33	0.6	100	ne.	4	1.8	.....	.....	10 n	.....	.....	inap.	inap.	light rain	D. T. Flannery.
Milwaukee, Wisconsin	29.62	752.3	30.42	772.7	12	—11.1	61	w.	13	5.8	.....	0	c	.....	.....	0	0	clear	W. Line.
Missoula, Fort, Montana	26.92	683.8	30.35	770.9	—20	—28.9	100	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	I. H. Young.
Mobile, Alabama	30.32	770.1	30.36	771.1	48	8.9	86	n.	4	1.8	.....	0	0 s	.....	.....	0	0	clear	C. A. Read.
Montgomery, Alabama	30.13	765.3	30.37	771.4	50	10.0	52	ne.	5	2.2	.....	.....	10 s	.....	sw.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.43	747.5	30.53	775.4	—15	—26.1	100	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.45	748.0	30.52	775.2	28.0	— 2.2	77	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.41	594.6	30.03	762.7	— 4.0	—20.0	100	nw.	50	22.4	.....	.....	10n;fg	.....	nw.	0.18	4.6	light snow	S. W. Beall.
Nashville, Tennessee	29.83	757.7	30.44	773.2	35.5	1.9	69	ne.	4	1.8	.....	10 cs	0	sw.	.....	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.24	768.1	30.36	771.1	24	— 4.4	61	sw.	5	2.2	.....	5 c	hz.	sw.	.....	0	0	fair	J. H. Sherman.
New London, Connecticut	30.34	770.6	30.39	771.9	29	— 1.7	67	sw.	7	3.1	.....	6 c	0	w.	.....	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.27	768.8	30.33	770.4	56.8	13.8	84	se.	6	2.7	.....	.....	10 s	.....	se.	0	0	threatening	L. Dunne.
Newport, Rhode Island	30.30	769.6	30.35	770.9	28.0	— 2.2	80	sw.	13	5.8	.....	5 k	2 s	w.	.....	0	0	fair	W. McGillivray.
New York, New York	30.24	768.1	30.43	772.9	27.5	— 2.5	83	sw.	5	2.2	.....	6 cs	0	w.	.....	0	0	fair	J. B. Merrill.
Norfolk, Virginia	30.47	773.9	30.50	774.7	42	5.6	82	calm	0	0	.....	10 ck	fg.	w.	.....	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.45	697.2	30.55	776.0	— 7.4	—21.9	76	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.35	770.9	30.39	771.9	18.0	— 7.8	53	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	29.33	745.0	30.60	777.2	1.7	—16.8	66	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Polak.
Ooglaamie, Alaska	29.55	750.6	29.57	751.1	17.5	— 8.1	96	s.	24	10.7	.....	.....	10 n	.....	.....	0.11	2.8	light snow	P. H. Ray.
Oswego, New York	29.87	758.7	30.22	767.6	27.0	— 2.8	70	w.	24	10.7	.....	.....	10 k	.....	w.	0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.80	756.9	30.38	771.6	38.0	3.3	94	ne.	9	4.0	.....	.....	10n;fg	.....	.....	0.13	3.3	light rain	L. M. Pindell.
Pensacola, Florida	30.33	770.4	30.30	771.1	50.2	10.1	86	ne.	5	2.2	.....	1 cs	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	30.35	770.9	30.46	773.7	31	— 0.6	57	sw.	6	2.7	.....	5 cs	0	sw.	.....	0	0	fair	E. M. Mattison.
Pike's Peak, Colorado	17.65	448.3	30.37	771.4	— 2	—18.9	100	w.	.....	.....	4	0	1 s	.....	.....	0	0	clear	H. Hall.
Pioche, Nevada	23.98	609.1	30.14	765.5	13.5	—10.3	74	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.61	752.1	30.47	773.9	25.0	— 3.9	80	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	W. A. Reid.
Poplar River, Montana	28.05	712.5	30.40	772.1	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. O. Maxwell.
Port Eads, Louisiana	30.31	769.9	30.32	770.1	59.0	15.0	93	ne.	11	4.9	.....	0	6 s	.....	ne.	0	0	fair	H. B. Boyer.
Port Huron, Michigan	29.57	751.1	30.30	769.6	15.1	— 9.4	83	sw.	17	7.6	.....	0	0	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	30.16	766.1	30.21	767.3	20	— 6.7	62	sw.	15	6.7	.....	hz.	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.30	769.6	30.37	771.4	19.8	— 6.8	40	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	47	8.3	86	ne.	12	5.4	.....	5 ck	3 ks	w.	.....	0.07	1.8	cloudy	F. S. Coburn.
Prescott, Arizona	30.78	781.8	30.14	765.5	23.3	— 4.8	79	sw.	1	0.4	.....	0	2 s	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass.	30.29	769.4	30.32	770.1	27	— 2.8	64	sw.	13	5.8	.....	6 cs	0	w.	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.28	769.1	30.29	769.4	68	20.0	97	e.	7	3.1	.....	0	1 ks	.....	e.	0	0	clear	W. J. Evans.
Red Bluff, California	29.79	756.7	30.16	766.1	29	— 1.7	77	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	29.54	750.3	30.25	768.3	21	— 6.1	84	sw.	28	12.5	.....	0	3 k	.....	w.	0	0	clear	E. W. McGann
Roseburg, Oregon	29.67	753.6	30.24	768.1	19	— 7.2	76	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	30.06	763.5	30.14	765.5	33.3	0.7	88	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.85	758.2	30.49	774.4	23.2	— 4.9	98	s.	2	0.9	.....	0	8s;sk	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.21	767.3	30.24	768.1	29	— 1.7	100	s.	38	17.0	.....	.....	10 s	.....	.....	.....	.....	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.55	750.6	30.49	774.4	— 3.0	—19.4	79	w.	7	3.1	.....	3 cs	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.51	749.5	30.48	774.2	—25	—31.7	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	O. B Dilley.
Salt Lake City, Utah	25.75	654.0	30.31	769.9	9	—12.8	60	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.56	750.8	30.28	769.1	44.0	6.7	100	ne.	4	1.8	.....	.....	10 n	.....	.....	0.02	0.5	light rain	T. J. Kenan.
San Diego, California	30.00	762.0	30.07	763.8	40.3	4.6	72	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.68	753.9	30.40	772.1	21.8	— 5.7	80	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.30	771.9	30.42	772.7	28.0	— 2.2	77	sw	18	8.0	.....	5 c	0	sw.	.....	0	0	fair	B. A. Blundon.
San Francisco, California	30.06	763.5	30.13	765.3	40	4.4	82	s.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.26	590.8	30.34	770.6	34	1.1	55	ne.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	H. U. Jones.
Savannah, Georgia	30.32	770.1	30.41	772.4	55	12.8	83	e.	5	2.2	.....	.....	10 ks	.....	e.	inap.	inap.	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.56	674.6	30.41	772.4	15	— 9.4	67	sw.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	A. L. Mathews.
Shreveport, Louisiana	30.12	765.0	30.37	771.4	37	2.8	100	ne.	5	2.2	.....	.....	10 n	.....	ne.	0.20	5.1	light rain	E. N. Meekins.
Sill, Fort, Indian Territory	29.08	738.6	30.38	771.6	32	0.0	78	n.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.36	618.7	30.21	767.3	31.5	— 0.3	61	w.	2	0.9	.....	0	2 s	.....	.....	0	0	clear	N. D. Lane.
Sitka, Alaska	30.00	777.2	30.07	779.0	36.1	2.3	37	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.92	760.0	30.42	772.7	32.0	0.0	88	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.43	772.9	30.47	773.9	48	8.9	71	ne.	6	2.7	.....	6 ck	0	w.	.....	0.07	1.8	fair	O. Parker.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.44	722.4	30.57	776.5	— 8.2	—22.3	50	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Springfield, Illinois	29.76	755.9	30.49	774.4	21	— 6.1	79	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Missouri	28.90	734.0	30.41	772.4	25.0	— 3.9	88	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Starkville, Miss	29.87	758.7	30.37	771.4	41	5.0	92	e.	3	1.3	.....	.....	10 n	.....	e.	0.48	12.2	light rain	C. Dill.
Stevenson, Fort, Dakota	28.44	722.4	30.46	773 7	—13	—25.0	50	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Stockton, Fort, Texas	27.10	688.3	30.23	767.8	36	2.2	72	sw.	4	1.8	.....	2 ck	0	sw.	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass	30.25	768.3	30.31	769.9	26.0	— 3.3	77	w.	25	11.2	.....	3 c	0	w.	.....	0	0	clear	G. Liebmann.
Thomas, Camp, Arizona	27.32	693.9	30.15	765.8	37	2.8	64	calm	.....	.....	0	0	5 ks	.....	.....	0	0	fair	J. T. Fitzgerald.
Toledo, Ohio	29.67	753.6	30.41	772.4	22	— 5.6	58	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.61	701.3	30.09	764.3	45	7.2	56	s.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	30.33	770.4	30.71	780.0	—12	—24.4	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	27.1	— 2.7	77	w.	.....	.....	1	.....	10 s	.....	sw.	0	0	cloudy	O. L. Pease.
Vicksburg, Mississippi	30.09	764 3	30.36	771.1	43.9	6.6	93	calm	0	0	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	James Keneally.
Visalia, California	29.73	755.1	30.11	764.8	31.3	— 0.4	73	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.64	625.8	30.40	772.1	—28.8	—33.8	.....	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C	30.38	771.6	30.50	774.7	28.0	— 2.2	84	calm	0	0	.....	7ck;cs	fg	w.	.....	0	0	fair	B. M. Purssell.
West Las Animas, Colorado	26.31	668.3	30.44	773 2	1	—17.2	100	nw.	5	2.2	.....	0	4 s	.....	.....	0	0	fair	F. H. Brandenburg.
Williamsport, Pa	29.75	755.6	30.38	771.6	26	— 3.3	70	sw.	1	0.4	.....	6 cs	hz	w.	.....	0	0	fair	B. F. Hough.
Wilmington, N. Carolina	30.41	772.4	30.47	773.9	44	6.7	76	ne.	4	1.8	.....	7 c;ck	0	nw.	.....	inap.	inap.	fair	Samuel A. Haney.
Winnemucca, Nevada	25.61	650.5	30.13	765.3	7.5	—13.6	80	ne.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. H. Atfield.
Yuma, Arizona	29.89	759.2	30.04	763.0	45.0	7.2	45	ne.	4	1.8	.....	0	3 s	.....	s.	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.01	559 0	.....	.....	55.0	12.8	61	w.	8	3.6	.....	.....	10 s	.....	w.	0.10	2.5	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I	30.13	765.3	30.14	765.5	71	21.7	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	Robert Johnston.
Paramaribo, S. A	30.05	763.3	30.05	763.3	77	25.0	91	e.	.....	.....	3	.....	8 ks	.....	e.	0	0	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.34	745.2	29.90	759.4	79	26.1	85	calm	.....	.....	0	.....	10 ks	.....	calm	0.05	1.3	cloudy	Francisco J. Olsner.
Rivas, Nicaragua, C. A	.....	.....	.....	.....	76	24.4	92	ne.	.....	.....	4	0	2 ks	.....	ne.	blank	blank	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.70	779.8	30.76	781.3	31	— 0.6	88	calm	.....	.....	0	3 c	0	.....	.....	0	0	clear	W. J. Fisher.
St. Thomas, W. I	30.12	765.0	30.24	768.1	75	23.9	70	e.	.....	.....	.....	0	4 k	.....	e.	0	0	fair	Aug. Wallon.
Havana, Cuba	30.14	765.5	30.20	767.1	68.7	20.4	88	e.	4	1.8	.....	0	1 k	.....	se.	0	0	clear	Benito Vines, S. J.
York Factory, B. A	30.00	762.0	30.08	764.0	—34.0	—36.7	.....	w.	12	5.4	.....	.....	10 n	.....	w.	0.05	1.3	snowing	Fortesque & Wood.

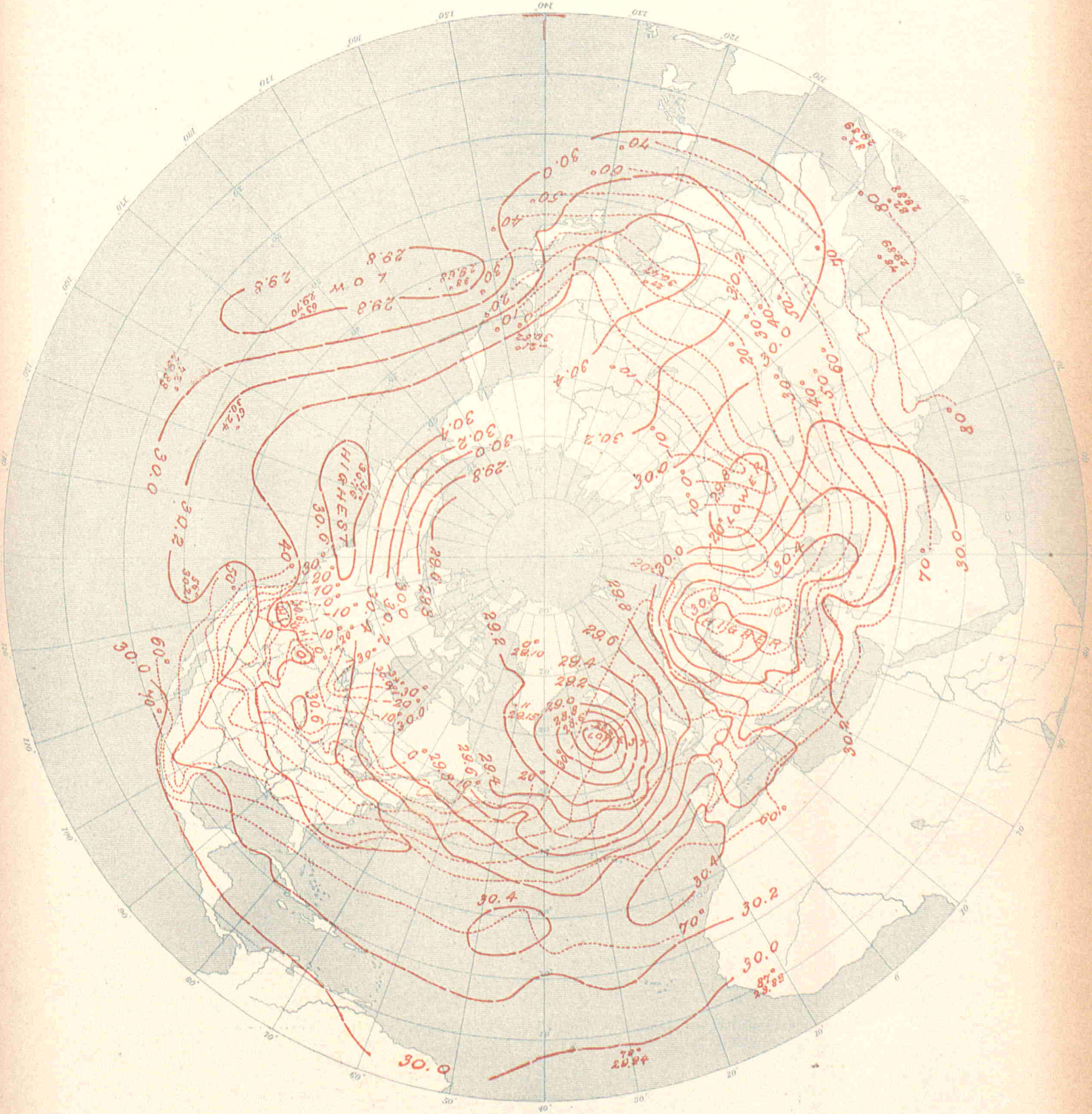
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Sea-swell. Character.	Direction from	Weather.
District No. 1—North Atlantic.																		
H. M. S. Agincourt, N. 45° 34′ W. 8° 12′	29.99	761.7	52.5	11.4	.....	ssw.	.....	.....	7–8	.....	10	ssw.	.....	.....	.....	9	wsw.	squally.
H. M. Dock Yard, Bermuda, W. I	30.32	770.1	67	19.4	94	wnw.	.....	.....	1–2	.....	9	wnw	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Fawn, N. 7° 56′, W. 28° 09′	30.01	762.2	76.5	24.7	95	nne.	.....	.....	3–4	.....	3	nne.	.....	.....	.....	3	n.	d. clouds.
H. M. S. Iron Duke, N. 37° 30′, E. 8° 30′	30.16	766.1	61	16.1	60	w.	.....	.....	2	.....	4	sw.	.....	.....	.....	1	wsw.	d. clouds.
H. M. S. Monarch, Port Said, Egypt	30.09	764.3	73	22.8	59	w.	.....	.....	1	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Minotaur, N. 45° 00′, W. 9° 00′	30.01	762.2	52	11.1	72	ssw.	.....	.....	7	.....	9	ssw.	.....	.....	.....	7	wsw.	misty.
H. M. S. Tyne, N. 5° 20′, W. 11° 00′	29.98	761.5	80	26.7	82	w.	.....	.....	2	.....	1	wsw.	.....	.....	.....	1	wsw.	misty
U. S. Navy Yard, Portsmouth, N. H*	30.23	767.8	17	— 8.3	?	wsw.	4	1.8	.....	.....	0	.....	.....	0	0	.....	.....	hazy.
U. S. S. Alliance, Port Marsel, Cuba	30.23	767.8	74	23.3	100	ene.	.....	.....	1–2	.....	2	.....	.....	0	0	sm'h	.....	clear.
U. S. S. Enterprise, N. 15° 22′, W. 24° 57′*	30.17	766.3	75	23.9	64	ene.	.....	.....	4	.....	2	.....	e.	.....	.....	sm'h	.....	clear.
U. S. S. Jamestown, N. 14° 41′, W. 56° 44′	30.12	765.0	78	25.6	77	e.	.....	.....	6	.....	2	.....	e.	.....	.....	r'gh	e.	misty.
U. S. S. Kearsarge, N. 11° 16′, W. 74° 16′	29.85	758.2	80	26.7	86	ne.	.....	.....	6	.....	2	.....	ne.	.....	.....	mod.	ene.	fair.
U. S. S. Lancaster, N. 38° 30′, W. 9° 20′	30.33	770.4	54	12.2	79	nw.	.....	.....	2	.....	2	.....	calm	.....	.....	h'vy	sw.	fair.
U. S. S. Nipsic, N. 22° 57′, W. 48° 31′	30.40	772.1	74	23.3	72	e	.....	.....	5	.....	2	.....	.....	.....	.....	mod.	e.	clear.
U. S. S. Quinnebaug, N. 36° 58′, W. 6° 55′	30.26	768.6	58	14.4	69	wsw.	.....	.....	5	.....	8?	.....	wsw.	.....	.....	mod.	wsw.	clear?
U. S. S. St. Louis, League Island, Pa	30.38	771.6	28	— 2.2	100	wsw.	8	3.6	.....	.....	5	.....	.....	0	0	.....	.....	fair.
U. S. S. Tennessee, St. Croix, W. I*	30.17	766 3	80	26.7	86	ene.	13	5.8	.....	.....	2	.....	.....	0.02	0.5	.....	.....	fair.
U. S. S. Vandalia, Port au Prince, Hayti, W. I *	30.13	765.3	75	23.9	90	e.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Yantic, N. 21° 37′, W. 89° 16′	.....	.....	78	25.6	95	ene.	.....	.....	4	.....	2	.....	.....	.....	.....	sm'h	.....	clear.
S. S. British Crown, N. 45° 39′ W. 38° 32′†	29.57	751.1	34	1.1	.....	wnw	.....	.....	6	.....	8	.....	wnw.	3 h'r	3 h'r	h'vy	wnw.	squally
S. S. British Prince, N. 45° 15′, W. 41° 13′ †	29.80	756.9	32	0.0	.....	nw.	.....	.....	8	.....	9	.....	nw.	5 h'r	5 h'r	h'vy	var.	snow-squalls
S. S. Indiana, N. 42° 09′, W. 50° 09′ †	30.04	763.0	31	— 0.6	79	ne.	.....	.....	3	.....	2	.....	ne.	0	0	sm'h	n.	fine.
S. S. Lord Gough, Delaware river	30.35	770.9	32	0.0	.....	se.	.....	.....	2	.....	2	.....	s.	0	0	.....	.....	fair.
S. S. Ohio, N. 51° 26′ W. 14° 51′ †	29.02	737.1	46	7.8	85	wsw.	.....	.....	6	.....	6	.....	wsw.	.....	.....	h'vy	sw.	squally.
S. S. Pennsylvania, Liverpool, Eng †	29.61	752.1	45	7.2	84	w.	.....	.....	3	.....	8	.....	wsw.	3 h'r	3 h'r	sm'h	.....	cloudy.
S. S. Circassian, N. 47° 00′, W. 45° 16′*	29.80	756.9	20	— 6.7	.....	w.	.....	.....	6	.....	5	.....	w.	10 h'r	10 h'r	5	w.	snowing.
S. S. Manitoban, N. 47° 30′, W. 43° 30′	29.82	757.4	26	— 3.3	.....	wnw.	.....	.....	6	.....	5	.....	nw.	4 h'r	4 h'r	cross	var.	fair.
S. S. Scandinavian, N. 49° 53′ W. 37° 18′	29.32	744.7	38	3.3	.....	w.	.....	.....	8	.....	8	.....	w.	snow	snow	high	w.	snowing.
S. S. Stella, N. 42° 27′, W. 50° 53′	30.08	764.0	33.8	1	.....	n.	.....	.....	2	.....	3	.....	nnw.	3 h'r	3 h'r	2	nw.	d. clouds.
S. S. Ailsa, N. 10° 24′, W. 82° 00′†	30.06	763.5	80	26.7	91	ne.	.....	.....	5	.....	8	.....	ne.	1 h'r	1 h'r	high	ne.	cloudy.
S. S. Anchoria, N. 46° 22′, W. 43° 43′ †	29.90	759.4	.....	.....	.....	wnw	.....	.....	6	.....	8	.....	w.	sh'rs	sh'rs	mod.	wnw.	snowy.
S. S. Assyria, N. 33° 10′, W. 24° 18′	30.46	773.7	64	17.8	83	wsw.	.....	.....	5	.....	10	.....	wsw.	.....	.....	r'gh	w.	
S. S. Dorian, N. 41° 58′, W. 56° 15′	30.13	765.3	42	5.6	.....	wnw.	.....	.....	6	.....	8	.....	wnw.	.....	.....	mod.	w.	cloudy.
S. S. Pavonia, N. 49° 12′, W. 35° 02′	29.20	741.7	37	2.8	?	wnw.	.....	.....	7	.....	9	.....	wnw.	hail	hail	h'vy	nw.	squally.
S. S. Cotina, River Clyde, Scotland †	29.55	750.6	.....	.....	.....	ssw.	.....	.....	3	.....	3	.....	sw.	0	0	.....	.....	clear.
S. S. Labradore, N. 40° 36′ W. 65° 32′	.....	.....	33.8	1	.....	w.	.....	.....	6	.....	0	.....	.....	0	0	r'gh	wsw.	clear.
S. S. Pereire, N. 50° 07′, W. 27° 22′ †	29.03	737.3	42.8	6	.....	wnw.	.....	.....	7	.....	3	.....	wnw.	rain	rain	h'vy	wnw.	
S. S. Ville de Marseilles, Vera Cruz, Mexico	.....	.....	70	21.1	.....	nnw.	.....	.....	4	.....	7	.....	n.	shr's	shr's	..	.....	cloudy
S. S. Abyssinia, N. 49° 33′, W. 29° 22′	29.11	739.4	43	6.1	?	wnw.	.....	.....	7	.....	8	.....	nw.	1 h'r	1 h'r	r'gh	wnw.	squally.
S. S. Bohemia, N. 49° 13′, W. 17° 25′†	29.12	739.6	.....	.....	.....	w.	.....	.....	7–9	.....	8 k	.....	w.	6 h'r	6 h'r	h'vy	w.	hail squalls
S. S. Silesia, N. 49° 41′, W. 32° 22′†	29.18	741.2	.....	.....	.....	w.	.....	.....	6	.....	4	.....	nw.	6 h'r	6 h'r	7–8	wnw.	squally.
S. S. Bulgarian, N. 49° 44′, W. 50° 30′*	29.26	743.2	.....	.....	.....	wnw.	.....	.....	8	.....	10	.....	wnw.	6 h'r	6 h'r	high	nw.	
S. S. Virginian, N. 45° 20′ W. 46° 30′ *	29.96	761.0	30	— 1.1	.....	wnw.	.....	.....	6	.....	6	.....	nw.	2 h'r	2 h'r	h'vy	nw.	cloudy.
S. S. Archimede, N. 8° 37′, W. 28° 23′	29.99	761.7	.....	.....	.....	nne.	.....	.....	5	.....	1	.....	ne.	0	0	long	ne.	fine.
S. S. Colorado, N. 25° 07′, W. 84° 20′†	30.26	768.6	73	22.8	.....	e.	.....	.....	3	.....	3	.....	e.	0	0	mod.	e.	clear.
S. S. San Marcos, N. 39° 55′, W. 74° 00′	.....	.....	35	1.7	.....	nnw.	.....	.....	4	.....	0	.....	.....	0	0	mod.	.....	
S. S. New York, N. 34° 17′ W. 76° 30′ †	30.43	772.9	56	13.3	.....	nnw.	.....	.....	5	.....	5?	.....	n.	0	0	mod.	ne.	clear.?
S. S. Hermod, N. 46° 17′, W. 27° 20′†	29.42	747.3	50.0	10	.....	sw.	.....	.....	9	.....	9	.....	sw.	4 h'r	4 h'r	high	sw.	threatening.
S. S. Alleghany, Norfolk, Va†	30.54	775.7	42	5.6	.....	e.	.....	.....	2	.....	0?	.....	.....	0	0	.....	.....	overcast*
S. S. Archimede, N. 34° 14′, W. 22° 40′†	30.46	773.7	66	18.9	.....	wnw.	.....	.....	4	.....	6	.....	wsw.	0	0	long	wnw.	cloudy.
S. S. Picqua, N. 37° 30′ W. 33° 20′	.....	.....	69	20.6	.....	sw.	.....	.....	6	.....	6	.....	sw.	0	0	long	sw.	fair.
S. S. City of Merida, N. 37° 46′ W. 74° 33′†	30.55	776.0	75	23.9	.....	se.	.....	.....	2	.....	10	.....	se.	0	0	light	se.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. City of Washington, N. 19° 52′, W. 90° 48′†	30.15	765.8	80	26.7		e.			2		2		e.	0	0	sm'h		fine.
S. S. Santiago, Cienfuegos, Cuba, W. I	30.24	768.1	74	23.3		nne.			2		0			0	0			fine.
S. S. Egypt, N. 41° 29′, W. 56° 33′*	29.99	761.7	42	5.6		wnw.			5		8		nw.	0	0	long	nw.	fair.
S. S. England, N. 51° 22′ W. 14° 53′	29.07	738.4				sw.			7		8		sw.	sh's	sh's	hv'y	w.	showery.
S. S. Queen, N. 49° 37′, W. 14° 30′	29.55	750.6	48	8.9		sw.			7		10		sw.	sh'rs	sh'rs	h'vy	sw.	gloomy.
S. S. America, N. 44° 55′, W. 40° 13′*	29.81	757.2	41.0	5.0	91	wnw.			6		9		wnw.	5 h'r	5 h'r	high	wnw.	squally.
S. S. Braunschweig, N. 19° 17′, W. 24° 09′	30.18	766.6	75.0	23.9	90	nne.			4		2		nne.	0	0	cross	ne.	fair.
S. S. Donan, N. 49° 39′, W. 20° 24′	29.16	740.7				w.			8		8		w.	12 h'r	12 h'r	h'vy	w.	squally.
S. S. Hermann, N. 42° 27′, W. 54° 11′	30.14	765.5	35.6	2.0	81	wsw.			5		8		wsw.	1 h'r	1 h'r	4	var.	cloudy.
S. S. Muriel, N. 23° 37′, W. 64° 54′*	30.31	769 9	75	23.9		ese.			4		0					long	e.	clear.
S. S. Belgenland, N. 45° 30′ W. 44° 55′ *†	29.88	758.9	27	— 2.8		wsw.			8		8		wnw.	3 h'r	3 h'r	h'vy		cloudy.
S. S. Nederland, N. 49° 44′ W. 25° 10′			42	5.6	83	wsw.			6		10		wsw.	4 h'r	4 h'r	long	wsw.	overcast.
S. S. Rhynland, Antwerp, Belgium	29.89	759.2	48	8.9	92	se.			4		5		se.					rainy.
S. S. Waesland, N. 41° 11′, W. 63° 13′	30.37	771.4	32	0.0		wnw.			5		5		w.	0	0	high	wnw.	fair.
S. S. Zeeland, Flushing, Nederlands*†	29.70	754.4	52	11.1		ssw.			4		10		ssw.			sm'h		raining.
S. S. P. Caland, N. 49° 10′, W. 27° 35′.	29.17	740.9	42.1	5.6	97	wnw.			6		10		w.			7	wnw.	squally.
S. S. Caracas, N. 34° 02′ W. 71° 50′†	30.52	775.2	62	16.7	66	ne.			5		5		e.	0	0	mod.	ne.	fair.
S. S. Claudius, Greytown, Nicaragua, C. A†			80.0	26.7	82	ne.			5		3		ne.	hv'y	hv'y	short	ne.	rainy.
S. S. Valencia, Curacao, Venezuela†	30.10	764.5	82	27.8	71	ene.			6		4		ese.	0	0			fine.
S. S. State of Indiana, N. 42° 07′ W 58° 25′*†	30.10	764.5	36	2.2		wnw.			7		0		w.	4 h'r	4 h'r	rg'h	w.	squally.
S. S. Romano, N. 45° 15′, W. 25° 41′*	29.54	750.3	58	14.4		wsw.			7		10		sw.	8 h'r	8 h'r	cross	sw.	overcast.
S. S. Salerno, Hull, Engt	29.65	753.1	45	7.2		w.			2		10		w.	3 h'r	3 h'r	r'gh	se.	foggy.
S. S. Brooklyn, N. 47° 09′, W. 42° 36′			26	— 3.3		w.			7				wnw.	4 h'r	4 h'r	h'vy	wnw.	squally.
S. S. Surrey. N. 45° 53′, W. 45° 18′†	29.84	757.9	26	— 3.3		wnw.			6		8		wnw.	6 h'r	6 h'r	h'vy	wnw.	fair.
S. S. Lake Huron, New York, N. Y			34	1.1		wsw.			4		1		wsw.	0	0			
S. S. Olbers, N. 52° 02′, W. 5° 32′*†	29.60?	751.8?	49	9.4		sw.			6		10		ssw.	8 h'r	8 h'r	cross	var.	overcast.
S. S. Plantyn, N. 50° 09′, W. 28° 22′	29.05	737.9							8		5		w.	0	0	high	nw.	squally.
S. S. Aries, N. 39° 20′, W. 74° 12′ *†	30.40	772.1				wsw.			4		8			0	0	sm'h		cloudy.
S. S. Norman, N. 42° 23′, W. 71° 05′*†	30.30	769.6				wsw.			1					0	0			clear.
S. S. Saxon, N. 39° 11′, W. 75° 15′†	30.34	770.6				wsw.			5		4							fair.
S. S. Adriatic, N. 41° 00′, W. 68° 12′ †	30.35	770.9	37	2.8		w.			5		1		w.	0	0	sm'h	w.	clear.
S. S. Baltic, N. 51° 08′, W. 14° 56′*	29.03	737.3	48	8.9	85	wsw.			6		8		w.	12 h'r	12 h'r	r'gh	var.	misty.
S. S. Celtic, Queenstown, Ireland†	29.60	751.8	45	7.2		ssw.			7–8		10		sw.	1 h'r	1 h'r	sm'h		threatening.
S. S. Iowa, N. 42° 23′, W. 59° 39′*†	30.26	768.6	36	2.2		w.			7		6		w.	0	0	r'gh	w.	fair.
S. S. Chamois, N. 34° 44′, W. 21° 03	30.41	772.4	58.5	14.7	67	sw.			5		9							d. clouds.
S. S. City of Agra, N. 7° 48′, W. 38° 50′	30.01	762.2	79	26.1	80	ne.			6		0							misty.
S. S. Antonio Lopez, N. 20° 39′, W. 55° 57′	30.27	768.8	74.5	23.6	81	e.			¼		4			2 h'r	2 h'r	mod.	e.	fair.
Schr. Abbie H. Gheen, Hampton Roads, Va†	30.58	776.7	43	6.1		w.			3									cloudy.
Bg. Abbie Clifford, Cardenas, Cuba, W. I†	30 22	767.6	75	23.9		ne.			2		8		e.	sh'r	ssh'rs			
Bk. Aquidneck, N. 36° 53′, W. 61° 16′						n.			2				wsw.	0	0	light	wsw.	clear
Bg. Alcira, Maracaybo, Venezuela, S. A	29.95	760.7	84	28.9		ene.			3		4		ne.	0	0			clear.
Schr. Anna A. Holton, Tampico, Mexico†	30.15	765.8	68	20.0		n.			4		10		n	0	0	sm'h		cloudy.
Schr. Annie R Lewis, St. Pierre, Martinique, W. I†.	30.24	768.1	77	25.0		ene.			1		10		ene	8 h'r	8 h'r			raining.
Bk. Anna Thormann, N. 4° 41′ W. 31° 03′*	30.04	763.1	78.6	25.9	83	nne.			5		9 k		nne.	sh'rs	sh'rs	rg'h	nne.	cloudy.
Bk. Aureola, Swansea, Wales			42	5.6		wsw.			3		7		w.	0	0			cloudy.
Bk. Achille F, N. 49° —′ W. 18° —′†	29.31	744.5	52	11.1	86	sw.			7		10		wsw.	snow	snow	h'vy	wsw.	
S. Armenia, N. 25° 34′, W. 38° 40 *	30.35	770.9	69	20.6	90	e.			4		3		e.	½ h'r	½ h'r	mod.	var.	clear.
S. S. Burswell, Mersey river, Engt†	29.61	752.1				s.			3		4		sw.	9 h'r	9 h'r	sm'h		fine.
Bk. Bremen, N. 33° 50′, W. 72° 50′ *	30.41	772.4				ne.			3		4		ne.	1 h'r	1 h'r	cross	var.	fair.
S. S. Benledi, N. 42° 30′, W. 40° 00′*	29.81	757.2	47	8.3	81	nw.			5–6		7		nw.	12 h'r	12 h'r	h'vy	nw.	hailing.
Bkt. Bonny boon, N. 31° 30′, W. 69° 50′	30.28	769.1				nw.			2		5		w.	0	0	long	nw.	hazy.
Bk. Bare, N. 25° 03′, W. 34° 15′			74	23.3		ene.			4		4		e.	1 h'r	1 h'r	long	nnw.	fair.
Bk. Pilgrim, N. 35° 20′, W. 49° 30′*†	30.33	770.4				w.			5		5		w.	0	0	long.	w.	cloudy.
Bk. Champion, N. 42° 40′, W. 43° 35′ †	29.74	755.4	48	8.9		nw.			6		10		nw.	14 h'r	14 h'r	h'vy	wnw.	rain & hail.
Bkt. C S. Bushnell, N. 36° 45′, W. 11° 30′	30.43	772.9				wsw.			1		1		wsw.	0	0	h'vy	nw.	fine.
S. Cornelius, N. 58° 34′, W. 23° 09′†	28.18	715 8				ese.			9					rain	rain	h'vy	var.	squally.
Bk. Commerce, Cadiz, Spain†	30.26	768.0	54	12.2		nnw.			3		0			0	0			fine.
Bk. Ceres, N. 17° 05′, W. 30° 59′*	30.21	767.3	70.9	21.6	70	ene.			7		9		ese.	rain	rain	r'gh	ene.	cloudy.
Bk. Chas. Stewart, N. 31° 40′, W. 43° 38′†	30.51	774.9	70	21.1		sw.			5		0		sw.	0	0	sm'h	nw.	
Schr. Edith R. Seward, Palenque, Hayti, W. I†	30.17	769.3	79	26.1		ne.			4		4		ene.	0	0	r'gh	e.	clear.
S. E. J. Spicer, N. 42° 22′, W. 24° 50′	29.59	751.0	57	13.9	100	w.			8		10		w.	12 h'r	12 h'r	high	wnw.	raining.
S. S. Footolio, London, Engt	29.85	758.2				wnw.			4		5		nw.	0	0			fair.
S. Festina Lente, N. 56° 58′, W. 22° 02′	28.34	719.8	42	5.6		sse.			8		7		s.	8 h'r	8 h'r	h'vy	s.	threatening.
Bk. Grey Eagle, N. 25° 39′, W. 66° 35′*†	30.20	767.1				e.			4		5?		e.	0	0	light	e.	clear.?
Bg. Gipsey Queen, Ponce, Porto Rico W. I*†	30.10	764.5	79	26.1		ene.			6				ene.			mod.		fair.
Bg. George, N. 30° 22′, W. 71° 39′*†	30.45	773.4				sw.			3		0			0	0	mod.	var.	fair.
Bk. Galeon, Cardiff Roads, Eng			42	5.6		w.			1									
Bk. Heinrich & Tonio, N. 33° 32′, W. 71° 40′†	30.34	770.6	61	16.1		ne.			4		8		ne.	6 h'r	6 h'r	mod.	var.	cloudy.
Schr Hattie Weston, Mayro, Trinidad, W. I*†	30.12	765.0	80	26.7		ene.			3		10		ene.	0	0	long	e.	cloudy.
Bk. Hattie G. McFarland, Pascagoula, Miss*†	30.40	772.1	61	16.1		w.			4		10		w.	0	0			
Bk. Horace Scudder N. 20° 27′, W. 44° 34′*†	30.49	774.4	72	22.2		ene.			4		2		e.	0	0	long	e.	clear.
Schr. Isabel Alberto, N. 37° 53′, W. 74° 26′†	30.50	774.7				sse.			2		5		w.	0	0	light	s.	hazy.
S. S. J. W. Wilson, Brazos, Santiago, Texas			50	10.0		nw.			6		10			10 h'r	10 h'r			foggy.
Bk. Johanne, N. 37° 40′, W. 73 45′ †	30.42	772.7	44	6.7		sw.			3		8		var.	0	0	mod.	sw.	misty.
Schr. John L. Thomas, N. 18° 48′ W. 84° 22′*†	30.20	767.1				ene.			4		2		e.	¼ h'r	¼ h'r	cf'd	var.	fine.
Bg. L. & W. Armstrong, Ponte a Pitre, Guadeloupe*†	30.20	767.1				e.			1		5		ese.	1 h'r	1 h'r	sm'h		
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3				calm			0		0			0	0			fine.
Bg. Mary A. Troop, Sharpness Point, Eng*†	29.72	754.9				wsw.			5		5		wnw	2 h'r	2 h'r			sprinkling.
Schr. Minnie A. Bonsall, Maypert, Fla †	30.44	773.2	67	19.4		ssw.			1				ssw.	0	0			clear.
Bk. Matilda C. Smith N. 48° 52′, W. 6° 30′ †	29.71	754.0				sw.			6		6		sw.	0	0	long	w.	threatening.
Bgt. Myrtle, Saint Thomas, W. I						ene.			6		1		ene.	0	0			fair.
S. M. P. Grace, N. 19° 14′, W. 4° 37′*	30.18	766.0	72	22.2		ene.			6		5		ene.	0	0	r'gh	ene.	squally.
S. S. Mendoza, N. 39° 12′, W. 72° 18′						wnw.			3		2		wnw.	0	0	sm'h		clear.
Bkt. Norena, Matanzas, Cuba, W. I *†	30.32	770.1				ene.			1		1		ne.	1 h'r	1 h'r			fine.
Bk. Ottawa, Torrevieja Road, Spain*	30.04	763.0	58	14.4		wnw.			6		7		wnw.	2 h'r	2 h'r			clearing.
Schr. Pearl Nelson, N. 25° 40′, W. 74° —′						e.			6					0	0	long	se.	fine.
Bk. Reindeer, N. 14° 05′ W. 61° 12′*	30.02	702.5				ene.			6				ene.					
S. Rudolph, N. 32° 00′ W. 33° 32′			63.0	17.2		sw.			4		10		sw.	0	0	mod.	wnw.	squally.
Bk. Saga, N. 46° 32′, W. 23° 23′			50	10.0		w.			8		10		wnw.	22 h'r	22 h'r	0–9	nw.	cloudy.
Bk. Sunbeam, N. 36° 28′, W. 15° 27′	30.42	772.7	66	15.6	70	wsw.			5		8		wsw.	1 h'r	1 h'r	mod.	wnw.	raining.
Bk. Soud, N. 30° 37′, W. 80° 39′*†	30.46	773.7	70	21.1		nne.			1					0	0	sharp	n.	cloudy.
Bk. Usko, N. 48° 40′, W. 10° 48′*†	29.80	749.3				ssw.			8		9		ssw.	2 h'r	2 h'r	h'vy	sw.	fine.
S. Vincenzo Accame, N. 37° 05′. W. 65° 15′*†	30.43	773.0	60.8	16		nw.			4		4		nnw.	0	0	r'gh	nnw.	cloudy.
Schr. Wm. Wiler, Pointe a Pitre, Guadeloupe, W If	30.00	763.5				e.			1		5		e.	0	0			clear.
S. Wm. Woodbury, N. 63° 43′, W. 3° 30′			44	6.7		sw.			7		10?		wsw.			high	s	fine.
																		clear?
District No. 2—South Atlantic.																		
H. M. S Heroine, Montevideo, Uruguay	30.03	702.7	71	21.7	100	ne.			1		2		e.			sm'h		d. clouds.
H. M. S. Starling, S. 4° 33′ W. 1° 38′	30.02	702.5	80.4	26.9	93	sse.			3		3		sse.					d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.05	703.3	71	21.7	90	e.	15	6.7			8		ne.	0	0			fair.
U. S. S. Galena, Montevideo, Uruguay*	30 04	703.0	73	22.8	85	e.			3		2		e.			sm'h		fair.
S. S. Grecian, S. 25° 55′, W. 43° 16′*	29.95	700.7	76	24.3	90	se.			2		7		sse.	½ h'r	½ h'r	sm'h		cloudy.
S. S. Hevelius, Buenos Ayres, La Plata†	30.16	766.1	74	23.3		sse.			8		4?		e.	0	0			clear?
S. S. Ptolemy, S. 10° 45′, W. 35° 45′	30.00	763.5	82	27.8	78	ese.			3	0	5 k			0	0	\3	ne	d. clouds.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2—South Atlantic.—Continued.																		
S. S. Auckland, S. 7° 59′, W. 22° 44′	30.05	763.3	80	26.7	70	e.			4		4							blue sky
S. S. May Hulse, S. 49° 04′, W 62° 21′	29.73	755.1	59	15.0	86	ne.			2		2							misty.
S. S. Ambrose, S. 2° 02′, W. 47° 48′ †	30.06	763.5	78	25.6		ne.			3–6		4		ene.	2 h'r	2 h'r	6	ne.	threatening.
Bg. Annie R. Storer, S. 8° 50′, W. 34° 30′*†	30.28	769.1				ese.			3		1		ese.	1 h'r	1 h'r	sm'h	ne.	fair.
Bk. Edmund Phiney, S. 48° 06′, W. 62° 32′ †.	29.84	757.9	62	16.7		nne.			4		1			0	0	mod.	nne.	hazy.
Bk. E. L. Pettingill, S. 35° 39′, W. 34° 18′*†	30.20	767.1	68	20.0		e.			3		8		e.	4 h'r	4 h'r	sm'h		raining.
S. E. B. Sutton, S. 13° 10′, W. 33° 40′†	30.09	764.3	79	26.1	82	e.			1		9		e.	½h'r	½h'r	mod	s.	light rain.
S. Grecian, S. 5° 55′, W. 30° 57′†	30.07	763.8	81	27.2	83	se.			5		4		se.	0	0	sm'h		clear.
S. Geo. Stetson, S. 51° —′ W. 57° —′ *†	29.75	755.6	58	14.4	82	nne.			6		4?		n.	0	0	sm'h	nw.	cloudy.?
Bkt. Josephine, S. 36° 06′, E. 14° 33′†	30.03	762.7	72	22.2	67	s.			4		8			3 h'r	3 h'r	long	ssw.	cloudy.
S. Titan, S. 23° 30′, W. 40° 09′ *†	30.08	764.0	79	26.1	95.	n.			5		3		n.	0	0	mod.	n.	fair.
Bk. Wandering Jew, Montevideo, Uruguay †	30.10	764.5	72	22.2		ese.			4		7		e.	0	0			fair.
S. Sacramento, S. 43° 22′, E. 8° 30′ *†	30.07	763.8	58	14.4	75	nw.			1		1			0	0	mod.	w.	clear.
District No 3—North Pacific.																		
S. S. Mexico, N. 29° 06′, W. 115° 50′†	30.15	765.8	60	15.6	88	calm			0		0					sm'h		clear.
S. S. Arabic, N. 31° 34′, E 134° 40′*†	30.22	767.6	49	9.4	78	nw.			4		2		ne.	0	0	light	ne.	clear.
S. S. Belgic, N. 24° 27′, E. 119° 20′ *†	30.16	766.1	53	11.7	80	ne.			5		10			0	0	r'gh	ne.	overcast.
S. S. Gaelic, N. 40° 58′, E. 154° 09′	29.58	751.3	38	3.3	72	wsw.			7		8		wsw.	10 h'r	10 h'r		wsw.	cloudy.
S. S. Oceanic, N. 33° 12′, W. 176° 00′ *	29.70	754.4	63	17.2	89	e.			3		0					high	nw.	clear.
S. S. Columbia, Point Bonita, Cal†	30.11	764.8	46.5	8.1	77	calm			0		0					sm'h		clear.
S. S. Mississippi, Seattle, Wash. Ter†	30.35	770.9	28	—2.2	59	calm			0		0							clear.
S. S. Willamette, Seattle, Wash. Ter†	30.32	770.1	25	— 3.9	100	calm			0		0			0	0			clear.
S. S. Ancon, N. 33° 34′, W. 118° 07′†	30.02	762.5	46	7.8	84	nne.			2		0					sm'h		clear.
S. S. City of Chester, Eureka, Cal *†	30.12	765.0	38	3.3	33	nw.			2		0			0	0			clear.
S. S. Dakota, Seattle, W. T			32	0.0	79	calm			0		0			0	0	sm'h	nw.	clear.
S. S. Queen of the Pacific, N. 45° 46′, W. 124° 06′ †	30.23	767.8				ne.			2		0						sm'h	clear.
S. S. City of Pekin, Hong Kong, China †	30.17	766.3	59	15.0	76	e.			4		8		ese.					cloudy.
S. S. City of Tokio, N. 33° 19′, W. 156° 32′ †	30.24	768.1	61	16.1	77	ne.			5				ne.	light	light	mod.	e.	clear.
S. S. City of Rio de Janeiro, Panama. Panama			79	26.1	95	nne.			2		1		n.	0	0	light	n.	fine.
S. S. Colima, N. 17° 34′ W. 102° 02′ †	29.99	761.7	79	26.1	91	e.			3		0			0	0	mod.	se.	clear.
S. S. Grenada, N. 15° 53′, W. 97° 30†	29.91	759.7	80	26.7	82	w.			1		0			0	0	sm'h	w.	clear.
H. M. S. Curacoa, Yokohama, Japan	30.09	764.3	38.5	3.6	64	nw.			3–4		3							d. clouds
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.89	759.2	72	22.2		ne.			2		10							overcast.
U. S. Naval Hospital, Yokohama, Japan*	30.27	768.8	32.5	0.3	48	nw.			3		1		w.	0	0			clear.
U. S. S Independence, Mare Island, Cal	30.16	766.1	33	0.6	89	calm			0		2			0	0			clear.
U. S. S. Lackawanna, Honolulu, Sandwich. Islands*	29.88	758.9	72	22.2	80	ne.			2		10							cloudy.
U. S. S. Monocacy, Amoy, China	30.25	768.3	56	13.3	69	ese.			2		10		calm					cloudy.
U. S. S. Palos, Tientsin, China*	30.41	772.4	27	— 2.8	100	sse.			1		8		sw.					fair.
U. S. S. Ranger, N. 34° 25′, W. 120° 23′	30.19	766.8	52	11.1	73	wnw.			3		2		nw.	0	0	sm'h		fair.
U. S. S. Richmond, Hong Kong, China*	30.09	764.3	61	16.1	82	calm			0		2		e.	0	0			fair.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.89	759.2	68	20.0	90	e.			1		5		e.			sm'h		fair.
S. S. Scotia, N. 2° 11′, E. 101° 40′	29.89	759.2	82	27.8	75	se.			2		3							d. clouds.
S. S. Henry Failing, N. 47° 10′, W. 125° 44′ †	30.33	770.4	40	4.4		se.			1		0			0	0	mod.	w.	fine.
S. S. St. Francis, N. 30° 37′, W. 125° 05′ †	30.31	769.9	56	13.3		ese.			2		4		se.	0	0	sm'h	e.	fair.
Tamega, Macao, China	30.19	766.7	61.7	16.5	78	calm			0		6							d. clouds
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.87	758.7	69	20.6	95	sse.			1		8							misty.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	30.18	766.6	69.3	20.7	85	n.			2		0					1	n.	blue sky.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.88	758.9	61	16.1		nne.			1							1	nne.	d. clouds
H. M. S. Rocket, S. 45° 00′, W. 73° 35′	29.74	755.4	57	13.9	94	nne.			2		4		nne.			sm'h		d. clouds
H. M. S. Swiftsure, S. 0° 30′, W. 97° 14′	29.93	760.2	74	23.3	100	s.			1–2		10		se.					overcast.
H. M. S. Sylvia, Anna Id, Patagonia	29.48	748.8	51.2	10.7	93	wnw.			1		3							showery.
U. S. S. Essex, Callao, Peru	29.90	759.4	68	20.0	90	sse.			0–1									foggy.
U. S. S. Iroquois, S. 26° 27′, W. 95° 13′	30.14	765.5	71	21.7	71	ese.			1		2		se.			long	ssw.	clear.
U. S. S. Onward. Callao, Peru*†	30.01	762.2	67	19.4	95	sse.			1		10							foggy.
U. S. S. Pensacola, Callao, Peru *	29.80	756.9	68	20.0	90	sse			1		10			0	0			foggy.
British Merchant, S. 13° 52′, W. 129° 15′	29.74	755.4	79.8	26.6	82	e.			4–5		2							d. clouds.
Bk. Childwall, S. 3° 50′, W 132° 00′ *	29.77	756.1	77	25.0		e.			4		4		e.	0	0	light	n.	fine.
Bk Gronsvaer, Auckland, N. Z †	30.15	765.7	74.5	23.6		ne.			5		5		ne.	½ h'r	½ h'r			fair.
S. S. Australia, S. 33° 51′, E. 151° 25′*	29.28	743.7	70	21.1	100	var.			6		10		sw.	2 h'r	2 h'r	mod.	sw.	thund'r st'm
S. S. City of Sydney, Sydney, N. S. W †	29.71	754.6	68	20.0	79	ene.			1		5		ne.	0	0	sm'h		fair
S. S. Zealandia, S. 1° 27′, W. 166° 11′	29.83	757.7	81	27.2	96	ne.			4		0					h'vy	ne.	fine.
H. M. S. Gannet, S. 21° 50′, W. 74° 46′	29.92	760.0	70	21.1	75	sse.			3		9					1		d. clouds.
Bk. Warden Law, S. 22° 11′ W. 78° 30′*	30.18	766.6				sse.			1		10		sse.	0	0	sm'h	sse.	covered.
S. Sovereign of the Seas, S. 46° 03′, W. 106° 38′ *†	30.32	770.1	55	12.8	93	wsw.			4		10		wsw.	0	0	high	sw.	misty.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 1° 00′, E. 48° 10′	29.84	757.9	80	26.7		nnw.			3–4		7		nne.			5	nne.	d. clouds
H. M. S. Eclipse, N. 25° 11′, E. 58° 43′	29.92	760.0	70	21.1		wnw.			1		0					2	wsw.	blue sky
H. M. S. Euryalus, N. 12° 10′, E. 88° 50′	29.89	759.2	78	25.6	86	ne.			2		2		calm			1	sm'h	d. clouds.
H. M. S. Himalaya, N. 5° 45′, E. 93° 47′	29.78	756.4	82	27.8	87	ne.			4–5		6					3	ne.	d. clouds
H. M. S. Woodlark, Bushire, Persia	30.04	763.0	63.5	17.5	57	w.			1–2		2							d. clouds.
S. S. Galatia, Suez Canal, Egypt†	30.09	764.3	70	21.1	92	nnw.			2		0			0	0	mod.	se.	clear.
Bk. Essex, S. 32° 40′, E. 30° 40′ *†	29.94	760.5	76	24.4		ssw.			2		2		s.	0	0	light	ssw.	fine.

International Chart I. February 9, 1883. Isobars and Isotherms.



By Order of the Secretary of War:
W.B.Hazen, Chief Signal Officer.

Signal Office Litho.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 10, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.31	769.9	59.4	15.2	76	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.16	766.1	57.2	14.0	51	wnw.	.....	.....	6	.....	0	.....	.....	0.039	1.0	clear	Thève.
La Calle	.....	.....	30.15	765.7	54.0	12.2	72	ssw.	.....	.....	1	.....	4	.....	.....	0.020	0.5	cloudy	Fonfrède.
Tunis	.....	.....	30.16	766.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.31	769.9	55.4	13.0	85	w.	.....	.....	2	.....	2	.....	.....	0	0	fair	Pérès.
Tebessa	.....	.....	30.26	768.6	46.8	8.2	87	n.	.....	.....	1	.....	3	.....	.....	0.157	4.0	pretty fair	Dognon.
Geriville	.....	.....	.....	.....	46.8	8.2	37	nnw.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Forfert.
Laghouat	.....	.....	30.30	769.5	66.8	16.0	41	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.27	768.8	60.1	15.6	39	nw.	.....	.....	6	.....	0	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.59	751.6	29.68	753.9	66.5	19.2	92	sse.	10	4.5	.....	.....	2	.....	.....	0.05	1.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.87	758.7	30.46	773.6	30.6	— 0.8	85	ne.	.....	.....	2	.....	10	.....	.....	0.008	0.2	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	29.58	751.4	30.40	772.1	30.9	— 0.6	94	e.	0	0	.....	.....	2	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.56	750.8	30.50	774.8	28.0	— 2.2	80	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.12	739.7	30.45	773.4	31.3	— 0.4	80	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	29.02	737.6	30.56	776.2	26.1	— 3.3	96	ese.	.....	.....	3	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.84	732.4	30.24	768.2	33.3	0.7	87	calm	.....	.....	0	.....	10	.....	.....	0.035	0.9	gloomy	The Staff.
Lemberg	29.49	749.0	30.56	776.2	25.5	— 3.6	69	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.89	683.1	30.44	773.1	31.6	— 0.2	.....	e.	.....	.....	2	.....	2	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.18	766.5	30.30	769.5	43.5	6.4	91	e.	.....	.....	2	.....	10	.....	.....	0.138	3.5	.....	I. R. Hydrographic Office.
Szathmar	30.01	762.3	30.48	774.1	34.7	1.5	66	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Joseph Midlinszay, S. J.
Szegedin	30.22	767.5	30.52	775.1	31.6	— 0.2	87	s.	.....	.....	2	.....	8	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.21	767.2	30.30	769.7	41.0	5.0	75	e.	.....	.....	1	.....	10	.....	.....	0.551	14.0	raining	Royal Academy.
Vienna	29.62	752.3	30.37	771.5	31.1	— 0.5	79	se.	.....	.....	3	.....	10	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.14	740.1	29.24	742.7	43.9	6.6	76	s.	12	5.4	.....	.....	2	.....	.....	0.005	0.1	blue sky	W. Boswell
Armagh, Observatory	29.66	738.1	29.29	744.0	43.6	6.4	74	ssw.	13	5.8	.....	.....	1	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.37	746.0	48.0	8.9	70	ssw.	8	3.6	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	28.84	732.5	29.37	746.0	46.0	7.8	85	ssw.	2	0.9	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth.
Bradford, Yorkshire	28.98	736.1	29.38	746.2	48.4	9.1	67	se.	.....	.....	1	.....	9	.....	.....	0.19	4.8	overcast	McLandsborough&Preston.
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	80.0	26.7	74	ne.	.....	.....	3	.....	6	.....	.....	.....	.....	gloomy	Corpl. J. Surgenor, A. H. C
Cardington	29.37	746.0	29.48	748.8	49.0	9.4	89	s.	.....	.....	1.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.42	747.3	29.55	750.6	45.5	7.5	100	sw.	.....	.....	5	.....	10	.....	.....	.....	.....	raining	Corpl. G. A. Pickles.
Falmouth, Observatory	29.16	740.7	29.39	746.5	47.0	8.7	89	s.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	The Staff.
Fort Napier, Natal	27.53	699.2	29.76	755.9	70.0	21.1	84	se.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	Corpl. F. Milner, A. H. C.
Freetown	29.57	751.1	29.80	756.9	88.0	31.1	88	sw.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	29.10	739.1	29.14	740.1	42	5.6	83	se.	.....	.....	3	.....	10	.....	.....	0.20	5.1	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.28	769.1	30.33	770.4	50.2	13.4	91	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	b,ue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.08	738.6	29.28	743.7	48.2	9.0	42	sw.	.....	.....	1	.....	2 k	.....	.....	.....	.....	blue sky	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.34	745.2	29.52	749.8	47.6	8.7	92	ssw.	.....	.....	5	.....	10	.....	.....	0.47	11.9	drizzling	The Staff.
Guernsey	29.16	740.7	29.45	748.0	48.5	9.2	90	sse.	.....	.....	5	.....	10	.....	.....	.....	.....	raining	A. Collenette, F. M. S.
Kew, Observatory	29 47	748.5	29.51	749.5	48.6	9.2	91	s.	22	9.8	.....	.....	10	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.15	740.4	29.40	746.7	49.2	9.6	93	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	J. C. Smith.
Malta, Mediterranean	30.06	763 5	30.13	765.3	62.0	16.7	88	se.	.....	.....	2	.....	9	.....	.....	0	0	overcast	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.23	767.8	30.27	768.8	74.2	23.4	77	e.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.89	733.8	29.41	747.0	47.9	8.8	90	s.	.....	.....	4	.....	10	.....	.....	.....	.....	threatening	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.23	742.4	29.46	748.3	49.3	9.6	91	s'	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	The Staff.
Plymouth	29.32	744.7	29.40	746.7	47.5	8.6	96	s.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	John Merrifield.
Sandwick Manse, Orkneys	28.98	730.1	29.08	738.6	41.6	5.3	85	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.36	771.1	30.42	772.7	29.8	— 1.2	85	nne.	.....	.....	2	.....	9	.....	.....	.....	.....	gloomy	W. H. Lyne.
Sheffield	29.09	738.9	29.37	746.0	48.9	9.4	80	sw.	.....	.....	1	.....	10	.....	.....	0.21	5.3	overcast	W. F. Cooper.
Silloth Rectory	29.30	744.2	29.34	745.2	46.0	8.1	80	wsw.	.....	.....	3	.....	3	.....	.....	0.070	1.8	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.39	746.5	46.0	7.8	54	sw.	8	3.6	.....	.....	10	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Stratfield Turgiss	29.28	743.7	29.59	749.3	49.4	9.7	95	s.	.....	.....	3	.....	10	.....	.....	.....	.....	raining	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.28	743.7	29.32	744.7	50	10.0	93	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.18	741.2	29.21	741.9	40.8	4.9	90	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.77	756.1	30.10	766.1	61.0	16.1	72	se.	3.1	1.4	.....	0	6 cn	.....	se.	0.134	3.4	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	—10	—23.3	.....	calm	0	0	.....	0	0	.....	.....	0	0	blue sky	Hon. J. Fergusen.
Charlottetown, P. E. Island	30.27	768.8	30.31	769.9	— 4	—20.0	86	nw.	13	5.8	.....	0	0	.....	.....	0.030	0.8	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.37	771.4	30.45	773.4	—13	—25.0	78	nw.	8	3.6	.....	0	0	.....	.....	c,	0	clear	G. A. Blair
Cornwall	30.47	773.9	30.70	779.8	—22.5	—30.3	100	nw.	.....	.....	1	0	0	.....	.....	0	0	blue sky	Jas. Smith, M. A.
Dalhousie	30.44	773.2	30.50	774.7	—15.0	—26.1	.....	w.	.....	.....	4	.....	7 s	.....	.....	0.100	2.5	d. clouds	H. A. Johnson.
Father Point, Quebec*	30.55	776.0	30.57	776.5	—14	—25.6	100	nne.	25	11.2	.....	.....	10 n	.....	calm	fnap.	fnap.	light snow	J. McWilliams.
Fort Garry, Manitoba*	29.12	739.6	30.06	763.5	— 5	—20.6	83	sw.	15	6.7	.....	.....	10 n	.....	sw.	fnap.	fnap.	light snow	James Stewart.
Fredericton	30.48	774.2	30.50	776.2	—11.9	—24.4	95	nw.	8	3.6	.....	0	0	.....	.....	0	0	blue sky	Prof. Harrison, L. L. D.
Granton	29.45	748.0	30.74	780.8	—10.9	—23.8	91	calm	0	0	.....	...	0	.....	.....	0	0	blue sky	Jas. Grant.
Halifax, N. S*	30.20	767.1	30.35	770.9	5	—15.0	69	nw.	15	6.7	.....	0	0	.....	.....	0.030	0.8	clear	A. Allison.
Hamilton	30.21	767.3	30.05	773.5	— 3.4	—19.7	90	sw.	.....	.....	1	4 k	0	w.	.....	0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	30.31	769.9	30.70	779.8	— 5	—20.6	91	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	30.46	773.7	30.70	779.8	—11	—23.9	95	calm	0	0	.....	.....	lig.	.....	.....	0.01	0.3	hazy	C. H. McLeod, C. E.
Ottawa	30.42	772.7	30.72	780.3	—16.9	—27.2	90	ne.	.....	.....	1	0	0	.....	.....	0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.84	757.9	30.69	779.5	—25	—31.7	72	n.	10	4.5	.....	5 k	5 ks	n.	n.	0.01	0.3	cloudy	Rev. R. Mosley.
Peterboro	29.86	758.4	30.77	781.5	—19.6	—28.7	100	calm	.....	.....	0	0	0	.....	.....	0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.88	758.9	30.07	779.0	— 3	—19.4	100	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. Morgan.
Port Stanley, Ontario	29.93	760.2	30.08	779.3	— 7	—21.7	100	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	M. Payne.
Quebec, Quebec*	30.28	769.1	30.07	779.0	— 2	—18.9	100	nw.	.....	.....	1	0	sk.	.....	.....	0.10	2.5	clear	Capt. Ashe, R. N
Rockliffe, Ontario*	30.15	765.8	30.72	780.3	—32	—35.0	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Sangeen, Ontario*	29.82	757.4	30.00	777.2	3	—16.1	91	se.	14	6.3	.....	.....	10 ks	.....	.....	0.11	2.8	cloudy	
St. Andrews, N. B	30.45	773.4	30.51	774.9	— 5	—20.6	100	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	
St. John, N. B	30.32	770.1	30.51	774.9	— 0	—21.1	61	n.	19	8.5	.....	0	0	.....	.....	0	0	blue sky	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.92	760.0	14.0	—10.0	.....	n.	.....	.....	7	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	29.23	742.4	30.02	777.7	—18.3	—27.9	93	calm	0	0	.....	0	0	.....	.....	0	0	blue sky	C. J. Macgregor, M. A.
Sydney, C. B*	30.08	764.0	30.15	765.8	2	—16.7	100	w.	16	7.2	.....	0	2 k	.....	nw.	0.02	0.5	fair	T. C. Hill, C. E.
Toronto, Ontario*	30.26	768.6	30.70	779.8	— 3	—19.4	83	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	Magnetic Observatory.
Windsor	30.26	768.6	30.36	771.1	3.0	—16.1	.....	w.	4	1.8	.....	0	0	.....	.....	0	0	blue sky	Prof. W. H. Butler, M. A
Woodstock	29.48	748.8	30.73	780.5	—12.2	—24.6	100	n.	6.0	2.7	.....	2 c	0	w.	.....	0	0	hazy	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.36	771.1	30.43	772.9	11	—11.7	66	n.	15	6.7	.....	0	5 k	.....	n.	fnap.	fnap.	clear	Lt. F. E. Wilmot, R.N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Cape Colony.																			
Cape St. Francis Lt. House	29.97	761.2	30.00	762.0	73.0	22.8	81	sw.	8.0	3.6	.....	0	5 k	.....	.....	0	0	hazy	John Duthie.
Springbok Fontein	27.86	707.6	.....	.....	84	28.9	64	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. T. Eustace.
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.43	620.6	.....	.....	29.8	— 1.2	.....	ese.	.....	.....	2	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.27	768.8	30.38	771.6	29.8	— 1.2	96	sw.	.....	.....	1	.....	10	.....	.....	0	0	foggy	R. P. Desarmont, S.J.
Zi-Ka-Wei, near Shanghai	30.43	772.9	30.45	773.5	32.9	0.5	86	e.	2.2	1.0	.....	.....	0	.....	.....	0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.97	761.2	30.02	762.4	32.2	0.1	92	sse.	16	7	.....	.....	10	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	29.78	756.5	29.80	757 0	37.6	3.1	93	s.	.....	.....	6	.....	9	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	28.88	733.6	28.93	734.7	— 6.5	—21.4	100	nnw.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	S. Kleinschmidt.
Ivigtut, Greenland	28.62	726.9	28.64	727.4	— 3.6	—19.8	.....	ne.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	
Jacobshavn, Greenland	29.04	737.7	29.09	738.9	—10.1	—23.4	... ..	calm	.....	.....	0	.....	7	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.11	713.9	28.15	715.0	37.0	2.8	80	e.	.....	.....	8	.....	8	.....	.....	.....	.....	.....	A. O. Thoriacius.
Thorshavn	28.81	731.7	28.84	732.6	40.6	4.8	82	ssw.	20	9	.....	.....	7	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	29.66	753.3	29.75	755.6	36.9	2.7	94	se.	.....	.....	6	.....	9	.....	.....	.....	.....	raining	Loerer Oesterbol.
Upernavik, Greenland	29.13	740.0	29.18	741.2	— 6.9	—21.6	.....	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	29.41	747.0	30.07	763.8	46.0	7.8	97	sse.	.....	.....	1	.....	fg	.....	.....	0	0	foggy	M. Labroue, Director.
Alençon, Normal School	29.23	742.5	29.78	756.5	45.0	7.2	88	s.	.....	.....	1	.....	cn	n.	n.	0.165	4.2	....	M. Nicot, Director.
Arras, Engineer School	29.43	747.5	29.69	754.2	44.2	6.8	90	s.	.....	.....	4	.....	10	.....	.....	0	0	covered	M. Fénéon, Command't.
Avignon, Normal School	30.03	762 7	30.11	764.7	51.8	11	86	se.	.....	.....	1	.....	5	.....	sse.	0.346	8.8	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.42	747.2	29.98	761.4	49.1	9.5	65	ssw.	.....	.....	1	0	8 kn	.....	s.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.57	751.0	29.84	757.8	46.2	7.9	72	s.	.....	.....	2	.....	10	.....	.....	0.157	4.0	covered	M. Frère Eugène Marié
Besançon, Normal School	29.22	742.3	30.17	766.4	55.8	13.2	68	sw.	.....	.....	1	.....	n	.....	sw.	0.28	7.	.....	M. Gobin, Director.
Bordeaux, Observatory	29.64	752.8	29.90	759.5	50.0	10.0	65	se.	.....	.....	3	.....	8	.....	.....	0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.39	746.4	29.94	760.5	50.0	10	62	se.	.....	.....	1	.....	kn	.....	.....	0.012	0.3	....	M. Maiet, Director.
Brest, Naval Observatory	29.19	741.3	29.43	747.5	51.4	10.8	97	sw.	.....	.....	6	.....	10	.....	sw.	0.551	14.0	raining	M. de Kermarec, Dir.
Caen, Normal School	29.71	754.5	29.78	756.4	47.1	8.4	86	nw.	.....	.....	2	.....	5	.....	n.	0.051	1.3	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.60	751.8	29.92	760 0	46.2	7.9	77	s.	.....	.....	2	.....	10	.....	.....	0.051	1.3	covered	M. Jadot, Director.
Charleville, Normal School	29.39	746.4	29.91	759.6	44.2	6.8	77	sse.	.....	.....	1	.....	10	.....	.....	0.16	4.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.61	726.8	29.97	761.1	56.1	13.4	48	se.	.....	.....	2	5 c	0	s.	.....	0.024	0.6	½ covered	M. Alluard, Director.
Cluny, Normal School	29.17	740.8	29.98	761.6	51.8	11	65	s.	.....	.....	4	.....	1	.....	sw.	0	0	....	M. de Villemontée, Dir.
Commercy, Normal School	29.18	741.1	30.06	763.4	45.1	7.3	79	se.	.....	.....	1	.....	5 n	se.	se.	0.024	0.6	cloudy	Dr. Goulet, Director.
Gap, Normal School	27.61	701.2	30.19	766.7	45.7	7.6	80	sw.	.....	.....	1	.....	8 n	.....	.....	0.79	20.	.....	M. Jeanglrard, Director.
Gréasque, du Rhone	29.02	737.2	30.17	766.2	50.9	10.5	86	e.	.....	.....	1	.....	10	.....	e.	0.043	1.1	covered	M. Kina, Director.
Grenoble. Normal School	29.33	744.9	30.11	764.7	52.9	11.6	71	wnw.	.....	.....	1	ck	0	s.	.....	0.067	1.7	.....	M. Abiard, Director.
Guéret	28.54	725.0	30.14	765.6	49.1	9.5	81	sw.	.....	.....	1	0	5 k	.....	sw.	0	0	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.26	743.3	29.53	750.1	49.3	9.6	92	sse.	.....	.....	6	.....	5	.....	sse.	0.20	5.	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.37	746.0	29.93	760.3	53.2	11.8	69	ese.	.....	.....	1	10 c	0	.....	.....	0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.49	749.0	29.59	751.6	51.8	11.0	90	s.	.....	.....	7	.....	10	.....	s.	0.709	18.0	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.00	736.5	30.06	763.4	53.4	11 9	74	sse.	.....	.....	2	.....	5 k	.....	s.	0.039	1.0	fair	M. André, Director.
Mans, Normal School	29.50	749.2	29.81	757.2	47.7	8.7	97	sw.	.....	.....	4	.....	10	.....	.....	0	0	covered	M. Piboën, Director.
Marseille, Observatory	29.90	759.4	30.17	766.3	54.7	12.6	71	ese.	.....	.....	1.2	.....	10	.....	se.	0.016	0.4	.....	M. Stephan, Director.
Montlouis	24.81	630.2	29.65	753.2	39.7	4.3	55	w.	20.6	9.2	.....	.....	6	w.	.....	0	0	.....	M. Caré for Dr. Fines.
Montpellier, Normal School	29.94	760.5	30.07	763.8	49.3	9.6	100	nne.	.....	.....	2	.....	5	se.	.....	0.16	4.	cloudy	M. Galzin, Director.
Nancy, Normal School	29.19	741.5	30.00	761.9	45.3	7.4	71	se.	.....	.....	1	ck	0	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	29.64	752.8	29.80	756.9	48.7	9.3	77	sse.	.....	.....	2–3	.....	10	.....	.....	0.012	0.3	rainy	M. Lavocque, Director.
Perpignan, Observatory	29.98	761.5	30.10	764.4	52.5	11.4	74	se.	11 2	5.0	.....	.....	3	nw.	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.15	537.1	.....	.....	29.1	— 1.6	.....	w.	.....	.....	1	.....	5	.....	w.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.06	738.2	30.15	765.7	50.0	10	86	n.	.....	.....	4	.....	8	s.	s.	0.591	15.0	very cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25 08	637.0	.....	.....	35.2	1.8	90	s.	.....	.....	4	.....	5 k	.....	wsw.	0.154	3.9	½ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.84	758.0	29.87	758.8	47.8	8.8	86	s.	.....	.....	3	.....	10	.....	ssw.	0.47	12.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.56	750.7	29.77	756.2	47.5	8.6	81	se.	.....	.....	3	.....	8	.....	se.	0	0	very cloudy	M. Brotier, Director.
Rodez, Normal School	27.88	708.1	30.04	763.1	49.3	9.6	85	se.	.....	.....	3	.....	k	.....	se.	0.008	0.2	.....	M. Seger, Director.
Rouen, Normal School	29.68	753.8	29.72	755.0	46.0	7.8	80	s.	.....	.....	2	.....	10	.....	s.	0.185	4.7	covered	M. Mouillot.
Saint Lô	.....	.....	.....	.....	48.0	8 9	78	sw.	.....	.....	2	.....	10	.....	sw.	0.102	2.6	light rain	M. Delaplanche, Dir.
Saint Maur, Observatory	29.71	754.7	29.88	758.9	45.9	7.7	73	s.	.....	.....	2	.....	10	.....	.....	0.047	1.2	....	M. Renou, Director.
Toulouse, Observatory	29.34	745 2	30.06	763.6	52.3	11.3	79	se.	.....	.....	3	.....	5	nw.	.....	0	0	cloudy	M. Baillaud, Director.
Tours	29.68	753.8	29.85	758.3	51.1	10.6	62	sse.	.....	.....	2	.....	10	.....	s.	0	0	covered	M. de Tastes.
Versailles, Observatory	29.37	745.9	29.86	758.4	45.0	7.2	69	s.	.....	.....	4	.....	.....	.....	.....	0.102	2.6	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.79	756.7	29.94	760.5	57.7	14.3	48	s.	5.8	2.6	.....	0	9 k	.....	w.	0.012	0.3	.....	M. Cartier, Director.
German.																			
Ansbach	28.67	728.1	30.16	766.1	41.7	5.4	83	s.	.....	.....	2	.....	8	s.	.....	0.217	5.5	.....	Prof. Jnedt.
Bamberg	29.21	741.8	30.05	763.2	39.7	4.3	77	sw.	.....	.....	3	.....	9 ks	.....	sw.	0.130	3.3	raining	Prof. Dr. Hoh.
Berlin	29.98	761.4	30.13	765.2	36.9	2.7	74	s.	.....	.....	3	.....	10	.....	.....	0.035	0.9	.....	Meteorological Institute.
Breslau	29.73	755.2	30.27	768.8	34.7	1.5	72	sse.	.....	.....	2	.....	10	.....	.....	0	0	foggy	Royal University Observ'y
Carlsruhe	29.63	752.6	30.10	764.5	48.2	9.0	68	e.	.....	.....	1	.....	9	nw.	.....	0	0	.....	Albert Senz.
Cassel	29.28	743.8	30.00	761.9	45.3	7.4	74	s.	.....	.....	4	.....	5	s.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.68	753.9	30.06	763.4	47.3	8.5	74	ssw.	.....	.....	1	.....	7	.....	.....	0.146	3.7	.....	Physical Society.
Friedrichshafen	28.67	728.1	30.13	765.3	45.7	7.6	80	ese.	.....	.....	1	.....	3	se.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	29.85	758.3	29.95	760.6	41.4	5.2	81	sse.	.....	.....	4	.....	8	w.	.....	0.339	8.6	light haze	E. Preller.
Kiel	29.94	760.4	29.95	760.8	39.2	4.0	93	sse.	.....	.....	2	.....	7	.....	.....	0.161	4.1	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.70	754.4	30.13	765.4	38.5	3.6	80	s.	.....	.....	3	.....	8	wsw.	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	29.88	758.9	30.08	763.9	41.2	5.1	88	s.	.....	.....	3	.....	5	nw.	.....	0.264	6.7	.....	Dr. Assmann.
Memel	30.38	771.6	30.43	772.8	27.0	— 2.8	72	se.	.....	.....	4	0	0	.....	.....	.....	.....	clear	Issermann.
Munich	28.29	718.6	30.16	766.1	41.0	5.0	89	sw.	.....	.....	1	.....	9	w.	.....	0.378	9.6	.....	Central Station.
Neufahrwasser	30.30	769.5	30.31	769.9	32.4	0.2	69	se.	.....	.....	4	.....	5	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.51	749.5	30.04	762 9	45.0	7.2	83	s.	.....	.....	2	.....	8	s.	.....	0	0	.....	Dickmether.
Stuttgart	29.09	738.9	30.00	762.0	40.4	8.0	72	s.	.....	.....	1	.....	7	w.	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	30.03	762.7	30.05	763.3	34.3	1.3	96	se.	.....	.....	3	.....	10 8	.....	.....	0.012	0.3	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.94	760.5	30.34	770.7	43.3	6.3	.....	n.	.....	.....	2.0	.....	10	.....	.....	0	0	covered	Schmidt & Wourtisch.
Indian.																			
Kurrachee	29.94	760.5	30.00	761.9	72.9	22.7	66	wsw.	23.0	10.3	.....	.....	3	w.	.....	0	0	d. clouds	
Deesa	29.46	748.2	29.93	760.3	82.5	28.1	30	ssw.	8.0	3.6	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.91	759.8	29.95	760.8	80.2	26.8	60	nw.	14.0	6.3	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.04	712.2	29.87	758.7	87.4	30.8	26	w.	6.0	2.7	.....	.....	3	.....	w.	0	0	d. clouds	
Belgaum	27.38	695.4	29.89	759.2	82.5	28.1	33	wsw.	10.0	4.5	.....	.....	3	e.	.....	0	0	d. clouds	
Lahore	29.27	743.4	30.04	762.9	66.6	19.2	41	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	29.09	738.9	30.02	762.4	67.8	19.9	38	calm	0	0	.....	.....	0	.....	.....	0	0	.....	
Agra	29.45	747.9	30.02	762.6	74.2	23.4	30	ne.	.....	.....	.....	.....	0	.....	.....	0	0	.....	
Nagpur	28.86	733.0	29.89	759.1	88.7	31.5	27	ssw.	12.0	5.4	.....	.....	6	w.	.....	0	0	blue sky	
Jubbulpore	28.59	726.1	29.95	760.6	80.4	26.9	37	n.	6.0	2.7	.....	.....	3	.....	nw.	0	0	d. clouds	
Lucknow	29.64	752.9	30.03	762.8	67.3	19.6	44	calm	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.68	753.9	30.00	762.1	70.0	21.1	52	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.82	757.4	30.01	762.2	72.1	22.3	46	w.	1.9	0.8	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.95	709.9	30.00	762.0	69.8	21.0	41	n.	2.8	1.2	.....	.....	4	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.91	759.8	30.00	761.9	79.9	26.6	51	s.	4.0	1.8			0			0	0	blue sky	
Calcutta, Alipore	29.99	761.8	30.01	762.3	76.8	24.9	44	wsw.	3.0	1.3			0			0	0	blue sky	
Dhubri	29.88	759.0	30.00	762.1	70.9	21.6	57	calm	0.3	0.1			0			0	0	blue sky	
Chittagong	29.97	761.3	30.07	765.7	69.6	20.9	59	calm	3.3	1.5			0			0	0	blue sky	
Sibsagar	29.68	753.8	30.03	762.6	65.9	17.7	77	ne.	2.0	0.9			0	sw.	sw.	0	0	d. clouds	
Jeypore	28.54	724.9	30.01	762.2	72.4	22.4	41	s.	2.6	1.2			0			0	0	blue sky	
Bellary	28.46	722.9			85.2	29.6	27	se.	8	3.6		3 c	0			0	0	d, clouds	
Trichinopoly	29.70	754.4			84.9	29.4	35	ene.	1	0 4			0			c	0	d. clouds	
ITALIAN.																			
Udine	29.93	760.1	30.35	770.8	38.5	3.6	87	ne.	1.3	0.6			10			0.098	2.5		Prof. Giovanni Clodig.
Milan	29.80	757.0	30.34	770.6	39.9	4.4	87	e.	1.3	0.6			10	sse.		0.205	5.2		Prof. Schiapparelli.
Padua	30.22	767.5	30.33	770.4	39.2	4.0	90	nne.	8.7	3.9			10			0.114	2.9		Prof. Dott. Lorenzoni.
Moncalieri	29.39	746.5	30.34	770.5	39.9	4.4	89	se.	0	0			10			0	0		Prof. F. F. Denza.
Genoa	30.03	762.8	30.23	767.8	45.0	7.2	63	ne.	11.9	5.3			8	sw.		0.126	3.2		Prof. G. M. Garibaldi.
Mondovi	28.35	720.0	30.34	770.5	37.2	2.9	86	w.			2		10			0.118	3.0		Prof. D. C. Bruno.
Pesaro	30.32	770.1	30.37	771.4	41.0	5.0	90	n.	1.8	0.8			10			0.150	3.8		Prof. Luigi Guidi.
Florence	29.97	761.2	30.23	767.8	48.2	9.0	84	ne.			2		10			0.217	5.5		Prof. Costantino Pittei.
Leghorn	30.06	763.4	30.14	765.6	50.9	10.5	91	ne.	9.4	4.2			10	s.		0.067	1.6		Prof. P. Monte.
Rome	30.02	762.6	30.20	767.1	58.6	14.8	58	nne.	0.7	0.3			7			0	0		Prof. P. Tachini.
Lecce	30.00	762.0	30.20	768.6	51.4	10.8	59	ne.	13.6	6.1			4	ne.		0	0		Prof. C. de Giorgi.
Cosenza	29.34	745.3	30.25	768.3	55.8	13.2	77	e.	2.5	1.1			9	se.		0	0		Prof. D. Conti.
Cagliari	29.89	759.1	30.08	764.1	57.4	14.1	79	nw.			2		10			0	0		Prof. A. Pacinotti.
Palermo	29.92	759.9	30.17	766.3	60.1	15.6	60	ne.	3.8	1.7			9			0	0		Prof. G. Caccintore.
Syracuse	30.13	765.4	30.18	766.5	57.2	14.0	79	e.	4.3	1.9			10	e.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.69	754.1	30.22	767.7	56.7	13.7	63	n.	0	0			9	sw.		0	0		Prof. F. Brioschi.
Stelvio	22.17	563.2			23.4	— 4.8	100	sw.			2		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.18	563.4			27.7	— 2.4	97	w.			2		4			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.30	769.5	30.33	770.3	11.0	—11.7	100	calm			0	1 ck	0	w.		0	0	clear	H. Hattori.
Awomori	30.27	768.8	30.31	769.9	12.8	—10.7	73	sw.	2.8	1.2		0	1 ks			0	0	clear	K. Ogawa.
Hakodate	30.31	769.9	30.32	770.2	19.0	— 6.9	93	n.	6.0	2.7		0	0			0	0	clear	
Hamamatsu	30.27	768.8	30.30	769.6	34.0	1.1	62	calm			0	0	0			0	0	clear	
Kagoshima	30.26	768.6	30.27	768.9	41.4	5.2	67	nw.			2	0	0			0	0	clear	G. Miyanonasa.
Kioto	30.17	766.3	30.35	771.0	31.3	— 0.4	68	nne.	1.7	0.7		0	4 s			0	0	fair	M. Tojima.
Kochi	30.25	768.2	30.28	769.1	40.9	4.9	85	w.	1.7	0.7		0	0			0	0	clear	K. Kusunose.
Miasaka	30.24	768.2	30.27	768.9	45.6	7.6	81	calm			0	9	9 ks;s		s.	0.008	0.2	cloudy	K. Masusaki.
Nagasaki, I. M. Obs'y	30.08	764.1	30.29	769.5	39.7	4.3	79	calm	0	0		0	0			0	0	clear	S. Takehayashi.
Niigata	30.31	769.9	30.35	770.9	30.0	— 1.1	93	sw.	3.3	1.4			9 n		w.	0.100	2.5	light snow	M. Morita.
Nobira	30.29	769.5	30.31	769.9	19.0	— 7.2	100	nnw.	0.8	0.4		0	2 s			0	0	fair	H. Midzushima.
Numazu	30.29	769.3	30.32	770.2	33.3	0.7	86	e.			2	0	8 ks			0	0	cloudy	R. Kaneda.
Osaka	30.34	770.5	30.35	771.0	32.5	0.3	78	ne.	4.7	2.1		0	0			0	0	clear	H. Omura.
Sakai	30.32	770.2	30.33	770.5	38.0	3.3	75	e.			2		10 s			0.004	0.1	cloudy	K. Yamawchi.
Sapporo					19.0	— 7.2	66	calm	0	0			10			0	0	covered	
Tokei Obs'y, Yeddo	30.26	768.6	30.34	770.7	26.8	— 2.9	62	ne.	3.3	1.4		0	0			0	0	clear	The Staff.
Wakayama	30.26	768.7	30.32	770.1	32.2	0.1	78	ne.	5.8	2.6		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.71	754.6	29.90	759.4	81.5	27.5	68	ne.	14.5	6.5		3 cs	4 k		ne.	0.02	0.5	fair	Oliver & Figon.
MEXICAN.																			
Altata					60	15.6	70	nw.										clear	H. Diaz Pena.
Guanajuato	23.74	603.0	29.96	761.0	53.1	11.7	91	w.	inap.	inap.		0	0			0	0	foggy	Prof. Vicente Fernandez.
Leon	24.39	619.5	30.24	768.1	46.4	8.0	86	wnw.			1	0	0			0	0	clear	Prof. M. Leal.
Mazatlan	29.73	755.1	29.99	761.8	63.0	17.2	83	e.	1.6	0.8		0	0			0	0	hazy	F. Quijano, U. E.
Mexico, Central Obs'y	23.16	588.2	30.30	769.6	50.4	10.2	85	calm	0	0		0	3 ck			0	0	fair	The Staff.
Morelia	24.39	619.5	30.36	771.1	52.3	11.3	67	se.			2	1 c	1 k	s.	s.	inap.	inap.		M. Tena, M. D.
Pabellon	24.03	610.4	30.12	765.0	52.7	11.5	74	n.			1	0	0			0	0	fine	
Puebla, Catholic Institute	23.45	595.7	30.35	771.0	45.5	7.5	87	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
Zacatecas	22.59	573.8	30.29	769.3	52.7	11.5	50	ene.	4.4	2.0		1 ck	0	e		0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.75	755.7	29.75	755.7	45.3	7.4		s.			6					0.063	1.6		
Groningen	29.76	756.0	29.82	757.4	43.0	6.1		s.			4					0.173	4.4		
Helder																0.134	3.4		
Hellevoetsluis	29.78	756.5	29.78	756.5	44.4	6.9	85	s.			3					0	0		
Utrecht	29.78	759.3	29.82	757.5	44.8	7.1	77	s.			4		8			0.012	0.3	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.91	759.8			75.9	24.4	93	wnw.	0	0			10			0.47	12.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.39	746.4	29.45	748.0	39.2	4.0	67	s.	25	11			10			0.386	9.8		
Brono	29.52	749.9	29.56	750.9	35.6	2.0	57	s.			6		8			0	0		
Christiania	29.75	755.6	29.90	759.5	30.9	— 0.6	100	se.	4	2			10			0.004	0.1	snowing	
Gjæsvær	29.67	753.7	29.70	754.3	30.9	— 0.6		calm			0		6						
Lodingen	29.03	752.5	29.07	753.7	29.7	— 1.3	95	se.			2		10			0	0		
PORTUGUESE.																			
Angra, Azores	30.06	763.4	30.21	767.4	56.5	13.6	82	nw.	11.2	5.0			3			0.079	2.0		Dr. J. A. Sampaio.
Campo Major	29.21	741.8	30.23	767.9	49.8	9.9	76	ssw.	4.9	2.2			10			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.30	769.5	30.38	771.7	63.1	17.3	58	wsw.	9.8	4.4			10			c	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.84	758.0	30.21	767.2	55.0	12.8	89	ssw.	23.7	10.6			10			0.012	0.3		The Staff.
Ponta Delgada, Azores	30.18	766.5	30.25	768.3	61.2	16.2	58	nw.	4.9	2.2			4			0.028	0.7		
Saint Paul de Loando	29.72	754.8	29.91	759.8	85.3	29.6	87	wnw.	0.7	0 3			8			0	0		
Serra da Estrella	25.30	642.5	30.14	765.6	37.8	3.2	100	sw.			3		10			0.827	21.0	foggy	
RUSSIAN.																			
Akmolinski	28.50	723.8	29.67	753.7	3.6	—15.8	90	sw.	22	10			9 km			0	0		Major K. Lasarew.
Archangel	30.15	765.8	30.17	766.3	8.2	—13.2	84	sw.	2	1			10			0	0		Capt. Ssellwerstow.
Asiuranda	30.44	773.1	30.34	770.7	39.6	4.2	73	e.	9	4		0	1 k			blank	blank		
Astrakhan	30.43	773.0	30.35	770.9	21.2	— 6.0	74	wnw.	11	5		0	1 s			0	0		Capt. Wisganow.
Baku	30.39	771.8	30.34	770.6	35.8	2.1	71	n.	13	6		0	4 k			0	0		
Barnaul	29.35	745.4	29.89	759.2	9.5	—12.5	88	sw.	4	2			10			0.075	1.9		Meteorological Obs'y.
Bielosersk	29.98	761.0	30.50	774.6	14.9	— 9.5	55	calm	0	0		1 c	0			0	0		
Dorpat	30.26	768.6	30.53	775.5	9.7	—12.4	100	se.	4	2		0	0			0	0		Observatory.
Ekaterinburg	28 89	733.9	29.94	760.4	6.4	—14.2	90	nnw.	9	4			10			inap.	inap.	snowing	Meteorological Obs'y.
Ellsanawetgrad	30.13	765.2	30.62	777.7	13.6	—10.2	78	n.	13	6		0	1 ks			0	0		
Irkutsk	28.31	719.1	30.12	765.1	3.6	—16.1	81	se.			2		2			0	0		
Kasalinsk	29.53	750.1	29.71	754.6	14.7	— 9.6	75	sw.	18	8			10 k						
Kasan	29.88	758.9	30.16	766.1	28.2	— 2.1	75	nw.	11	5			10			inap.	inap.	snowing	Observatory.
Kem	30.11	764.8	30.16	766.1	15.1	— 9.4	62	w.	13	6		0	0			0	0		
Kertch	30.26	768.6	30.28	769.1	22.1	— 5.5	90	calm	0	0		0	5 k			0	0		Lagorio & Sastyrea.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Kieff	29.92	760.0	30.62	777.8	16.0	— 8.9	85	n.	7	3	.....	1 c	0	.....	.....	inap.	inap.	light clouds	Observatory.
Koslov	29.93	760.1	30.50	774.6	21.6	— 5.8	90	nnw.	9	4	.....	.....	10 s	.....	.....	blank	blank	.....	
Liban	30.35	770.9	30.37	771 5	28.6	— 1.9	64	se.	11	5	.....	.....	0	.....	.....	0	0	.....	E. Quaas.
Lugan	30.23	767.8	30.39	772.0	16.3	— 8.7	71	nw.	9	4	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	30.02	762.5	30.56	776.2	8.8	—12.9	84	wnw.	4	2	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	30.48	774.2	30.63	778.1	16.5	— 8.6	70	n.	13	6	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.37	771.3	30.45	773.5	—14.8	—26.0	68	w.	4	2	.....	.....	0	.....	.....	0	0	.....	Iwanow.
Pekin, China	30.19	766.8	30.34	770.6	29.1	— 1.6	78	calm	0	0	.....	.....	9 n	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.99	761.8	30.37	771.4	20.1	— 6.6	50	sw.	2	1	.....	10 c	0	.....	.....	0	0	.....	
Petrozavodsk	30.19	766 9	30.41	772.3	19.8	— 6.8	49	nw.	9	4	.....	0	0	.....	.....	0	0	.....	
Pinsk	30.10	764.4	30.64	778.3	18.3	— 7.6	89	ese.	7	3	.....	.....	10 s	.....	.....	0	0	.....	Dr. Bergmann.
Poti	30.09	764.3	30.11	764.8	53.6	12.0	76	w.	4	2	.....	0	0	.....	.....	0	0	.....	
St. Petersburg	30.49	774.4	30.50	774.8	8.1	—13.3	94	se.	7	3	.....	0	0	.....	.....	0	0	.....	
Samarkand	27.65	702.4	30.31	769.8	21.0	— 6.1	84	w.	3.4	1.5	.....	.....	10 n	.....	.....	0	0	.....	Central Physical Obs'y.
Semipalatinsk	29.19	741.3	29.88	758.9	14.7	— 9.6	81	sw.	18	8	.....	.....	10	.....	.....	inap.	inap.	.....	Major Lasarew.
Sevastopol	30.05	763.2	30.29	769.3	34.9	1.6	40	nne.	27	12	.....	0	1 s	.....	.....	0	0	.....	
Staroi Bykhov	30.18	766.5	30.69	779.4	13.8	—10.1	93	calm	0	0	.....	.....	.....	.....	.....	0	0	.....	
Tashkend	28.53	724.7	30.35	771.0	17.2	— 8.2	78	calm	0	0	.....	.....	10 n	.....	.....	0.035	0.9	.....	Terch, A. M.
Tiflis	28.82	731.9	30.31	769.9	33.6	0.9	70	se.	7	3	.....	.....	10 n	.....	.....	0.004	0.1	.....	Physical Observatory.
Vernoe	27.45	697.1	30.13	765.3	17.8	— 7.9	82	ne.	18	8	.....	.....	10 n	.....	.....	.....	.....	.....	
Viatka	29.50	749.2	30.17	766.2	23.7	— 4.6	.....	n.	2	1	.....	.....	10	.....	.....	0	0	.....	
Vladivostock	30.33	770.3	30.39	772.0	9.5	—12.4	26	n.	11	5	.....	.....	3 s	.....	.....	0	0	.....	
Warsaw	30.00	761.9	30.45	773.5	25.7	— 3.5	75	s.	16	7	.....	0	0	.....	.....	0	0	.....	
Wilna	30.14	765.6	30.60	777.3	16.3	— 8.7	82	se.	2	1	.....	.....	0	.....	.....	0	0	.....	Astronomical Obs'y.
Yeniseisk	29.81	757.0	30.14	765.6	—27.8	—33.2	77	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Berg, Assistant.
																			M. O. Marks.
Scottish.																			
Monach Lt	.....	.....	29.05	737.9	45	7.2	92	sw.	.....	.....	4	5	5	sw.	.....	0.3	8.	showery	J. Youngclause.
North Unst	.....	.....	29.07	738.4	.....	.....	.....	s.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.04	763.1	30.15	765.8	55.8	13.2	63	sw.	2.7	1.2	.....	0	2	.....	.....	0.374	9.5	clouds	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.88	759.0	29.94	760.5	60.1	15.6	57	s.	4.3	1.9	.....	.....	10	.....	.....	0	0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.09	688.1	30.14	765.6	43.2	6.2	82	s.	13.0	5.8	.....	0	8	.....	.....	0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.95	710.0	30.27	768.9	41.9	5.5	89	sw.	12.5	5.6	.....	.....	10	.....	.....	0	0	covered	The Staff.
Murcia, Met. Obs'y	30.08	763.9	30.21	767.2	57.0	13.9	58	sw.	6.7	3.0	.....	3	6	e.	.....	0	0	almost cov'd	Olayo Diaz, Director.
Oviedo	28.99	736.4	29.85	758.3	54.5	12.5	56	s.	12.7	5.7	.....	8 k	4 n	n.	ne.	0.024	0.6	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.84	732.4	29.73	755.1	53.1	11.7	93	s.	51.0	22.8	.....	.....	10	.....	.....	1.024	26.0	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.91	759.6	29.97	761.1	77.4	25.2	85	e.	9.7	4.3	.....	.....	3 ks	.....	e.	0.047	1.2	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.25	768.2	30.35	770 8	56.7	13.7	59	calm	0	0	.....	.....	10	.....	e.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.09	764.2	30.18	766.5	75.9	24.4	83	se.	8.7	3.9	.....	0	8 kn	.....	se.	0.059	1.5	overcast	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	30.02	762.6	30.06	763.6	16.5	— 8.6	100	s.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Umea	30.04	763.0	30.09	764.3	28.0	— 2.2	96	sw.	.....	.....	7	.....	10	.....	.....	0	0	.....	
Hernosand	29.98	761.4	30.03	762 7	29.1	— 1.6	84	ssw.	.....	.....	6	.....	10	.....	.....	0	0	.....	
Stockholm	29.98	761 6	30.16	766.1	31.6	— 0.2	78	ssw.	.....	.....	6	.....	10	.....	.....	0	0	.....	
Wisby	30.16	766.1	30.22	767.6	33.4	0.8	75	s.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.04	763.0	30.13	765.2	31.3	— 0.4	83	s.	23.0	10.3	.....	.....	10	.....	s.	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	28.65	727.7	30.10	764.5	46.8	8.2	67	n.	.....	.....	2	.....	3	.....	.....	0.047	1.2	.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.46	773.7	29.1	— 1.6	78	n.	23	10.0	.....	.....	10	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	30.24	768 2	54.5	12.5	.....	nw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.05	763.3	64.0	17.8	64	sw.	.....	.....	1	.....	1 ks	.....	.....	0.12	3.0	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred L. Kingsbury.
United States.																			
Albany, New York	30.58	776.7	30.67	779.0	13	—10.6	73	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.86	758.4	30.57	776.5	— 9	—22.8	55	w.	1	0.4	.....	0	0	.....	.....	inap.	inap.	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.07	636 8	30.17	766.3	40	4.4	100	se.	2	0.9	.....	.....	1c n	.....	.....	0.54	13.7	light rain	W. C. Barnes.
Assinnaboine, Ft., Montana	27.03	686.5	30.07	763.8	— 2	—18.9	68	sw.	12	5.4	.....	0	2 s	.....	sw.	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.18	741 2	30.40	772.1	47.0	8.3	100	e.	5	2.2	.....	.....	fg.	.....	.....	0.51	13.0	dense fog	H. C. Smyth.
Atlantic City, New Jersey	30.59	777.0	30.60	777 2	25	— 3.9	64	n.	13	5.8	.....	4 cs	0	.....	.....	0	0	fair	Jas. M. Watson.
Augusta, Georgia	30.27	768.8	30.47	773 9	53	11.7	86	ne.	2	0.9	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	John Healy.
Baltimore, Maryland	30.59	777.0	30.64	778.2	30	— 1.1	68	n.	8	3.6	.....	7 cs	0	w.	.....	0	0	fair	Geo W Felger.
Barnegat, New Jersey	30.59	777.0	30.61	777.5	25.0	— 3.9	70	n.	20	8.9	.....	9 ck	0	nw.	.....	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	30.34	770.6	30.36	771.1	31.8	— 0.1	.....	e.	17	7.6	.....	.....	10 n	.....	.....	0.05	1.3	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.30	718.8	30.03	762.7	9	—12.8	80	calm	0	0	.....	.....	1 s	.....	.....	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.08	687.8	30.08	764.0	— 3	—19.4	68	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Billings, Montana	26.66	677.2	.....	.....	— 3	—19.4	50	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Bismarck, Dakota	28.07	713.0	30.05	763.3	— 7	—21.7	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.56	776.2	30.59	777.0	21	— 6.1	58	n.	31	13.9	.....	0	0	.....	.....	0	0	clear	J. T. Elker.
Boise City, Idaho	27.27	692.6	30.23	767.8	7	—13.9	91	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	30.42	772.7	30.58	776.7	15.0	— 9.4	48	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	30.07	763.8	30.12	765.0	63.0	17.2	100	s.	4	1.8	.....	.....	fg.	.....	.....	0.02	0.5	dense fog	M. McCarty.
Buffalo, New York	29.74	755.4	30.54	775.7	9	—12.8	81	ne.	1	0.4	.....	0	sk.	.....	.....	0	0	dense smoke	W. Finn.
Buford, Fort, Dakota	27.90	708.6	30.68	764.0	—13.0	—25.0	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. A. Mellen.
Burlington, Vermont	30.37	771.4	30.68	779.3	— 3.0	—19.4	65	n.	5	2.2	.....	0	0	.....	.....	0.01	0.3	clear	D. N. Farnell.
Cairo, Illinois	30.02	762.5	30.44	773 2	27.0	— 2.8	82	e.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy	W. H. Ray.
Cape Henry, Virginia	30.56	776.2	30.58	776.7	38	3.3	72	n.	16	7.2	.....	.....	10 s	.....	w.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.60	777.2	30.63	778.0	27.0	— 2.8	54	n.	15	6.7	.....	0	0	.....	.....	0	0	clear	W. E. Smith.
Cape Mendocino, California	29.40	746.7	30.10	764.5	39	3.9	82	calm	0	0	.....	8 k	0	se.	.....	0	0	cloudy	J. J. McLean.
Cedar Keys, Florida	30.30	769.6	30.32	770.1	66	18.9	90	ne.	5	2.2	.....	0	sk.	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.62	752.3	30.50	774.7	10.0	—12.2	58	e.	8	3.6	.....	.....	10 s	.....	e.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.35	770.9	30.41	772 4	53	11.7	93	ne.	8	3.6	.....	.....	10 s	.....	.....	0	0	threatening	J. H. Smith.
Charlotte, N. Carolina	29.59	751.6	30.48	774.2	45.0	7.2	93	e.	2	0.9	.....	.....	10 s	.....	e.	0.26	6.6	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.56	750.8	30.42	772.7	42.0	5.6	82	ne.	5	2.2	.....	.....	10n;fg	.....	ne.	0.29	7.4	light rain	B. L. Goulding.
Cheyenne, Wyoming	23.81	604 8	30.06	763 5	20.3	— 6.5	38	nw.	16	7.2	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.80	756.9	30.55	779.0	10.2	—12.1	82	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. Mitchell.
Chincoteague, Virginia	30.57	776.5	30.59	777.0	33	0.6	60	ne.	20	8.9	.....	3 ck	2 ks	nw.	.....	inap.	inap.	fair	C. F. Dickens.
Cincinnati, Ohio	29.89	759.2	30.58	775 7	25	— 3.9	88	n.	4	1.8	.....	0	5 s	.....	nw.	0	0	fair	R. B. Watkins.
Cleveland, Ohio	29.83	757.7	30.62	777.7	11	—11.7	80	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Newlin.
Coleman City, Texas	28.36	720.3	30.24	768.1	37	2.8	100	ne.	6	2.7	.....	.....	10 n	.....	ne.	0.26	6.6	light rain	L. Dorman.
Columbus, Ohio	29.68	753.9	30.58	776.7	18	— 7.8	83	n	3	1.3	.....	0	0	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.21	716.5	30.23	767.8	39.0	3.9	100	ne.	6	2.7	.....	.....	10 n	.....	.....	0.14	3.6	light rain	J. McGlone.
Davenport, Iowa	29.78	756.4	30.48	774.2	8	—13.3	55	ne.	5	2.2	.....	8 cs	fg.	.....	.....	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.23	640 8	30.19	766.8	40	4.4	67	calm	0	0	.....	0	7 ks	.....	se.	0	0	fair	J. Williams.
Dayton, Washington T'y	28.44	722.4	30.25	768.3	—14	—25.6	50	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.09	637.3	30.01	762 2	17	— 8.3	87	calm	0	0		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.57	776.5	30.59	777.0	30	— 1.1	78	n.	32	14.3		1 ck	2 k	w.	n.	0	0	clear	T. S. Townsend.
Denison, Texas	29.44	747.8	30.28	769.1	35.0	1.7	100	ne.	3	1.3			10 n			0.04	1.0	light rain	J. W. Byram.
Denver, Colorado	24.56	623.8	30.08	764.0	9.0	—12.8	83	calm	0	0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.46	748.3	30.43	772.9	9	—12.8	55	s.	4	1.8			10 s		s.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.89	759.2	30.64	778.2	9.2	—12.7	87	calm	0	0		0	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27 46	697.5	30.20	767.1	23	— 5.0	88	se.	18	8.0			10 ks			0	0	cloudy	V. P. Temple.
Dubuque, Iowa	29.76	755.9	30.52	775.2	— 3.8	—19.9	68	sw.	1	0.4			10 s		sw.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.47	748 5	30.28	769.1	— 1	—18.3	68	s.	5	2.2			10 s			0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.36	745.7	30.20	767.1	51.0	10.6	100	se.	3	1.3			10 n			0.01	0.3	light rain	F. Belford.
Eagle Rock, Idaho	25.28	642.1	30.18	766.6	—20	—28.9	100	n.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.44	773.2	30.51	774.0	— 4.0	—20 0	65	nw.	23	10.3		0	3 s		nw.	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.31	693.7	30.21	767.3	27	— 2.8	67	se.	8	3.6			10 s		se.	0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.26	667.0	30.14	765.5	50.5	10.3	66	calm	0	0			10 n			0.09	2.3	light rain	J. O'Dowd.
Erie, Pennsylvania	29.85	758.2	30.62	777.7	9	—12.8	76	calm	0	0			fg.			0	0	dense fog	Peter Wood.
Escanaba, Michigan	29.77	756.1	30.49	774.4	—18.0	—27.8		calm	0	0		0	3 s			0	0	clear	George Heathcote.
Fredericksburg, Texas	28.37	720.6	30.17	766.3	43	6.1	100	e.	2	0.9			10 s			0.05	1.3	cloudy	Frank Halwegler.
Galveston, Texas	30.14	765.5	30.19	766.8	56	13.3	100	e.	8	3.6			fg.			0.03	0.8	dense fog	E. O'C. MacInernay
Grand Haven, Michigan	29.84	757.9	30.55	776.0	2.0	—16.7	72	e.	1	0.4			10 s		se.	0	0	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.20	640.1	30.06	763.5	44.5	6.9	89	se.	2	0.9			10 n			0.15	3.8	light rain	Robert C. Lord.
Hatteras, North Carolina	30.46	773.7	30.48	774.2	45	7.2	83	ne	27	12.1			10 s		n.	0.81	20.6	threatening	R. M. Crawford.
Helena, Montana	25.60	650.2	30.00	762.0	— 8	—22.2	100	nw.	3	1.3		4 cs	0	calm		0	0	fair	N. C. Smith.
Henrietta, Texas	29.22	742.2	30.27	768.8	33	0.6	100	e.	2	0.9			10 n			inap.	inap.	light rain	J. P. Sherry.
Huron, Dakota	28.61	726.7	30.13	765.3	13.3	—10.3	61	se.	22	9.8			9 n			inap.	inap.	light snow	S. W. Glenn.
Indianapolis, Indiana	29.69	754.1	30.54	775.7	16	— 8.9	83	e.	4	1.8		0	9 s		ne.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.13	765.3	30.16	766.1	50.4	10.2	100	ne.	11	4.9			fg.			0.01	0.3	dense fog	I. A. Reed.
Jacksboro, Texas	29.04	737.6	30.28	769.1	35	1.7	69	e.	4	1.8			10 s			0	0	cloudy	D. J. Carr.
Jacksonville, Florida	30.34	770.6	30.38	771.6	61	16.1	93	n.	2	0.9			10 s			0.11	2.8	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.38	695.4	30.06	763.5	—10	—23.3	58	sw.	3	1.3		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.76	755.9	30.45	773.4	12.0	—11.1	61	e.	12	5.4			10 s		e.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.18	766.6	30.20	767.1	73.0	22.8	90	e.	10	4.5		0	5 k		e.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.50	774.7	30.52	775.2	42	5.6	65	ne.	35	15.6			10 s		ne.	0.31	7.9	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.35	745.5	30.13	772.9	39.8	4.3	82	n.	6	2.7			10 s			0.09	2.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.61	752.1	30.45	773.4	— 1	—18.3	68	s.	8	3.6		0	6 s			0	0	fair	S. C. Emery.
Leavenworth, Kansas	29.42	747.3	30.37	771.4	24	— 4.4	88	se.	4	1.8			10 s			0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.48	748.8	30.36	771.1	0.0	—17.8	68	calm	0	0		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	30.03	762.7	30.36	771.1	36	2.2	89	ne.	4	1.8			10 n			0.55	14.0	light rain	W. U. Simons.
Los Angeles, California	29.72	754.9	30.12	765.0	38	3.3	73	ne.	6	2.7		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.89	759.2	30.48	774.2	25.5	— 3.6	64	ne.	9	4.0		10 k	0	w.		0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.82	757.4	30.54	775.7	37.3	2.9	55	ne.	4	1.8		0	8 s		nw.	inap.	inap.	cloudy	Louis Duane.
Mackinaw City, Michigan	29.81	757.2	30.51	774.9	— 3.5	—19.7	68	se.	4	1.8		0	0			0	0	clear	F. R. Day.
Macon, Fort, North Carolina	30.44	773.2	30.45	773.4	46.0	7.8	93	n.	8	3.6			10 s		n.	0.74	18.8	cloudy	William Daly.
Madison, Wisconsin	29.41	747.0	30.50	774.7	— 1	—18.3	68	se.	6	2.7		4 cs	0	w.		0	0	fair	C. A. Shaw.
Maginnis, Fort, Montana	25.27	641.8	29.81	757.2	15	— 9.4	51	w.	24	10.7		10 k	0	w.		0	0	cloudy	F. Burke.
McKavett, Fort, Texas	27 89	708.4	30.27	768.8	43	6.1	93	ne.	4	1.8			10 n			0.16	4.1	light rain	J. E. Thatcher.
Marquette, Michigan	29.62	752.3	30.40	772.1	— 3	—19.4	31	sw.	6	2.7		0	0			inap.	inap.	clear	J. Gilligan.
Memphis, Tennessee	30.09	764.3	30.44	773.2	33	0.6	100	ne.	8	3.6			10 n			0.50	12.7	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.70	755.9	30.56	776.2	1	—17.2	72	w.	7	3.1			10 s		w.	0	0	cloudy	W. Line.
Missoula, Fort, Montana	26.82	681.2	30.25	768.3	—19	—28.3	100	calm	0	0		0	0			0	0	clear	I. H. Young.
Mobile, Alabama	30.26	768.6	30.30	769.6	57	13.9	86	n.	3	1.3		0	0			0	0	clear	C. A. Read.
Montgomery, Alabama	30.09	764.3	30.33	770.4	50.8	10.4	94	n.	2	0.9		3 k; hz	5k; fg	nw.	s.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.01	737.6	30.14	765.5	0	—17.8	100	s.	4	1.8			10 s			0	0	cloudy	H. Bessaut.
Morgantown, W. Virginia	29.55	750.6	30.62	777.7	21.8	— 5.7	59	ne.	3	1.3		0	0			0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H	23.40	594.3	30.02	762.5	—27.0	—32.8	100	nw.	90	40.2		0	0			0.37	9.4	clear	S. W. Beall.
Nashville, Tennessee	29.77	756.1	30.38	771.6	35.0	1.7	69	e.	6	2.7		10 cs	0			inap.	inap.	cloudy	L. N. Jesmofsky.
New Haven, Connecticut	30.48	774.2	30.60	777.2	16.5	— 8.6	50	n.	12	5.4		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.61	777.5	30.66	778.7	21	— 6.1	70	nw.	12	5.4		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.20	767.1	30.26	768.6	60.5	15.8	87	se.	5	2.2		0	0			0	0	fair	L. Dunne.
Newport, Rhode Island	30.52	775.2	30.57	776.5	21.3	— 5.9	93	nw.	21	9.4		1 c	0			0	0	clear	W. McGillivray.
New York, New York	30.44	773.2	30.63	778.0	23	— 5.0	88	nw.	1	0.4		2 cs	0			0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.55	776.0	30.58	776.7	38	3.3	54	ne.	15	6.7			10ks; hz		nw.	0	0	threatening	Wm. Davis.
North Platte, Nebraska	27.06	687.3	30.16	766.1	17.6	— 8.0	74	s.	13	5.8		0	5 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.14	765.5	30.18	766.6	15.0	— 9.4	67	ne.	1	0.4		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.06	738.1	30.33	770.4	19.3	— 7.1	69	se.	9	4.0		0	0			0	0	clear	A. Pollak.
Ooglanmie, Alaska	29.88	758.9	29.90	759.4	—17.5	—27.5		nnw.				hz.	hz.			0.10	2.5	dense haze.	P. H. Ray.
Oswego, New York	30.28	769.1	30.03	778 0	10.5	—11.9	69	e.	5	2.2		7 cs	0	ne.		inap.	inap.	fair	J. G. Linsley.
Palestine, Texas	29.68	753.9	30.26	768.6	43.0	6.1	100	ne.	4	1.8			10u; fg			0 41	10.4	light rain	L. M. Pindell.
Pensacola, Florida	30.28	769.1	30.31	769.9	60.0	15.6	84	ne.	6	2.7		2 cs	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.54	775.7	30.05	778.5	26	— 3.3	64	n.	9	4.0		4 cs	0	w.		0	0	fair	E. M. Mattison.
Pike's Peak, Colorado	17.52	445.0	30.24	768.1	— 3	—19.4	100	sw.			4	0	1 s			0	0	clear	H. Hall.
Pioche, Nevada	23.94	608.1	30.10	764.5	21	— 6.1	70	s.	1	0.4		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.74	755.4	30.60	777.2	18.0	— 7.8	84	e.	2	0.9		3 cs	0			0	0	clear	W. A. Reid.
Poplar River, Montana	27.77	705.3	30.12	765.0				nw.			1	0	0			0	0	clear	W. O. Maxwell.
Port Eads, Louisiana	30.26	768.6	30.27	768.8	62.0	16.7	93	ne.	11	4.9		0	0			0	0	clear	H. B. Boyer.
Port Huron, Michigan	29.86	758.4	30.59	777.0	— 2.4	—19.1	89	w.	1	0.4		10 cs	sk.		ne.	0	0	cloudy	W. O. Bailey.
Portland, Maine	30.52	775.2	30.57	776.5	11.0	—11.7	60	n.	7	3.1		0	hz			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.13	765.3	30.20	767.1	16.0	— 8.9	48	se.	2	0.9		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C					46	7.8	83	n.	31	13.9			10 s		nw.	0.53	13.5	cloudy	F. S. Coburn.
Prescott, Arizona	24.71	627.6	30.07	763.8	35.0	1.7	61	s.	2	0.9			10 s			0	0	cloudy	Jas Cassidy.
Provincetown, Mass	30.50	774.7	30.53	775.4	19.5	— 6.9	56	nw.	17	7.6		0	1 s			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.28	769.1	30.29	769.4	66.5	19.2	92	e	10	4.5		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.77	756.1	30.14	765.5	28	— 2.2	77	nw.	8	3.6		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.92	760.0	30.63	778.0	12	—11.1	89	nw.	5	2.2			9 k		nw.	0.01	0.3	cloudy	E. W. McGann
Roseburg, Oregon	29.59	751.6	30.16	766.1	27.6	— 2.4	82	n.	4	1.8			10 k		w.	0	0	cloudy	J. J. Nanry.
Sacramento, California	30.05	763.3	30.13	765 3	33.3	0.7	88	se.	5	2.2		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.83	757 7	30.47	773.9	19.7	— 6.8	88	e.	10	4.5			10 s		e.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.86	783.8	30.90	784.8	0	—17.8	100	w.	12	5.4		0	9 s		w.	inap.	inap.	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.41	747.0	30.35	770.9	0.0	—17.8	72	e.	4	1.8		3 cs	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.10	739.1	30.07	763.8	— 8	—22.2	76	sw.	9	4.0			10 s			0	0	cloudy	O. B Dilley.
Salt Lake City, Utah	25 63	651.0	30.19	766.8	7	—13.9	56	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.45	748.0	30.17	766.3	46.0	7.8	100	ne.	5	2.2			10 n			0.07	1.8	light rain	T. J. Kenan.
San Diego, California	30.02	762.5	30.09	764.3	49.0	9.4	86	sw.	5	2.2			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.90	759.4	30.62	777.7	10	—12.2	80	nw.	4	1.8		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.59	777.0	30.62	777.7	23.0	— 5.0	73	n.	23	10.3		3 k	0			0	0	clear	B. A. Blundon.
San Francisco, California	30.00	763.5	30.13	765.3	44	6.7	83	se.	6	2.7			10 s		sw.	inap.	inap.	threatening	N. Gorom.
Santa Fé, New Mexico	23.16	588.3	30.21	768.1	34	1.1	74	w.	3	1.3			10 n			0.14	3.6	light snow	H. U. Jones.
Savannah, Georgia	30.33	770.4	30.42	772.7	55	12.8	86	n.	6	2.7			10 s		n.	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.14	663 9	29.99	761.7	— 6	—21.1	64	w.	2	0.9		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.02	762.5	30.27	768.8	40	4.4	100	ne.	3	1.3			10 s		ne.	0.18	4.6	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.98	736.1	30.29	769.4	32	0.0	78	n.	9	4.0			10 s			0	0	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.30	617.2	30.14	765.5	38.0	3.3	92	nw.	3	1.3			10 s			0.10	2.5	cloudy	N. D. Lane.
Sitka, Alaska	29.93	760.2	30.00	762.0	36.1	2.3	79	e.	4	1.8			10 ks		e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.80	756.9	30.30	769.6	33.0	0.0	88	e.	7	3.1			10 s			inap.	inap.	cloudy	J. B. Campbell.
Smithville, North Carolina	30.43	772.9	30.47	773.9	50	10.0	77	ne.	8	3.6			10 s			inap.	inap.	cloudy	O. Parker.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.11	714.0	30.24	768.1	2	—16.7	79	e.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	H. Clifford.
Springfield, Illinois.....	29.75	755 6	30.48	774.2	20	— 6.7	81	e.	12	5.4	.....	.....	10 s	.....	e.	0	0	cloudy.....	T. B. Jennings.
Springfield, Missouri.....	28.83	732.3	30.34	770.6	30	— 1.1	82	se.	10	4.5	.....	.....	10 s	.....	.....	0.02	0.5	cloudy.....	J. H. Bryce.
Starkville, Miss.....	29.81	757.2	30.31	769.9	44	6.7	95	e.	.....	.....	.....	.....	fg:	.....	.....	0.34	8.6	dense fog ...	C. Dill.
Stevenson, Fort, Dakota.....	27.83	706.9	29.85	758.2	—18	—27.8	100	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Stockton, Fort, Texas	27.04	686.8	30.16	766.1	40	4.4	82	sw.	5	2.2	.....	2 c	0	.....	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass.....	30.62	777.7	30.68	779.3	13.0	—10.6	70	nw.	31	13.9	.....	0	0	.....	.....	0	0	clear.....	G. Liebmann.
Thomas, Camp, Arizona.....	27.26	692.4	30.09	764.3	46	7.8	96	calm	.....	.....	0	.....	10 n	.....	.....	0.15	3.8	light rain ...	J. T. Fitzgerald.
Toledo, Ohio.....	29.86	758.4	30.60	777 2	7	—13.9	100	n	2	0.9	.....	6 c	8k	.....	.....	0	0	fair.....	A. Buell.
Tucson, Arizona.....	27.57	700.3	30.05	763.3	54	12.2	86	se.	2	0.9	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	J. L. Whiteside.
Umatilla, Oregon.....	30.08	764.0	30.46	773.7	—12	—24.4	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Daly.
Verde, Fort, Arizona.....	.....	.....	.....	.....	37.6	3.1	72	sw.	.....	.....	.....	.....	10 s	.....	s.	0	0	cloudy.....	O. L. Pease.
Vicksburg, Mississippi	30.01	762.2	30.28	769.1	48.9	9.4	93	e.	2	0.9	.....	.....	10 s	.....	.....	Inap.	Inap.	cloudy.....	James Keneally.
Visalia, California.....	29.71	754.6	30.09	764.3	31.2	—0.4	87	se.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	O. D. Stewart
Washakie, Fort, Wyoming..	24.26	616.2	30.02	762.5	—24.2	—31.2	.....	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.....	30.51	774.9	30.63	778.0	30	— 1.1	73	n.	4	1.8	.....	5 c	0	sw.	.....	0	0	fair	B. M. Parsell.
West Las Animas, Colorado	25.94	658.9	30.07	763.8	15	— 9.4	83	nw.	7	3.1	.....	0	7 8	.....	.....	0	0	fair.....	F. H. Brandenburg
Williamsport, Pa.....	29.99	761.7	30.62	777.7	18	— 7.8	83	n.	2	0 9	.....	hz.	0	.....	.....	0	0	clear.....	B. F. Hough.
Wilmington, N. Carolina...	30.41	772.4	30.47	773.9	50	10.0	86	ne.	3	1.3	.....	.....	10 s	.....	n.	0	0	cloudy.....	Samuel A. Haney.
Winnemucca, Nevada.....	25.60	650.2	30.12	765.0	2.5	—16.4	76	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. H. Atfield.
Yuma, Arizona.....	29.85	758.2	30.00	762.0	47.0	8.3	61	se.	2	0.9	.....	0	9 8	.....	s.	0	0	cloudy.....	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia.....	22.04	559.8	.....	.....	55.0	12.8	67	n.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I....	30.09	764.3	30.10	764.5	70	21.1	84	n.	1	0.4	.....	.....	1 8	.....	.....	0	0	clear.....	Robert Johnston.
Paramaribo, S. A.....	30.04	763.0	30.04	763.0	78	25.6	86	e.	.....	.....	3	5 ck	5 k	e.	e.	0	0	fair.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.31	744.5	29.86	758.4	84	28.9	76	calm	.....	.....	0	7 ck	2 8	calm	calm	0	0	cloudy.....	Francisco J. Cisneros.
Rivas, Nicaragua, C. A....	.....	.....	.....	.....	76	24.4	.....	ne.	.....	.....	4	0	1 ks	.....	ne.	0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.51	774.9	30.57	776.5	31	— 0.6	78	nw.	.....	.....	4	4 c	0	.....	.....	0	0	clear.....	W. J. Fisher.
St. Thomas, W. I.....	30.08	764.0	30.21	767.3	74	23.3	82	e.	.....	.....	.....	1 k	4 kn	e.	e.	0.13	3.3	fair.....	Aug. Walloe.
Havana, Cuba.....	30.09	764.3	30.16	766.1	69.9	21.1	90	e.	5	2.2	.....	0	1 k	.....	se.	0	0	clear	Benito Vines, S. J.
York Factory, B. A.....	30.01	762.2	30.08	764.0	—25.0	—31.7	.....	w.	10	4.5	.....	c 2	1 8	w.	w.	0.01	0.3	fair.....	Fortesque & Wood.

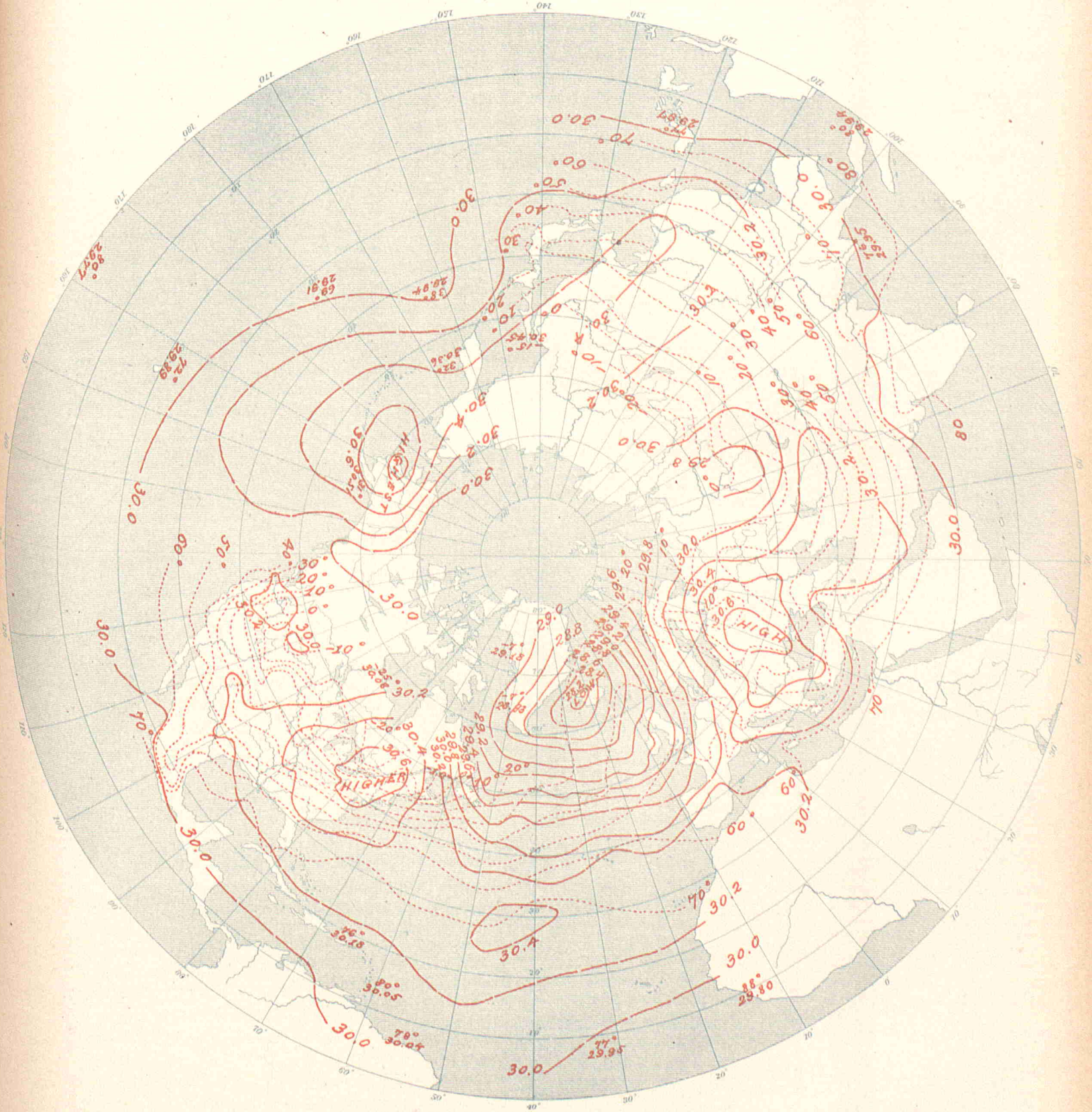
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell. Character.	Sea-swell. Direction from	Weather.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Agincourt, N. 44° 46′, W. 9° 21′.....	29.60	751.8	53.5	11.9	.....	sw.	.....	.....	5–6	.....	7	ssw.	.....	.....	.....	8	var.	squally.
H. M. Dock-Yard, Bermuda, W. I.....	30.33	770.4	67.5	19.7	94	ssw.	.....	.....	2–3	.....	5	ssw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Fawn, N. 9° 50′, W. 29° 33′.....	29.96	761.0	75	23.9	90	nne.	.....	.....	4	.....	8	nne.	.....	.....	.....	3	n.	d. clouds.
H. M. S. Iron Duke, N. 37° 21′ E. 5° 40′.....	30.18	766.6	57	13.9	75	nnw.	.....	.....	4–5	.....	5	nw.	.....	.....	.....	4	nnw.	d. clouds.
H. M. S. Monarch Port Said, Egypt.....	30.07	763.8	72	22.2	67	nnw.	.....	.....	1–2	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Minotaur, N. 44° 40′, W. 9° 30′.....	29.50	749.3	55.5	13.1	90	ssw.	.....	.....	6	.....	7	wsw.	.....	.....	.....	8	wsw.	misty.
H. M. S. Tyne, N. 7° 53′, W. 13° 57′.....	29.94	760.5	80	26.7	82	n.	.....	.....	2	.....	1	.....	.....	.....	.....	1	n.	misty.
U. S. Navy Yard, Portsmouth, N. H*.....	30.54	775.7	9	—12.8	7	nw.	11	4.9	.....	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Alliance, Cabanas, Cuba, W. I.....	30.17	766.3	74	23.3	95	e.	.....	.....	1	.....	2	.....	.....	0	0	sm'h	.....	clear.
U. S. S. Enterprise, Porta Praya, Cape Verd Islands*.	30.09	764.3	74	23.3	68	nne.	.....	.....	3	.....	8	.....	e.	.....	.....	sm'h	.....	cloudy.
U. S. S. Jamestown, N. 12° 40′ W. 58° 18′.....	30.07	763.8	76	24.4	86	e.	.....	.....	5	.....	2	.....	e.	.....	.....	sm'h	e.	fair.
U. S. S. Kearsarge, Savanilla, U. S. C.....	29.82	757.4	76	24.4	85	ne.	.....	.....	5	.....	5	.....	ne.	.....	.....	.....	.....	fair.
U. S. S. Lancaster, N. 42° 07′, W. 9° 33′.....	29.76	755.9	56	13.3	?	wsw.	.....	.....	7	.....	10	.....	sw.	.....	.....	h'vy	sw.	heavy rain.
U. S. S. Nipsic, N. 22° 50′, W. 51° 20′.....	30.37	771.4	76	24.4	64	ene.	.....	.....	4	.....	10	.....	.....	.....	.....	long	e.	cloudy.
U. S. S. Quinnebaug, N. 36° 10′, W. 4° 15′.....	30.32	770.1	59	15.0	70	wnw.	.....	.....	2	.....	10	.....	nw.	.....	.....	sm'h	.....	
U. S. S. St. Louis, League Island, Pa.....	30.69	779.5	23	— 5.0	73	n.	12	5.4	.....	.....	5?	.....	nnw.	0	0	.....	.....	clear?
U. S. S. Tennessee, St. Croix, W. I*.....	30.15	765.8	80	26.7	78	ene.	9	4.0	.....	.....	2	.....	.....	0	0	.....	.....	fair.
U. S. S. Vandalia, Port au Prince, Hayti, W. I*.....	30.10	764.5	73	22.8	71	e.	.....	.....	2	.....	1	.....	calm	.....	.....	.....	.....	clear.
U. S. S. Vantic, 21° 40′, W. 90° 41′.....	30.19	766.8	76	24.4	95	e.	.....	.....	3	.....	2	.....	.....	.....	.....	sm'h	.....	clear.
S. S. British Crown, N. 46° 36′, W. 31° 37′†.....	29.53	750.0	38	3.3	.....	w.	.....	.....	7	.....	7	.....	w.	4 h'r	4 h'r	h'vy	w.	squally.
S. S. British Prince, N. 44° 27′, W. 44° 48′†.....	29.95	760.7	34	1.1	.....	nw.	.....	.....	8	.....	6	.....	nw.	3 h'r	3 h'r	high	wnw.	snow-squalls
S. S. Illinois, Philadelphia, Pa.....	30.51	774.9	26	— 3.3	88	w.	.....	.....	3	.....	1	.....	nw.	.....	.....	.....	.....	clear.
S. S. Indiana, N. 44° 30′, W. 43° 38′.....	.....	.....	40	4.4	73	nw.	.....	.....	6	.....	2	.....	nw.	0	0	r'gh	nw.	fine.
S. S. Lord Gough, N. 39° 14′, W. 71° 16′.....	30.47	773.9	34	1.1	.....	nnw.	.....	.....	4	.....	5?	.....	nnw.	0	0	sm'h	.....	cloudy?
S. S. Ohio, N. 50° 56′ W. 20° 32′†.....	29.07	738.4	45	7.2	92	w.	.....	.....	7	.....	7	.....	w.	.....	.....	h'vy	w.	squally.
S. S. Circassian, N. 45° 30′, W. 51° 00′ *.....	29.76	755.9	26	— 3.3	.....	wnw.	.....	.....	6	.....	9	.....	nw.	7 h'r	7 h'r	6	w.	snowing.
S. S. Nova Scotian, N. 55° 06′ W. 11° 36.....	29.10	739.1	45	7.2	.....	wsw.	.....	.....	4	.....	10	.....	w.	.....	.....	con.	w.	squally.
S. S. Manitoban, N. 46° 50′, W. 45° 30′.....	29.76	755.9	27	— 2.8	.....	sw.	.....	.....	3	.....	8	.....	sw.;nw	2 h'r	2 h'r	cross	var.	cloudy.
S. S. Scandinavian, N. 50° 37′, W. 31° 49′.....	29.30	744.2	31	— 0.6	.....	w.	.....	.....	9	.....	8	.....	w.	snow	snow	high	w.	snowing.
S. S. Stella, N. 43° 42′, W. 45° 50′.....	29.88	759.0	39.2	4	.....	wnw.	.....	.....	6	.....	7	.....	nw.	8 h'r	8 h'r	5	nw.	
S. S. Ailsa, N. 10° 00′ W. 83° 03′†.....	30.04	763.0	81	27.2	96	ene.	.....	.....	3	.....	10	.....	ene.	12 h'r	12 h'r	sm'h	ene.	overcast.
S. S. Anchoria, N. 49° 14′, W. 37° 58′†.....	29.46	748.3	.....	.....	.....	w.	.....	.....	8	.....	8	.....	w.	snow	snow	h'vy	wnw.	snow-squalls
S. S. Assyria, N. 32° 56′, W. 28° 28′.....	30.38	771.6	69	20.6	100	wsw.	.....	.....	4	.....	10	.....	wsw.	.....	.....	mod.	w.	overcast.
S. S. Bolivia, New York, N. Y.....	30.67	779.0	23	— 5.0	.....	ese.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Dorian, N. 41° 48′, W. 57° 50′.....	30.11	764.8	43	6.1	.....	wnw.	.....	.....	7	.....	8	.....	nw.	snow	snow	r'gh	w.	snow.sho'rs.
S. S. Pavonia, N. 47° 48′, W. 38° 25′.....	29.48	748.8	35	1.7	70	w.	.....	.....	8	.....	6	.....	w.	10 h'r	10 h'r	h'vy	wnw.	squally.
S. S. Colina, Glasgow, Scotland†.....	29.24	742.7	.....	.....	.....	wsw.	.....	.....	4	.....	2	.....	wsw.	0	0	.....	.....	clear.
S. S. Labradore, N. 40° 46′, W. 71° 15′.....	.....	.....	21.2	— 6	.....	nw.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Pereire, N. 49° 53′, W. 30° 40′†.....	29.42	747.3	35.6	2.0	.....	w.	.....	.....	7	.....	10	.....	w.	snow	snow	h'vy	w.	sprinkling.
S. S. Ville de Marseilles, Vera Cruz, Mexico.....	.....	.....	71	21.7	.....	n.	.....	.....	2	.....	9	.....	n.	0	0	.....	.....	covered.
S. S. Abyssinia, N. 49° 00′, W. 32° 00′.....	29.41	747.0	49	9.4	93	w.	.....	.....	7	.....	8	.....	w.	3 h'r	3 h'r	r'gh	wnw.	squally.
S. S. Wyoming, Liverpool, Eng.....	29.27	743.4	44	6.7	.....	sw.	.....	.....	6	.....	5	.....	ssw.	0	0	long	sw.	threat'ning.
S. S. Bohemia, N. 48° 46′, W. 22° 30′†.....	29.32	744.7	.....	.....	.....	wnw	.....	.....	7–9	.....	7 k	.....	wnw.	6 h'r	6 h'r	h'vy	wnw.	hail & snow.
S. S. Silesia, N. 49° 05′, W. 35° 54′†.....	29 45	748.0	.....	.....	.....	w.	.....	.....	7–8	.....	3	.....	.....	4 h'r	4 h'r	7–8	wnw.	squally
S. S. Bulgarian, N. 49° 25′, W. 52° 39′ *.....	29.46	748.3	.....	.....	.....	wnw.	.....	.....	8	.....	10	.....	wnw.	8 h'r	8 h'r	high	wnw.	
S. S. Virginian, N. 47° 02′, W. 39° 40′ *.....	29.73	755.1	35	1.7	.....	wnw.	.....	.....	8	.....	8	.....	wnw.	5 h'r	5 h'r	h'vy	cross	squally.
S. S. Archimedes, N. 11° 06′ W. 27° 45.....	29.97	761.2	.....	.....	.....	ne.	.....	.....	5	.....	2	.....	ne.	0	0	mod.	ne.	light haze.
S. S. Colorado, N. 27° 30′ W. 89° 06′ †.....	30.28	769.1	71	21.7	.....	e.	.....	.....	2	.....	1	.....	e.	0	0	small	n.	clear.
S. S. Chalmette, New York, N. Y †.....	30.55	776.0	25	— 3.9	.....	n.	.....	.....	2	.....	0	.....	.....	0	0	mod	.....	clear.
S. S. New York, N. 31° 35′, W. 80° 10′ †.....	30.41	772.4	60	15.6	.....	nne.	.....	.....	3	.....	10	.....	e.	0	0	mod.	e.	cloudy.
S. S. Hermod, N. 47° 12′, W. 23° 05′ †.....	29.52	749.8	46.4	8	.....	w.	.....	.....	9	.....	9	.....	w.	6 h'r	6 h'r	high	wnw.	squally.
S. S. Alleghany, N. 38° 10′, W. 74° 50′ †.....	30.68	779 3	32	0.0	.....	nne.	.....	.....	5	.....	2	.....	e.	0	0	light	e.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Archimede, N. 33° 40′, W. 27° 21′†	30.32	770.1	70	21.1		wsw.			4		6		w.	0	0	long	wnw.	cloudy.
S. S. Picqua, N. 36° 53′, W. 28° 15′			66	18.9		wnw.			3		3		wnw.	0	0	long	sw.	fair.
S. S. City of Merida, N. 33° 50′, W. 77° 06′†	30.45	773.4				n.			4		10		nw.	0	0	mod.	se.	fine.
S. S. City of Washington, N. 18° 46′, W. 92° 38′†	30.18	766.6	80	26.7		e.			2		5		e.	0	0	sm'h		fine.
S. S. Santiago, Cienfuegos, Cuba, W. I.	30.15	765.8	74	23.3		n n e.			1		0			1 h'r	1 h'r			fine.
S. S. Egypt, N. 42° 17′, W. 49° 54′*	29.87	758.7	32	0.0		w.			2		10		nw.	0	0	mod.	nw.	cloudy.
S. S. England, N. 51° 07′, W. 20° 31′	29.07	738.4				w s w.			5		10		w s w.	sq'lls	sq lls	h'vy	w.	squally.
S. S. The Queen, N. 49° 33′, W. 18° 40′			41	5.0		w.			6		10		w.	rain	rain	long	w.	squally.
S. S. America, N. 46° 24′, W. 33° 21′*	29.67	753.6	40.0	4.4	91	wnw.			6		8		wnw.	2 h'r	2 h'r	h'vy	wnw.	squally.
S. S. Braunschweig, N. 21° 50′, W. 23° 09′	30.23	767.8	75.0	23.9	86	nne.			4		2		nne.	0	0	cross	ne.	fair.
S. S. Donau, N. 49° 00′, W. 25° 02′	29.42	747.3				w.			4		8		w.	6 h'r	6 h'r	h'vy	w.	squally.
S. S. Hermann, N. 41° 35′, W. 58° 28′	30.13	765.3	41.9	5.5	70	wnw.			7		10		wnw.	0	0	6	wnw.	covered.
S. S. Muriel, N. 20° 40′, W. 63° 52′*	30.19	766.8	76	24.4		e.			5		0					r'gh	e.	clear.
S. S. Belgenland, N. 46° 27′, W. 38° 00′*†	29.68	753.9	38	3.3	90	w.			9		8		wnw.	2 h'r	2 h'r	h'vy	wnw.	squally.
S. S. Nederlaud, N. 49° 20′, W 2 8° 10′			36	2.2	80	w.			6		5?		w.	6 h'r	6 h'r	r'gh	w.	cloudy?
S. S. Rhynland, Antwerp Belgium	29.93	760.2	45	7.2	84	sw.			6		8		sw.	0	0			cloudy.
S. S. Pennland, Antwerp, Belgium	29.91	759.7	45	7.2	92	se.			5		10		sw.	22 h'r	22 h'r			raining.
S. S. Waesland, N. 40° 29′, W. 68° 18′	30.51	775.4	30	— 1.1		n n w.			5		4		n w.	0	0	mod.	n w.	fair.
S. S. Zeeland, Antwerp, Belgium			55	12.8		s.			3		5?		s.	2 h'r	2 h'r	sm'h		clear?
S. S. P. Caland, N. 48° 40′, W. 29° 32′	29.51	749.5	40.6	4.8	93	wnw.			7		9		w.			6	w.	squally.
S. S. Caracas, N. 30° 31′, W. 70° 32′†.	30.42	772 7	72	22.2	85	sw.			3		2			0	0	mod.	se.	fair.
S. S. Claudius, N. 14° 20′ W. 83° 08′†	30.11	764.8	78.0	25.6	95	ne.			3		3		ne.	hv'y	hv'y	short	ne.	rainy.
S. S. Valencia, Curacao, Venezuela†	30.09	764.3	80	26.7	78	ene.			3		3		e.	0	0			fine.
S. S. State of Indiana, N. 41° 42′, W. 61° 15′*†	30.25	768.3	30	— 1.1		w n w.			8		6		w n w.	2 h'r	2 h'r	r'gh	w.	squally.
S. S. Romano, N. 46° 18′, W. 19° 37′*	29.56	750.8	46	7.8		w.			8		5		w n w.	4 h'r	4 h'r	h'vy	w.	fair.
S. S. Salerno, Hull, Eng†	29.35	745.5	45	7.2		s w.			4		10		s w.	3 h'r	3 h'r	rg'h	se.	foggy.
S. S. Brooklyn, N 45° 50′ W. 46° 49′			29	— 1.7		s w.			6				w.	3 h'r	3 h'r	h'vy	wnw.	clear
S. S. Surrey, N. 45° 31′, W. 49° 10′ †	29.68	753.9	24	— 4.4		s w			8		8		w.	3 h'r	3 h'r	mod.	w.	heavy snow
S. S. Olbers, N. 50° 03′, W. 6° 00′ *†	29.25	742 9	50	10.0		s s w.			6		7		s s w.	4 h'r	4 h'r	cross	var.	showery.
S. S. Plantyn, N. 50° 06′, W. 30° 01′									8		5		n w.	9 h'r	9 h'r	cross	w.	
S. S. Catherine Whiting, Philadelphia, Pa†	30.71	780.0	70	21.1		ne.			1		0			0	0			clear.
S. S. Norman, N. 42° 23′, W. 71° 05′*†	30.55	776.0				n.			1		0			0	0			clear.
S. S. Saxon, Philadelphia, Pa†	30.64	778.2				n.			2		2							fine.
S. S. Baltic, off Mine Head, Ireland*	29.24	742.7	48	8.9	78	w s w.			4		10		w.	sh'rs	sh'rs		sw.	d, clouds
S. S. Celtic, N. 51° 19′, W. 13° 47′†	29.24	742.7	46	7.8		s.			3		2		w.	9 h'r	9 h'r	h'vy	w.	fair.
S. S. Iowa, N. 42° 11′, W. 63° 26′*†	30.36	771.1	28	— 2.2		w n w.			5		7		w n w.	1 h'r	1 h'r	long	w n w.	fair.
S. S. Chamois, N. 32° 57′, W. 23° 19′	30.34	770.6	63.5	17.5	70	w s w.			5		8							showery.
Bk. Commewyne, N. 47° 42′, W. 12° 52′*	29.25	742.9	49.2	9.6	72	s w.			6		10							overcast.
S. S. City of Agra, N. 11° 34′, W. 41° 00′	30.07	763.8	77.5	25.3	93	n e.			6		9							misty.
S. S. Antonio Lopez, N. 19° 40′, W. 61° 34′	30.17	768.8	76	24.4	86	e.			4		2			0	0	r'gh	e.	clear.
Schr. Abbie H. Gheen, Hampton Roads, Va†	30.67	779.0	38	3.3		n e.			2									cloudy.
Bg. Abbie Clifford, Cardenas, Cuba, W. I†	30.22	767.6	74	23.3		e n e.			3		2		var.	rain	rain			
Bk. Aquidneck, N. 36° 09′, W. 57° 41′*†	30.30	769.6				w.			2				w.	0	0	light	w.	hazy.
Bg. Alcira, Maracaybo, Venezuela, S. A.	29.98	761.5	84	28.9		e n e.			2		5?		n e.	0	0			clear.?
Schr. Annie A. Holton, Tampico, Mexico†	30.13	765.3	71	21.7		s w.			1		10		s w.	0	0	sm'h		foggy.
Schr. Annie R. Lewis, St Pierre, Martinique, W.I†	30.17	766.3	80	26.7		e.			1		2		e n e.	14 h'r	14 h'r			clear.
Schr. Annie Thorman, N. 6° 14′, W. 32° 18′ *	30.00	763.4	77.2	25.1	76	n n e.			5		9 k		n n e.	2 h'r	2 h'r	r'gh	n n e.	misty.
Bk. Aureola, Swansea, Wales			49	9.4		s s e.			3		9		s w.	5 h'r	5 h'r			cloudy.
Bk. Achille F., N. 50° —′, W. 17° —′†	29.08	738.6	43.5	6.4	79	w s w.			0		5		w s w.	2 h'r	2 h'r	h'vy	w.	
S. Armenia, N. 22° 40′ W. 37° 30′*	30.25	768.3	70	21.1	80	e n e.			5		9		e n e.			cross	var.	drizzling.
S. S. Burswell, Dulas Roads, Wales*†	29.16	740.7				s w.			5		7		s w.	7 h'r	7 h'r	sm'h		threatening.
Bk. Bremen, N. 35° 11′, W. 73° 56′*	30.33	770.4				n e.			6		10		n e.	6 h'r	6 h'r	cross	var.	cloudy.
S. S. Benledi, N. 43° 30′, W. 35° 30′ *	29.83	757.7	48	8.9	74	w.			5–6		6		w.	shr's	sh'rs	h'vy	w n w.	hailing.
Bkt. Bonny Doon, N. 33° 05′, W. 71° 00′*†	30.26	768.6				n w.			0		2		n.	0	0	long	sw.	hazy.
Bk. Bare, N. 22° 21′, W. 33° 37′			74	23.3		e.			5		9		e.	0	0	long	cross	cloudy.
Bk. Pilgrim, N. 34° 40′, W. 47° 50′*†	30.30	769.6				n w.			5		9		n w.	4 h'r	4 h'r	long	n w.	cloudy.
Bk. Champion, N. 43° 33′, W. 39° 07′†.	29.78	756.4	48	8.9		w n w.			6		10		w.	16 h'r	16 h'r	cross	var.	cloudy.
Bkt. C. S. Bushnell, N. 36° 30′, W. 9° 15′	30.33	770.4				w s w.			2		8		s w.	0	0	h'vy	n w.	fine.
S. Cornelius, N. 58° 31′, W. 23° 26′*†	28.48	723.4	36.5	2.5		w s w.			6		8		s s w.	8 h'r	8 h'r	hv'y	w s w.	squally.
Bk. Commerce, Cadiz, Spain†	30.21	767.3	61	10.1		calm			0		0			0	0			fine.
Bk. Ceres, N. 14° 35′ W., 29° 09′ *	30.13	765.3	70.7	21.5	80	ne.			0		0		c; w.	0	0	r'gh	ne.	hazy.
Bk. Chas. Stewart, N. 30° 20′, W. 41° 30′†	30.50	770.2	74	23.3		n w.			3		5		n w.	0	0	mod.	n w.	
Schr. Edith R. Seward, Palenque, Hayti, W. I†	30.17	766.3	80	26.7		ne.			2		3		ene.	0	0	r'gh	e.	clear.
S. E. J. Spicer, N. 41° 00′, W. 25° 00′	30.05	763.3	56	13.3	87	n w.			7		7		w n w.	10 h'r	10 h'r	high	n w.	showery
Schr. F. E. McDonald, Jacksonville, Fla†	30.40	772.1	68	20.0		n e.			1					0	0			
S. S Foscolio, Gravesend, Eng†	29.60	751.8				w s w.			8		10		w s w.	7 h'r	7 h'r			raining.
S. Festina Lente, N. 57° 37′, W. 21° 53′	28.63	727.2	35	1.7		s w.			9		9		s w.	8 h'r	8 h'r	h'vy	w.	threatening.
Bk. Grey Eagle, N. 27° 17′, W. 69° 00′*†	30.10	764.5				s e.			5		5?		e.	0	0	light	se.	clear.?
Bg. Gipsy Queen, Ponce, Porto Rico, W. I*†	30.10	764.5	79	26.1		e n e.			6				e n e.					fair.
Bk. George, N. 31° 35′, W. 71° 50′*†	30.42	772.7				s w.			4		10		w s w.	sh'rs	sh'rs	sm'h		cloudy.
Bk. Galeon, Cardiff Roads, Eng						s s e.			1		10							
Bk. Henrich & Tonto, N. 34° 20′, W. 73° 08′†	30.31	769.9	62	16.7		n.			6		10		n.	5 h'r	5 h'r	mod.	n.	cloudy.
Schr. Hattie Weston, Mayaro, Trinidad, W. I *†	30.10	764.5	80	26.7		e.			3		8		e n e.	0	0	mod	e.	cloudy.
Bk. Hattie G. McFarland, Pascagoula, Miss*†	30.34	770.6	64	17.8		e.			1		3		e.	0	0			clear.
Bk. Horace Scudder, N. 25° 50′, W. 44° 16′ *†.	30.45	773.4	71	21.7		e n e.			4		8		n e.	0	0	long	e.	cloudy.
Schr. Isabel Alberto, N. 36° 55′, W. 75° 07′ †	30.42	772.7				n n e.			5		8		s w.	sh'rs	sh'rs	mod.	n	cloudy.
S. S. J. W. Wilson, Brazos, Santiago, Texas* †	30.09	764.3	64	17.8		s e.			1		fg.			0	0			foggy.
Bk. Johanne, N. 39° 31′, W. 73° 30′ *†	30.50	774.7	42	5.6		n n e.			6		8		n.	0	0	cross	ne.	misty.
Schr. John L. Thomas, N. 21° 05′, W. 84° 57′*†	30.20	767.1				e n e			4		1		e n e.	0	0	h'vy	e.	clear.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe*†	30.24	768.1				e.			2		3		e s e.	2 h'r	2 h'r			sprinkling.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3				s e.			1		2		e.	0	0			fine.
Bk. Mary A. Troop, Sharpness Point, Eng*†	29.30	744.2				s.			4		10		s s w.	20 h'r	20 h'r			raining.
Schr. Minnie A. Bonsall, Mayport, Fla†	30.47	773.9	67	19.4		n e.			1				n e.	0	0			fair.
Bk. Matilda C. Smith, Near Start Point, Eng†	29.36	745.7				s s w.			4		8		s.	15 h'r	15 h'r	long		threatening.
Bgt. Myrtle, St. Thomas, W. I						e n e.			5		2?		e n e.	4 h'r	4 h'r			cloudy.?
S. M. P. Grace, N. 22° 23′, W. 41° 48′ *..	30.20	767.1	71	21.7		e n e.			0		5		e n e.	sli't	sli't	r'gh	e n e.	squally.
S. S. Mendoza, N. 38° 00′, W. 68° 10′*†	30.45	773.4				n n e.			4		7		n e.	0	0	mod.		cloudy.
Bkt. Norena, Matanzas, Cuba, W. I*†	30.29	769.4				calm			0		1		n e.	½ h'r	½ h'r			fine.
Schr. Ocean Traveler, Santa Cruz Island, W. I†	30.12	765.0				e n e.			0		5							squally.
Bk. Ottawa, Torrevieja Road, Spain*	30.17	766.3	58	14.4		n w.			2		8		n w.	0	0			cloudy.
Schr. Pearl Nelson, N. 27° 40′, W. 74° —′*†	30.18	766.6				e.			5					0	0			fine.
Bk. Reindeer, N. 14° 05′, W. 61° 12′*.	30.06	763.5				e n e.			6				e n e.					squally.
S. Rudolph, N. 30° 14′, W. 32° 51′			75.0	23.9		calm			0		3		n w.	0	0	mod.	w n w	fair
Bk. Saga, N. 47° 14′, W. 19° 42′			48	8.9		w.			8		10		w n w.	21 h'r	21 h'r	9	w n w.	hailing
Bk. Sunbeam, N. 37° 55′, W. 16° 47′	30.10	764.5	60	15.6	94	w n w.			8		10		n w.	2 h'r	2 h'r	mod.	w n w.	cloudy.
Bk. Send, off Grenada Island, W. I*†	30.07	763.8				e n e.			6		8		e.	2 h'r	2 h'r	short	n e.	rainy.
Schr. S. B. Hubbard, N. 31° 15′, W. 79° 33′*†	30.49	774.4				e.			5				n e.	rain	rain	high	n e.	stormy.
Bk. Usko, N. 48° 49′, W. 10° 33′*†	29.24	742.7				s w.			5		4?		s w.	4 h'r	4 h'r	h'vy	w s w.	cloudy.?
S. Vincenzo Accame, N. 37° 50′, W. 62° 50′*†	30.35	771.0	59.0	15		n n w.			5		10		n n w.	4½ hr	4½ h'r	r'gh	n n w.	rainy.
Schr. Wm. Wiler, Pointe a Pitre, Guadeloupe, W. I.†	30.08	764.0				e.			1		2		e.	0	0			fine.
S. Wm. Woodbury, N. 63° 22′, W 6° 35′			45	7.2		s.			6		4?		s w.			high	s.	covered.?
S. S. Ambrose, N. 5° 54′, W. 50° 54′†	30.08	764.0	79	26.1		e n e.			6		4		e n e.	1 h'r	1 h'r	6	e n e.	fine.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2—South Atlantic.																		
H. M. S. Heroine, Montevideo, Uruguay	29.88	758.9	72	22.2	100	ene.			1		1	s.				sm'h		d. clouds.
H. M. S. Starling, S. 4° 53′, E. 0° 37′	29.96	761.0	80	26.7	86	sse.			2		1					2	sse.	blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.92	760.0	71	21.7	90	ne.	9	4.0			0			0	0			clear.
U. S. S. Galena, Montevideo, Uruguay*	29.92	760.0	70	21.1	84	e.			2		8		ne.			sm'h		fair.
S. S. Grecian, S. 29° 30′, W. 47° 00′*	29.79	756.7	76	24.4	86	ese.			2		9		ese.	0	0	sm'h		cloudy.
S. S. Hevelius, Buenos Ayres, La Plata†	29.98	761.5	74	23.3		ne.			6		4?		n.	0	0			clear.
S. S. Ptolemy, S. 7° 58′, W. 34° 38′	30.02	762.5	82.2	27.9	81	ese.			3	0	4 ks;n			0	0	3	ne.	d. clouds.
S. S. Auckland, S. 5° 31′, W. 23° 54′	30.02	762.5	80	26.7	74	ese.			4		5							blue sky.
S. S. May Hulse, S. 50° 47′, W. 65° 05′	29.14	740.1	53	11.7	87	wnw.			6		10							overcast.
Bg. Annie R. Storer S. 5° 50′, W. 34° 20′*†	30.24	768.1				ese.			4		2		ese.	½h'r	½h'r	mod	ese.	fair.
Bk. Edmund Phinney, S. 50° 54′, W. 63° 58′ †	29.18	741.2	52	11.1		wsw.			5		10			0	0	r'gh	n.	threatening.
Bk. E. L. Pettingill, S. 34° 20′, W. 34° 00′ *†	30.20	767.1	68	20.0		ene.			2		8		n.	0	0	sm'h		
S. E. B. Sutton, S. 15° 00′ W. 34° 20′ †	30.10	764.5	82	27.8	75	ene.			3		2		ne.	0	0	sm'h	e.	clear.
S. Grecian, S. 8° 40′, W. 31° 44 †	30.07	763.8	82	27.8	91	ese.			5		3		se.	0	0	sm'h		clear.
S. Geo. Sietson, S. 53° —′, W. 61° —′ *†	29.90	759.4	49	9.4	93	sw.			6		4?		sw.	0	0	h'vy	sw.	cloudy ?
Bkt. Josephine, S. 35° 36′, E. 16° 26′†	30.02	762.5	72	22.2	71	nnw.			4		0			0	0	long	ssw.	clear.
S. Titan, S. 25° 45′, W. 42° 22′*†	29.90	759.4	80	26.7	91	n.			5		3		n.	0	0	mod.	n.	fair.
Bkt. Wandering Jew, Montevideo, Uruguay †	30.00	762.0	69	20.6		ne.			3		2		n.	0	0			clear.
S. Sacramento, S. 43° 58′, E 12° 22′*†	29.95	760.7	52	11.1	72	wsw.			6		5		sw.	driz.	driz.	mod.	sw.	fair.
District No. 3—North Pacific.																		
S. S. Mexico, N. 25° 16′, W. 112° 43′†	30.06	763.5	67	19.4	84	nnw.			1		8		nw.			mod.	w.	fair.
S. S. Arabic, N. 29° 25′ E. 130° 31′, *†	30.18	766.6	50	10.0	100	var.			1–2		5		ne.	sh'rs	sh'rs	sm'h		fine.
S. S. Belgic, N. 26° 00′, E. 121° 59′*†	30.17	766.3	60	15.6	76	nne.			4		5			2 h'r	2 h'r	r'gh	ne.	fair.
S. S. Gaelic, N 43° 04′, E. 166° 11′	29.94	760.5	38	3.3	90	sw.			5		4		sw.	0	0		sw.	fair.
S. S. Oceanic, N. 33° 00′, E. 178° 37′*	29.91	759.7	60	15.6	100	n.			3		4		n.			high	ne.	fair.
S. S Oregon, Portland, Oregon †	30.25	768.3	14	—10.0	100	calm			0		0							clear.
S. S. Mississippi, Seattle, Wash. Ter†	30.23	767.8	25	—3.9	88	calm			0		0							clear.
S. S. Willamette, Seattle, W. T †	30.23	767.8	24	—4.4	100	calm			0		0			0	0			clear.
S. S. Ancon, N. 34° 42′, W. 120° 42′†	30.04	763.0	43	6.1	83	ne.			3		2		n.			sm'h		fair.
S. S. City of Chester, Eureka, Cal*†	30.11	764.8	36	2.2	100	calm			0		10			0	0			overcast.
S. S. Dakota, Port Townsend, Wash. Ter*†	30.12	765.0	30	—1.1	100	ne.			3		2		n.	0	0	sm'h	nw.	clear.
S. S. G. W. Elder, San Francisco, Cal †	30.16	766.1	44	6.7	92	calm			0		5?					sm'h		overcast?
S. S. Queen of the Pacific, Portland, Oregon †	30.19	766.8				ese.			4		0							clear.
S. S. State of California, San Francisco, Cal†	30.14	765.5	41	5.0	82	se.			3		8		se.					cloudy.
S. S. City of Pekin, Hong Kong, China †	30.30	769.0	57	13.9	95	ene.			1		10							cloudy.
S. S. City of Tokio, N. 34° 08′, W. 151° 54′†	30.21	767.3	58	14.4	82	n.			4		2		ne.	light	light	small	e.	clear.
S. S. City of Rio de Janeiro, Panama, Panama			80	26.7	96	n.			1		1		n.	0	0	light	n.	fine.
S. S. Colima, N. 16° 28′, W. 99° 03′†	29.98	761.5	79	26.1	91	calm			0		2		se.	0	0	sm'h	sse.	clear.
S. S. Granada, Acapulco, Mexico†	29.93	760.2	77	25.0	77	calm			0		0			0	0			clear,
S. S. Zealandia, N. 0° 37′, W. 163° 59′	29.77	756.1	80	26.7	87	e.			2		10					mod.	e.	raining.
H. M. S. Curacoa, Yokohama, Japan			37.5	3.1	72	n.			1		3							d clouds.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.91	759.7	70	21.1		s.			1		10							thund'r st'm
U. S. Naval Hospital, Yokohama, Japan*	30.38	771.6	31.5	— 0.3	78	calm			0		0			0	0			clear.
U. S. S. Independence, Mare Island, Cal.	30.15	765.8	36	2.2	90	se.			1		10			0	0			cloudy.
U. S. S. Lackawanna, Honolulu, Sandwich Island*	29.89	759.2	72	22.2	85	ssw.			3		10							cloudy.
U. S. S. Monocacy, Amoy, China	30.26	768.6	56	13.3	75	ne.			1		10		ne.					cloudy.
U. S. S. Palos, Tientsin China*	30.29	769.4	32	0.0	79	sse.			1		10		calm					cloudy.
U. S. S. Ranger, N. 35° 23′, W. 121° 00′	30.18	766.6	56	10.0	79	nne.			2		10			0	0	sm'h		cloudy.
U. S. S. Richmond, Hong-Kong, China*	30.15	765.8	59	15.0	86	e.			1		10			0	0			cloudy.
U. S. S Wachusetts, Honolulu, Sandwich Ids	29.86	758.4	70	21.1	90	sse.			1		10		e.			sm'h		overcast.
S. S. Scotia, Singapore, Malay Peninsula	29.94	760.5	79.8	26.6	82	n.			2		10							overcast.
S. Henry Failing, N. 46° 20′, W. 125° 40′†	30.20	767.1	40	4.4		n.			2		2		s.	0	0	sm'h	se.	fine.
S. St. Francis, N. 27° 45′ W. 125° 38′†	30.18	766.6	60	15.6		ese.			6		9		ese.	10 h'r	10 h'r	short	ese.	rainy.
Tamega, Macao, China	30.25	768.4	55.8	13.2	79	n.			5		10			0	0			overcast.
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.89	759.2	69	20.6	95	sse.			2		6					2		foggy.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	30.20	767.1	72.3	22.4	90	calm			0		4					sm'h		d. clouds.
H. M. S. Liffey S. 29° 56′, W. 71° 20′	29.83	757.7	52	16.7		nne.			3							3	nne.	d. clouds.
H. M. S Rocket, S. 46° 10′, W. 75° 42′	29.64	752.8	58	14.4	100	wnw.			5		4	ssw.				5	wsw.	showery.
H. M. S. Swiftsure, S. 0° 28′, W. 99° 08′	29.90	759.4	74	23.3	100	calm			0		10	se.						overcast.
H. M. S. Sylvia, Anna Id, Patagonia	29.20	741.7	49.7	9.8	57	nw.			3–5		10							showery.
U. S. S. Essex, Callao, Peru	29.88	758.9	68	20.0	90	sse.			1		5		se.				s.	fair.
U. S. S. Iroquois, S. 27° 14′, W. 95° 47′	30.14	765.5	69	20.6	95	se.			3		8		se.			sm'h	s.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.00	762.0	66	18.9	94	sse.			2		10		n.					cloudy.
U. S. S. Pensacola, Callao, Peru*	29.82	757.4	67	19.4	100	se.			1		10			0	0			misty.
British Merchant, S. 17° 14′, W. 128° 08′	29.91	759.7	79.8	26.6	79	e.			4–5		5							squally.
Bk. Childwall, S. 6° 25′, W. 133° 04′ *	29.81	757.2	78	25.6		ese.			4		3		ese.	0	0	light	ese.	fine.
Bk. Gronsvaer, Auckland, N. Z †	30.17	766.3	76.6	24.4		var.			2		5		sw.	½h'r	½h'r			fair.
S. S. Australia, Sydney, N. S. W†	29.38	746.2	73	22.8	85	ne.			2		0			0	0			clear.
S. S. City of Sydney, Sydney, N. S. W †	29.81	757.2	78	25.6	65	w.			2		5		nw.	0	0			fair.
H. M. S. Gannet, S. 18° 00′, W. 75° 40′	29.87	758.7	74	23.3	86	calm			0		6					1	s.	showery
Bk. Warden Law, S. 23° 15′, W. 80° 00′*	30.26	768.6				se.			2		10		sse.	0	0	sm'h	sse.	covered.
S. Sovereign of the Seas, S. 48° 10′, W. 103° 12′ *†	29.60	751.8	55	12.8	100	wnw.			6		10		wnw.	4 h'r	4 h'r	r'gh	wnw.	heavy rain.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 2° 50′, E. 44° 30′	29.87	758.7	79	26.1		nne.			3–4		7		nne.			4	nne.	misty.
H. M. S. Eclipse, N. 26° 17′ E. 54° 11′	30.00	762.0	68	20.0		w.			2–3		2		wsw.			2	wsw.	d. clouds.
H. M. S. Euryalus, N. 13° 50′, E. 92° 30′	29.95	760.7	76	24.4	81	nne.			2		2		calm			1	sm'h	d. clouds.
H. M. S. Himalaya, N. 5° 30′, E. 96° 59′	29.92	760.0	84	28.9	83	ene.			2		4							d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.85	758.2	83	28.3		nne.			3		4	wnw.				2	nne.	d. clouds.
H. M. S. Woodlark, Bushire, Persia	30.12	765.0	62.5	16.9	51	nw.			4		2	nw.						d. clouds.
S. S. Galatia, Suez, Canal Egypt†	30.07	763.8	66	18.9	?	nnw.			4		7		nw.	0	0	mod	se.	cloudy.
Bk. Essex, S. 33° 04′, E 29° 45′ *†	29.99	761.7	75	23.9		se.			2		2		sse.	0	0	light	ssw.	fine.

International Chart I. February 10, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 11, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	30.34	770.7	57.9	14.4	76	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.24	768.0	59.7	15.4	60	w.	.....	.....	6	.....	6	.....	.....	0	0	cloudy	Thève.
La Calle	.....	.....	30.21	767.2	57.6	14.2	67	wnw.	.....	.....	2	.....	4	.....	.....	0	0	cloudy	Fonfrède.
Tunis	.....	.....	30.19	766.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.31	769.8	59.4	15.2	83	se.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Pérès.
Tebessa	.....	.....	30.25	768.3	51.1	10.6	65	nw.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Dognon.
Geriville	.....	.....	.....	.....	56.5	13.6	32	nnw.	.....	.....	2	.....	2	.....	.....	0	0	fair	Forfert.
Laghouat	.....	.....	30.30	769.7	60.8	16.0	40	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.28	769.1	65.8	18.8	36	nw.	.....	.....	2	.....	3	.....	.....	0	0	pretty fair	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.54	750.3	29.63	752.6	70.1	21.2	88	sse.	2	0.9	.....	.....	1	.....	.....	0	0	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.72	754.8	30.30	769.6	33.8	1.0	93	se.	.....	.....	1	.....	10	.....	.....	0.012	0.3	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.43	747.4	30.22	767.6	38.8	3.8	60	ene.	0	0	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbicki.
Eperies	29.43	747.5	30.36	771.1	34.2	1.2	75	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.93	734.9	30.20	767.1	35.2	1.8	69	se.	.....	.....	1	.....	10	.....	.....	0.197	5.0	.....	Andreas Rospini.
Hermannstadt	28.91	734.4	30.45	773.3	27.5	— 2.5	94	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.68	728.5	30.08	763.9	35.6	2.0	77	ene.	.....	.....	1	.....	4	.....	.....	0.177	4.5	al. clear	The Staff.
Lemberg	29.34	745.1	30.39	771.8	30.9	— 0.6	55	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.87	682.6	30.32	770.0	43.2	6.2	30	sw.	.....	.....	4	.....	0	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.14	765.6	30.26	768 5	49.6	9.8	76	se.	.....	.....	2	.....	10	.....	.....	0.280	7.1	.....	I. R. Hydrographic Office.
Szathmar	29.87	758.8	30.34	770.6	39.4	4.1	61	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	30.04	763.1	30.34	770.6	36.7	2.6	55	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.14	765.6	30.24	768.1	45.7	7.6	94	calm	.....	.....	0	.....	10	.....	.....	0.701	17.8	raining	Royal Academy.
Vienna	29.45	748.0	30.21	767.2	31.6	— 0.2	78	se.	.....	.....	3	.....	10	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.14	740.1	29.24	742.7	41.3	5.2	65	wsw.	11	4.9	.....	.....	7	.....	.....	0.200	5.1	d. clouds	W. Boswell
Armagh, Observatory	29.24	742.7	29.47	748.5	39.2	4.0	67	sw.	17	7.6	.....	.....	.....	.....	.....	.....	.....	.....	S. Oall.
Bidston, Liverpool Obs'y	.....	.....	29.49	749.0	42.6	5.9	81	w.	31	13.9	.....	.....	9	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	28.93	734.8	29.46	748.3	38.0	3.3	81	wsw.	24	10.7	.....	.....	6	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.20	5.1	.....	McLandsborough&Preston.
Bridgetown, Barbadoes	30.03	762.7	30.06	763.5	81.0	27.2	70	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C
Cardington	29.51	749.5	29.62	752.3	46.0	7.8	71	w.	.....	.....	3.0	.....	5	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E	29.56	750.8	29.69	754.1	44.5	6.9	74	sw.	.....	.....	1	.....	7	.....	.....	blank	blank	d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.54	750.3	29.77	756.1	45.4	7.4	54	wsw.	.....	.....	4	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.60	701.0	29.83	757.7	79.0	26.1	69	e.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	Corpl. F. Milner, A. H. C.
Freetown	29.63	752.6	29.86	758.4	87.0	30.6	91	e.	.....	.....	1	.....	5	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	29.40	746.7	29.44	747.8	37	2.8	90	sw.	.....	.....	3	.....	2	.....	.....	0.08	2.0	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.25	768.3	30.30	769.6	62.0	16.7	94	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.13	739.9	29.34	745.2	40.8	4.9	65	wsw.	.....	.....	4	.....	3 k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst
Greenwich, Royal Obs'y	29.50	749.3	29.67	753.6	46.3	7.9	60	wsw.	.....	.....	5	.....	6	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.54	750.3	29.84	757.9	46	7.8	76	wnw.	.....	.....	6	.....	10	.....	.....	.....	.....	showery	A. Collenette, F. M. S.
Kew, Observatory	29.04	752.8	29.68	753.9	45.4	7.4	59	sw.	23	10.3	.....	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.30	744.2	29.56	750.8	44.5	6.9	67	sw.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	30.10	764.5	30.17	766.3	56.8	13.8	80	e.	.....	.....	2	.....	9	.....	.....	0.02	0.5	overcast	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.19	766.8	30.23	767.8	73.5	23.1	90	se.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.02	737.1	29.54	750.3	44.8	7.1	63	sw.	.....	.....	6	.....	5	.....	.....	.....	.....	d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.42	747.3	29.64	752.8	43.0	6.1	77	sw.	.....	.....	6	.....	8	.....	.....	.....	.....	squally	The Staff.
Plymouth	29.67	753.6	29.75	755.6	44.5	6.9	88	wsw.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	29.07	738.4	29.17	740.9	40	4.4	89	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.26	768.6	30.33	770.4	28.2	— 2.1	94	n.	.....	.....	2	.....	10	.....	.....	.....	.....	snowing	W. H. Lyne.
Sheffield	29.17	740.9	29.45	748.0	44.6	7.0	71	sw.	.....	.....	4	.....	1	.....	.....	0.17	4.3	blue sky	W. F. Cooper.
Silloth Rectory	29.39	746.5	29.42	747.3	42.2	5.7	83	wsw.	.....	.....	3	.....	2	.....	.....	0.020	0.5	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.49	749.0	40.0	4.4	77	w.	21	9.4	.....	.....	10	.....	.....	blank	blank	overcast	Rev. S. J. Perry.
Stratfield Turgiss	29.50	749.3	29.72	754.9	45.1	7.3	67	w.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Rev. O. H. Griffiths, F. M. S.
Truro, Royal Institution	29.71	754.6	29.76	755.9	48	8.9	77	sw.	.....	.....	0	.....	5	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.47	748.5	29.49	749.0	43.6	6.4	93	s.	24	10.7	.....	.....	10	.....	.....	.....	.....	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.81	757.2	30.20	767.1	56.8	13.8	80	ne.	12.4	5.5	.....	0	7 c; n	.....	ne.	0	0	fair	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.42	772.7	30.47	773.9	0	—17.8	94	s.	8	3.6	.....	.....	10 n	.....	calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.34	770.6	30.41	772.4	— 9	—22.8	100	sw.	1	0.4	.....	.....	10 s	.....	sw.	0	0	cloudy	G. A Blair
Cornwall	29.81	757.2	30.03	762.7	— 2.8	—19.3	100	ne.	.....	.....	2	.....	10 n	.....	.....	0.100	2.5	overcast	Jas. Smith, M. A.
Dalhousie	30.30	769.6	30.36	771.1	20.5	— 6.4	.....	calm	.....	.....	0	0	0	.....	.....	0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.21	767.3	30.23	767.8	— 4	—20.0	79	nw.	18	8.0	.....	5 cs	5 k	w.	w.	inap.	inap.	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.80	731 5	29.75	755.6	—13	—25.0	47	w.	0	2.7	.....	0	0	.....	.....	0.02	0.5	clear	James Stewart
Fredericton	30.32	770.1	30.39	771.9	—11.4	—24.1	100	calm	0	0	.....	.....	10 n	.....	.....	0.010	0.3	snowing	Prof. Harrison, L. L. D.
Granton	26.72	729.5	29.80	756.9	19.4	— 7.0	94	s.	2	0.9	.....	.....	10 n	.....	.....	0.200	5.1	overcast	Jas. Grant.
Halifax, N. S*	30.30	771.1	30.51	774.9	2	—16.7	100	calm	0	0	.....	.....	fg	.....	.....	0	0	foggy	A. Allison.
Hamilton	29.42	747.3	29.82	757.4	22.9	— 5.1	86	sw.	.....	.....	1	10 cs	0	.....	.....	0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.57	751.1	29.94	760.5	8	—13.3	96	n.	0	2.7	.....	.....	10 s	.....	.....	0.13	3.3	cloudy	A. P. Knight, M. A
Montreal, Quebec*	29.87	758.7	30.10	764.5	— 2	—18.9	91	ne.	4	1.8	.....	.....	10 n	.....	.....	0.10	2.5	light snow	C. H. McLeod, C. E.
Ottawa	29.77	756.1	30.05	763.3	— 1.6	—16.9	91	ne.	.....	.....	2	.....	10 s	.....	.....	0.05	1.3	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.14	740.1	29.89	759.2	10	—12.2	76	se.	5	2.2	.....	.....	10 n	.....	se.	0.04	1.0	light snow	Rev. R. Mosley.
Peterboro	29.07	738.4	29.87	758.7	10.6	— 8.6	83	e.	.....	.....	1	.....	10 n	.....	.....	0	0	overcast	J. Dixon, B. A.
Port Dover, Ontario	29.14	740.1	29.88	758.9	20	— 6.7	100	calm	0	0	.....	.....	10 n	.....	.....	0.13	3.3	threatening	H. Morgan.
Port Stanley, Ontario	29.19	741.4	29.88	758.9	20	— 6.7	91	e.	2	0.9	.....	.....	10 n	.....	e.	0.06	1.5	cloudy	M. Payne.
Quebec, Quebec*	29.84	757.9	30.21	767.3	— 6	—21.1	100	ne.	.....	.....	5	.....	10 n	.....	.....	.....	.....	light snow	Capt. Ashe, R. N
Rockliffe, Ontario*	29.47	748.5	29.99	761.7	— 2	—18.9	79	se.	6	2.7	.....	.....	10 n	.....	.....	0	0	threatening	W. H. McIntyre.
Saugeen, Ontario*	29.08	738.6	29.84	757.9	17	— 8.3	87	se.	14	6.3	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	
St. Andrews, N. B	29.20	741.7	30.20	766.6	16	— 8.9	100	sw.	14	6.3	.....	.....	10 n	.....	.....	0.06	1.5	light snow	
St. John, N. B	30.18	766.0	30.36	771.1	5	—15.0	75	e.	5	2.2	.....	.....	10 n	.....	.....	0.120	3.0	light snow	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.36	771.1	7.5	—13.6	.....	nw.	.....	.....	.....	0	.....	.....	.....	0	0	.....	The Commandant
Stratford	28.51	724.1	29.88	758.9	17.2	— 8.2	92	se.	3	1.3	.....	.....	10 s	.....	.....	0.100	2.5	overcast	C. J. Macgregor, M. A.
Sydney, C. B*	30.47	773.9	30.54	775.7	— 8	—22.2	86	s.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.49	749.0	29.90	759.4	21	— 6.1	90	ne.	5	2.2	.....	.....	10 n	.....	.....	0.07	1.8	threatening	Magnetic Observatory.
Windsor	30.32	770.1	30.43	772.9	3.5	—15.8	87	calm	0	0	.....	.....	10 n	.....	.....	0	0	overcast	Prof. W. H. Butler, M. A
Woodstock	28.74	730.0	29.86	758.4	21.8	— 5.8	96	e.	6.0	2.7	.....	.....	10 s	.....	.....	0.05	1.3	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.31	769.9	30.36	771.6	11	—11.7	91	e.	5	2.2	.....	.....	10 n	.....	.....	0.13	3.3	cloudy	Lt. F. E. Wilmot, R.N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the last 24 hours. Inch.	Rainfall or melted snow in the last 24 hours. Mill.	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	29.99	761.7	30.02	762.5	76.0	24.4	79	sse.	4.6	2.1		0	2 8			0	0	hazy	**John Duthie.**
Springbok Fontein	27.86	707.6			86	30.0	36	se.											**J. T. Eustace.**
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.43	620.4			25.9	— 3.4		calm			0		0					light fog	
Tchang-kia-tchouang	30.24	768.0	30.35	770.8	28.9	— 1.7	100	sw.			1		10			0	0	covered	R. P. Desnarmont, S.J.
Zi-Ka-Wei, near Shanghai	30.36	771.1	30.38	771.7	33.4	0.8	94	ne.	0.7	0.3			10			0	0	foggy	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.73	755.2	29.78	756.4	34.5	1.4	85	sse.	20	9			7						Oversergent Fischer.
Fanoe	29.52	749.9	29.54	750.4	41.5	5.3	92	s.			6		9					raining	**Overloerer Lauridsen.**
Godthaab, Greenland	28.81	731.8	28.85	732.9	— 0.8	—18.2	100	nw.			6		10					snowing	S. Kleinschmidt.
Ivigtut, Greenland	28.68	728.4	28.70	728.9	10.6	—11.9		n.			6		10						
Jacobshavn, Greenland	28.86	733.0	28.91	734.2	— 1.5	—18.6		s.			2		8						
Stykkisholm, Iceland	28.75	730 2	28.79	731.3	30.4	— 0.9	94	calm			0		8						A. O. Thorlacius.
Thorshavn	29.06	738.2	29.10	739.1	39.2	4.0	92	sw.	22	10			10						Overloerer Bergh.
Vestervig	29.40	746.7	29.49	749.0	39.4	4.1	95	se.			7		10					raining	Loerer Oesterbol.
Upernavik, Greenland	28.91	734.3	28.96	735.5	— 5.1	—20.6		e.			2		10						
French.																			
Agen, Normal School	29.58	751.4	30.24	768.2	50.4	10.2	89	sse.			3		n			0	0		M. Labroue, Director.
Alençon, Normal School	29.40	746.7	29.95	760.8	44.6	7	91	sw.			1		ks	ne.	ne.	0	0		M. Nicot, Director.
Arras, Engineer School	29.57	751.0	29.83	757.7	41.9	5.5	92	w.			4		ks			0	0		M. Fénéon, Command't.
Avignon, Normal School	30.02	762.4	30.10	764.4	49.3	9.2	79	n.			1		5		sw.	0.35	9.	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.48	748.8	30.05	763.2	49.7	9.7	63	wnw.			2	0	8 kn		wnw.	0.003	1.6	very cloudy	M. Sallard, Director.
Beauvais, Normal School	29.65	753.2	29.93	760.1	46.0	7.8	70	w.			2		8		w.	0.520	13.2	very cloudy	M. Frère Eugène Marié
Besançon, Normal School	29.11	739.4	30.01	762.3	48.6	9.2	83	sw.			1		kn		ne.	0.35	9.		M. Gobin, Director.
Bordeaux, Observatory	29.93	760.3	30.20	767.0	51.4	10.8	58	w.			1		8			0.161	4.1	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.55	750.6	30.11	764.8	47.3	8.5	72	sw.			2	c	k		sw.	0.20	5.		M. Malet, Director.
Brest, Naval Observatory	29.65	753.2	29.89	759.3	46.0	7.8	85	sw.			3		10		sw.	4.09	104.		M. de Kermaïdo, Dir.
Caen, Normal School	29.91	759.8	29.99	761.7	47.8	8.8	73	e.			2		5		e.	0.319	8.1	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.58	751.4	29.91	759.6	48.7	9.3	71	w.			4		2		sw.	0.157	4.0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.39	746.5	29.91	759.7	45.5	7.5	69	wnw.			1		8			0.67	17.	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.76	730.6	30.16	766.0	42.8	6.0	79	wsw.			2		10			0.094	2.4	covered	M. Allnard, Director.
Cluny, Normal School	29.47	743.5	30.13	765.4	48.2	9	51	sw.			1		9		sw.	0.051	1.3		M. de Villemontée, Dir.
Commercy, Normal School	29.13	739.9	30.00	762.1	46.9	8.3	68	w.			3		2 ks	w.	w.	0.228	5.8	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.55	699.8	30.17	766.2	40.6	4.8	87	calm			0		10 n			0.957	24.3		M. Jeangirard, Director.
Grasque, du Rhone	28.95	735.3	30.10	764.4	49.1	9.5	92	se.			2		10		se.	0.244	6.2		M. Kina, Director.
Grenoble, Normal School	29.39	746.5	30.18	766.5	44.2	6.8	85	wnw.			1		10 n		n.			raining	M. Ablard, Director
Guéret	28.47	723.2	30.15	765.8	41.0	5	74	sw.			3		n		sw.	0.31	8.		**M. Delorme, Dir.**
Lamballe, Normal School	29.58	751.2	29.85	758.1	48.6	9.2	71	sw.			3		10		sw.	0.43	11.	covered	M. Ollivault, Director.
Lescar, Normal School	29.66	753 3	30.24	768.0	47.8	8.8	89	w.			1		8 kn			0.189	4.8	very cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.89	759.1	29.99	761.7	45.7	7.6	61	sw.			2		10			0.209	5.3	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.11	739.4	30.19	766.9	45.5	7.5	79	ese.			1		10 n		w.	0.091	2.3	light rain	M. André, Director.
Mans, Normal School	29.67	753.6	29.98	761.6	47.3	8.5	64	nw.			4		5		n.	0.264	6.7	cloudy	M. Piboën, Director.
Marseille, Observatory	29.81	757.1	30.08	764.0	55.6	13.1	86	se.			2		10		sse.	0.232	5.9	light rain	M. Stephan, Director.
Montlouis	24.87	631.6	29.71	754.6	42.1	5.6	48	sw.	9.4	4.2			0			0	0		**M. Caré for Dr. Fines.**
Montpellier, Normal School	29.99	761.8	30.12	765.1	55.0	12.8	66	nw.			4		5	sw.		0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.18	741.2	29.97	761.1	48.2	9.0	61	ssw.			2		ckn		w.	0.217	5.5		M. Hasse, Director.
Nantes, Observatory	29.89	759.3	30.06	763.4	53.6	12.0	58	sw.			1–3	c	8 kn	w.		0.720	18.3		M. Larocque, Director.
Perpignan, Observatory	30.08	763.9	30.19	766.8	57.4	14.1	38	n.	24.2	10.8			3		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.15	537.2			13.3	—10.4		nw.			2		1		se.	0.079	2.0		**M. Vaussenat, Director.**
Privas, Normal School	29.09	738.8	30.18	766.5	47.1	8.4	70	n.			1		5	s.	s.	0.677	17.2	cloudy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.09	637.4			26.6	— 3.0	100	wnw.			7		10			0.398	10.1	snow & fog	M. Allnard, Director.
Rochefort, Naval Obs'y	30.06	763.6	30.10	764.4	50.0	10.0	89	sw.			2		10			0.08	2.	covered	M. Brotier, Director.
Roche-sur-Yon, N. School	29.85	758.1	30.06	763.6	51.1	10.6	65	se.			1		2		ne.	0.492	12.5	slightly cl'dy	Lt. E. Decante, Director.
Rodez, Normal School	27.97	710.4	30.19	766.8	39.9	4.4	93	sw.			2		k		s.	0.244	6.2		M. Seger, Director.
Rouen, Normal School	29.86	758 5	29.91	759.7	46.4	8	77	se.			1		2	s.		0.24	6.	slightly cl'dy	M. Moullot.
Saint Lô					45.7	7.6	66	ww.			1		5		sw.	0.571	14.5	cloudy	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.82	757.4	29.98	761.6	49.3	9.6	59	sw.			3		5		wsw.	0.295	7.5		M. Renou, Director.
Toulouse, Observatory	29.53	750.0	30.26	768.5	48.4	9.1	84	sw.			1		0			0.366	9.3	clear	M. Baillaud, Director.
Tours	29.88	759.0	30.06	763.5	50.0	10.0	62	sw.			3		2	w.	wsw.	0.268	6.8	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.46	748.3	29.95	760.8	48.2	9.0	52	w.			3		5			0.181	4.6	fair	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.11	764.7	30.26	768.5	54.3	12.4	71	w.	11.9	5.3		0	2 k		w.	0.437	11.1		**M. Cartier, Director.**
German.																			
Ansbach	28.54	725.0	30.03	762.7	41.9	5.5	79	sw.			2		6	sw.		0.020	0.5		**Prof. Jnedt.**
Bamberg	29.14	740.1	29.98	761.5	44.6	7.0	63	se.			1		5			0.020	0.5		**Prof. Dr. Hoh.**
Berlin	29.80	757.0	29.95	760.7	40.5	4.7	64	e.			3		7			0	0		**Meteorological Institute.**
Breslau	29.58	751.2	30.11	764 7	35.6	2.0	64	s.			4		1			0	0		Royal University Obs'y
Carlsruhe	29.56	750.7	30.02	762.4	51.1	10.6	71	sw.			4		5	sw.		0.138	3.5		Albert Senz.
Cassel	29.11	739.5	29.83	757.6	50.5	10.3	73	sw.			6		4	ssw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.56	750.9	29.93	760 2	50.2	10.1	76	ssw.			2		7			0	0		**Physical Society.**
Friedrichshafen	28.62	727.0	30.10	764.5	41.0	5.0	87	w.			2		10	w.		0.059	1.5		Wilhelm, Chief Tel.
Hamburg	29.65	753.2	29.74	755.5	45.1	7.3	82	sse.			6		10			0	0		E. Preller.
Kiel	29.71	754.6	29.72	755.0	43.2	6.2	91	s.			1		10			0.004	0.1		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.54	750.3	29.97	761.3	41.2	5.1	71	se.			2		8	se.		0	0		H. Leppig, Asst.
Magdeburg	29.69	754.1	29.88	759.0	41.5	5.3	82	sse.			3		10	sw.		0	0		**Dr. Assmann.**
Memel	30.17	766.2	30.21	767.4	32.0	0	86	se.			3	0	0					clear	Issermann.
Munich	28.21	716.4	30.07	763.8	39.0	3.9	81	calm			0		10	w.		0	0		**Central Station.**
Neufahrwasser	30.08	764.1	30.10	764.5	36.7	2.6	58	se.			4		1			0	0		**A. Lothes.**
Neustadt, Palatinate	29.40	746.7	29.93	760.1	50.0	10.0	75	sw.			2		6	sw.		0.445	11.3		Dicknether.
Stuttgart	29.05	737.7	29.95	760 6	49.6	9.8	70	w.			4		9	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.82	757 3	29.84	758.0	37.6	3.1	93	se.			4		10 8			0	0		Profs. Brandes & **Reimer.**
Greek.																			
Athens	29.93	760.2	30.32	770.2	45.7	7.6		n.			3.5	0	5 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.96	760.8	30.01	762.1	75.6	24.2	64	wsw.	16.0	7.2			0			0	0	blue sky	
Deesa	29.47	748.5	29.95	760.7	79.2	26.2	32	w.	8.0	3.6			0			0	0	hazy	
Bombay	29.91	759.6	29.95	760.6	79.0	24.4	60	nnw.	29.0	13.0			0			0	0	blue sky	
Poona, Yarrowda	28.02	711.8	29.85	758.1	87.9	31.1	18	w.	14.0	6.3			3		wsw.	0	0	d. clouds	
Belgaum	27.38	695.3	29.88	759.0	83.8	28.8	25	ese.	4.0	1.8			1	nw.		0	0	d. clouds	
Lahore	29.23	742.4	30.00	761.9	67.1	19.5	35	n.	4.0	1.8			0			0	0	blue sky	
Roorkee	29.05	737.9	29.97	761.3	68.8	20.4	43	calm	0	0			0			0	0		
Agra	29.39	746.4	29.96	761 0	75.2	24.0	34	ne.					0			0	0	blue sky	
Nagpur	28.84	732.6	29.87	758.7	88.7	31.5	26	ssw.	12.0	5.4			4	sw.		0	0	d. clouds	
Jubbulpore	28.53	724.6	29.87	758.8	84.3	29.1	31	nw.	6.0	2.7			5		nw.	0	0	d. clouds	
Lucknow	29.02	752.5	30.02	762.4	67.3	19.6	48	calm	0	0			0			0	0	blue sky	
Allahabad	29.62	752.4	29.94	760.6	71.3	21.8	56	calm	0	0			6		e.	0	0	d. clouds	
Patna	29.75	755.7	29.94	760.6	72.5	22.5	48	w.	1.5	0.7			4	w.	w.	0	0	d. clouds	
Hazaribagh	27.90	708.5	29.93	760.3	72.6	22.6	48	n.	4.0	1.8			1			0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.86	758.3	29.94	760.4	82.2	27.9	51	s.	2.0	0.9			0			0	0	blue sky	
Calcutta, Alipore	29.92	760.0	29.95	760.6	76.9	24.9	55	ssw.	4.0	1.8			2			0	0	d. clouds	
Dhubri	29.82	757.3	29.94	760.4	71.9	22.2	52	calm	1.0	0.4			0			0	0	blue sky	
Chittagong	29.91	759.6	30.00	762.0	68.6	20.3	61	w.	3.0	1.3			0			0	0	blue sky	
Sibsagar	29.65	753.0	30.00	761.9	63.4	17.4	80	se.	2.0	0.9			7	w.	w.	0	0	d. clouds	
Teypore	28.48	723.4	29.94	760.5	75.0	23.9	47	s.	3.6	1.6			0			0	0	blue sky	
Bellary	28.44	722.4			85.0	29.4	28	se.	6.	2.7			0			0	0	blue sky	
Trichinopoly	29.69	754.1			82.1	27.8	45	calm	0	0			0			0	0	blue sky	
ITALIAN.																			
Udine	29.84	757.9	30.26	768.7	41.5	5.3	98	e.	2.5	1.1			10			0.315	8.0		Prof. Giovanni Clodig.
Milan	29.70	754.4	30.24	768.0	30.9	4.4	93	e.	1.8	0.8			10	e		0.315	8.0		Prof. Schiapparelli.
Padua	30.10	764.6	30.22	767.5	43.2	6.2	95	nne.	7.4	3.3			10			0.252	6.4		Prof. Dott. Lorenzoni.
Moncalieri	29.29	743.9	30.23	767.8	40.1	4.5	95	n.	1.3	0.6			10	n.		0	0		Prof. F. F. Denza.
Genoa	29.97	761.1	30.16	766.1	44.1	6.7	90	ne.	7.4	3.3			10	se.		0.130	3.3		Prof. G. M. Garibaldi.
Mondovi	28.24	717.4	30.25	768.3	38.1	3.4	85	nw.			2		10			0	0		Prof. D. O. Bruno.
Pesaro	30.15	765.8	30.20	767.1	43.2	6.2	82	nw.	1.3	0.6			10			0	0		Prof. Luigi Guidi.
Florence	29.93	760.2	30.19	766.8	50.5	10.3	86	ne.			2		10			0.007	1.7		Prof. Costantino Pittei.
Leghorn	30.02	762.6	30.11	764.8	55.4	13.0	85	s.	5.6	2.5			10	wsw.		0.232	5.9		Prof. P. Monte.
Rome	30.02	762.6	30.20	767.1	59.9	15.5	62	sw.	3.1	1.4			10			0	0		Prof. P. Tachini.
Lecce	30.04	762.9	30.30	769.5	52.3	11.3	62	ese.	10.5	4.7			3	se		0	0		Prof. C. de Giorgi.
Cosenza	29.37	745.9	30.28	769.0	52.9	11.6	76	wnw.	3.8	1.7			5	nw.		0	0		Prof. D. Conti.
Cagliari	29.98	761.6	30.18	766.6	59.0	15.0	63	nw.			4		10			0.024	0.6		Prof. A. Pacinotti.
Palermo	29.97	761.2	30.22	767.7	60.6	15.9	66	ne.	0.7	0.3			7	wnw.		0	0		Prof. G. Caccintore.
Syracuse	30.15	765.8	30.19	766.9	54.7	12.6	77	ne.	28.6	12.8			10	ne.		0.197	5.0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.70	754.4	30.23	767.9	55.9	13.3	59	ene.	0.7	0.3			5	ne.		0	0		Prof. F. Brioschi.
Stelvio	22.11	561.5			25.2	— 3.8	98	w.			4		10			0.051	1.3	covered	Prof. P. F. Denza.
Valdobbia	22.13	562.0			27.3	— 2.6	66	sw.			2		10			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.33	770.4	30.36	771.2	27.9	— 2.3	93	calm			0		10 ck			0.102	2.6	cloudy	H. Hattori.
Awomori	30.29	769.3	30.33	770.4	17.0	— 8.3	68	s.	5.1	2.3		0	1 ks			0.028	0.7	clear	K. Ogawa.
Hakodate	30.31	769.8	30.32	770.1	19.0	— 7.2	100	n.	3.0	1.3		0	4			0	0	fair	
Hamamatsu	30.28	769.1	30.31	769.8	39.9	4.4	77	calm			0		10 n			0.039	1.0	raining	
Kagoshima	30.25	768.2	30.26	768.5	42.8	6.0	66	n.			2	0	0			0	0	clear	G. Miyanonaza.
Kioto	30.13	765.2	30.31	769.9	32.5	0.3	73	nnw.	1.8	0.8		0	1 ck			0	0	clear	M. Tojima.
Kochi	30.25	768.3	30.27	768.8	40.9	4.9	85	nw.	3.9	1.7		0	0		sw.	0	0	fair	K. Kusunose.
Miasaka	30.23	767.9	30.26	768.6	47.2	8.4	85	calm			0		9 ks;s		ne.	0	0	cloudy	K. Masusaki.
Nagasaki, I. M. Obs'y	30.09	764.3	30.31	769.8	39.5	4.2	84	calm	0	0		0	0			0	0	clear	S. Takehayashi.
Niigata	30.34	770.6	30.37	771.4	30.1	— 1.1	89	sse.	1.9	0.8		0	5 ck		w.	0.010	0.2	fair	M. Moritu.
Nobiru	30.33	770.3	30.34	770.7	27.0	— 2.8	100	nnw	8.1	3.7		0	5 s			0	0	fair	H. Midzushima.
Numazu	30.28	769.0	30.31	769.9	38.1	3.4	67	calm			0		10 ks			0	0	cloudy	R. Kaneda.
Osaka	30.30	769.6	30.32	770.8	36.1	2.3	70	ne.	4.9	2.1		3 cs	0	sw.		0	0	clear	H. Omura.
Sakai	30.31	769.8	30.32	770.1	42.3	5.7	68	e.			4	1 ck	0	w.		0	0	clear	K. Yamawchi.
Supporo					23.0	— 5.0	72	se.	0.4	2.9			10			0	0	covered	
Tokei Obs'y, Yeddo	30.20	768.5	30.34	770.6	33.6	0.9	79	n.	9.2	4.1			10 s			0	0		The Staff.
Wakayama	30.24	768.2	30.30	769.6	35.6	2.0	79	ne.	11.4	5.1			10 n;ck		w.	0.018	0.5	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.09	754.1	29.88	758.9	81.3	27.4	68	ne	14.5	6.5		6cs;ck	4 ks;k	var.	nne.	0	0	overcast	Oliver & Figon.
MEXICAN.																			
Altata					57	13.9	81	nw.										clear	H. Diaz Pena.
Guanajuato	23.08	601.4	29.90	759.4	53.8	12.1	94	sw.	imap.	imap.		0	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.32	617.7	30.10	764.5	50.0	10.0	82	w.			1	5 c	0			0	0	½ cloudy	Prof. M. Leal.
Mazatlan	29.08	753.9	29.94	760.5	65.5	18.6	78	nw.	1.6	0.8		2 cs	0	sw.		0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	586.9	30.21	767.3	52.7	11.5	73	calm	0	0		0	1 k			0	0	fine	The Staff.
Morelia	24.29	617.0	30.14	765.5	52.5	11.4	72	se.			2	1 c	2 k	e.	se.	0	0		M. Tena, M. D.
Pabellon	23.94	608.2	30.04	763.0	51.6	10.8	57	calm	0	0		1 cs	0			0	0	clear	
Puebla, Catholic Institute	23.40	594.4	30.247	768.67	47.1	8.4	78	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
Zacatecas	22.56	573.0	30.23	767.8	52.5	11.4	67	sw.	3.3	1.5		4 c	0 k	e.	sw.	0	0	covered	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.75	755.6	29.75	755.6	42.4	5.8		sw.			5					0.138	3.5		
Groningen	29.00	751.7	29.05	753.1	45.9	7.7		sw.			0					0.094	2.4		
Helder																0	0		
Hellevoetsluis	29.66	753.4	29.66	753.4	44.2	6.8	80	sw.			4					0.177	4.5		
Utrecht	29.69	754.1	29.74	755.3	40.6	8.1	83	sw.			5		8			0.142	3.6	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.84	757.9			79.3	26.3	89	nnw.	0.5	0.2			5			0.08	2.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.23	742.4	29.29	744.0	43.5	6.4	73	sse.	11	5			10			0.800	22.0		
Brono	29.48	748.9	29.52	749.9	40.6	4.8	53	s.			0		2			0	0		
Christiania	29.52	749.8	29.07	753.6	35.4	1.9	93	se.	2	1			10			0.256	6.5	raining	
Glæsver	29.54	750.4	29.57	751.0	29.8	— 1.2		s.			2		1						
Lodingen	29.47	748.4	29.51	749.6	34.5	1.4	74	ne.			2		8			0	0		
PORTUGUESE.																			
Angra, Azores	29.73	755.1	29.89	759.1	60.8	16.0	87	w.	21.7	9.7			5			0	0		Dr. J. A. Sampaio.
Campo Major	29.29	744.0	30.32	770.0	54.0	12.2	95	sw.	1.3	0.6			7			0.079	2.0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.27	768.8	30.30	771.1	65.5	18.6	75	wsw.	6.3	2.8			1			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.99	761.8	30.30	771.1	54.5	12.5	58	wsw.	3.1	1.4			8	wnw.		0.283	7.2		The Staff.
Ponta Delgada, Azores	29.90	760.9	30.03	762.7	63.7	17.6	82	wsw.	28.0	12.5			3			0.047	1.2		
Saint Paul de Loando	29.07	753.5	29.86	758.5	86.2	30.1	91	w.	0.7	0.3			4	s.		0	0		
Serra da Estrella	25.44	646.2	30.31	769.9	38.5	3.6	75	ssw.	1.3	0.6			1			3.276	83.2	foggy	
RUSSIAN.																			
Akmolinski	28.79	731.3	30.00	762.0	— 4.5	—20.3	80	sw.	2	1		0	8 ks			0.020	0.5		Major K. Lasarew.
Archangel	30.09	764.2	30.11	764.7	6.1	—14.4	74	ssw.	2	1		0	0			0	0		Capt. Sselliwerstow.
Ashuruda	30.47	773.8	30.37	771.4	44.6	7.0	81	nnw.	11	5		0	4 ks			0	0		
Astrakhan	30.55	775.9	30.47	773.8	27.5	— 2.5	77	nnw.	7	3			10 s			blank	blank	heavy clouds	Capt. Wisganow.
Baku	30.51	774.9	30.46	773.7	36.9	2.7	74	nne.	4	2		0	7 ks			0	0		
Barnaul	29.59	751.6	30.14	765.6	6.1	—14.4	82	sw.	9	4			10			0.154	3.9		Meteorological Obs'y.
Bielosersk	29.89	759.2	30.39	772.0	22.1	— 5.5	59	calm	0	0		0	0			0	0		
Dorpat	30.00	763.5	30.32	770.1	22.0	— 5.2	88	sse.	2	1		8 ck	0			0	0		Observatory.
Ekaterinburg	29.22	742.1	30.31	769.8	— 5.3	—20.7	71	nw.	9	4		0	0			blank	blank		Meteorological Obs'y.
Elisawetgrad	30.13	765.4	30.62	777.8	18.0	— 7.8	84	n.	7	3			10 n			0.004	0.1		
Irkutsk	28.45	722.7	30.28	769.0	2.3	—16.5	80	ese.			1		0			0	0		
Kasalinsk	29.70	756.0	29.94	760.5	18.7	— 7.4	64	w.	4	2			10 8						
Kasan	30.05	763.3	30.35	770.8	12.7	—10.7	84	wsw.	4	2			10			imap.	imap.	light snow	Observatory.
Kem	30.05	763.3	30.10	764.6	10.0	—12.2	90	sw.	18	8			10			0	0	heavy clouds	
Kertch	30.30	769.7	30.32	770.2	22.5	— 5.3	88	ene.	9	4		0	8 n			0	0		Lagorio & Sastyrez.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Kieff	29.91	759.6	30.61	777.6	11.5	—11.4	93	se.	2	1		c	2 ks			0	0		Observatory.
Koslov	30.00	762.1	30.59	777.0	7.3	—13.7	73	nw.	2	1			0			0	0		
Libau	30.13	765.2	30.15	765.8	33.3	0.7	67	se.	11	5			0			0	0		E. Quaas.
Lugan	30.32	770.1	30.52	775.3	18.0	— 7.8	77	ene.	9	4			10			0.004	0.1		Meteorological Obs'y.
Moscow	30.00	762.0	30.55	775.9	12.6	—10.8	71	wnw.	3.4	1.5		0	0			0	0		Meteorological Obs'y
Nikolaiev	30.46	773.7	30.54	775.6	21.6	— 5.8	82	ene.	13	6			10 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.05	763.2	30.13	765.4	— 7.2	—21.8	70	calm	0	0			0			0	0		Iwanow.
Pekin, China	30.17	766.3	30.32	770.1	28.9	— 1.7	78	calm	0	0		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	30.04	763.1	30.42	772.6	29.1	— 1.6	78	sw.	2	1			10 n					snowing	
Petrozavodsk	30.05	763.2	30.26	768.7	6.1	—14.4	83	calm	0	0		0	0			0	0		Dr. Bergmann.
Pinsk	29.93	760.3	30.46	773 7	30.6	— 0.8	49	ese.	9	4		0	0			0	0		
Poti	30.11	764.8	30.13	765.3	50.0	10.0	82	s.	4	2		0	5 ks			0	0		
St. Petersburg	30.30	769 7	30.32	770.1	12.7	—10.7	73	sse.	9	4		0	1			0	0		Central Physical Obs'y.
Samarkand	27.79	705.8	30.44	773.2	22.8	— 5.1	73	calm	0	0		0	3 k						
Semipalatinsk	29.51	749.6	30.23	767.8	7.9	—13.4	84	s.	18	8			10			0	0		Major Lasarew.
Sevastopol	30.01	762.2	30.24	768.2	35.4	1.9	60	nne.	16	7		0	1 s			0	0		
Staroi Bykhov	30.11	764.8	30.62	777.7	14.5	— 9.7	61	se.	7	3						0	0		
Tashkend	28.69	728.6	30.50	774.7	20.8	— 6.2	51	ne.	7	3		7 ck	0			0	0		Terch, A. M.
Tiflis	28.89	733.9	30.39	772.0	32.7	0.4	67	s.	2	1			10			0	0		Physical Observatory.
Vernoe	27.68	703.0	30.42	772.6	12.0	—11.1	79	ne.	4	2			10 n						
Viatka	29.58	751.3	30.27	768.9	7.5	—13.6		calm	0	0			1			0	0		
Vladivostock	30.39	772.0	30.46	773.7	— 1.8	—18.8	37	n.	7	3			0			0	0		
Warsaw	29.80	756.9	30.25	768.3	33.8	1.0	55	s.	16	7		0	1 s			0	0	light clouds	Astronomical Obs'y.
Wilna	29.95	760 8	30.40	772.2	27.5	— 2.5	46	se.	2	1			0			0	0		Berg, Assistant.
Yeniseisk	29.88	759.0	30.21	767.2	— 5.1	—20.6	80	ese.	2	1			5					snowing	M. O. Marks.
Scottish.																			
Monach Lt			29.18	741.2	39	3.9	91	sw.			6		10			0.2	5.	showery	J. Youngclause.
North Unst			29.07	738.4				se.			3		10						Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.07	763.8	30.17	766.4	56.3	13.5	68	sw.	0.2	0.1		0	2 k			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.21	767.3	30.27	768.8	57.6	14.2	48	ne.	5.4	2.4		0	0			0.067	1.7	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.27	692.6	30.34	770.5	43.2	6.2	67	sw.	18.1	8.1		0	4			0.094	2.4	light clouds	Domingo Martin.
Madrid, Royal Obs'y	28.03	712.0	30.31	769.9	50.4	10.2	49	w.	11.2	5.0		1	0	w.		0.020	0.5	almost clear	The Staff.
Murcia, Met. Obs'y	30.13	765.2	30.28	769.1	61.5	16.4	65	sw.	1.8	0.8		2	5	ene.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.28	743.7	30.18	766.6	45.5	7.5	92	w.	11.5	5.1		4 k	2 n	s.	s.	0	0	cloudy	Prof. L. G. Fradas.
Santiago, Met. Obs'y	29.28	743.8	30.20	767.1	50.5	10.3	74	s.	17.4	7.8			9			0.551	14.0	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.88	759.0	29.94	760 4	75.3	24.1	86	e.	5.5	2.5			5 ks		ne.	0.382	9.7	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.26	768.6	30.36	771.2	60.4	15.8	86	calm	0	0		0	7		w.	0.067	1.7		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.06	763.4	30.15	765.7	76.3	24.6	83	se.	21.0	9.4		2 cs	4 k	se.	se.	0	0	d. clouds	Enrique Gades, Chf Eng'r
Swedish.																			
Haparanda	29.87	758.6	29.91	759.6	28.8	— 1.8	96	sw.			4		10			0	0		
Umea	29.88	758.9	29.93	760.2	32.7	0.4	96	sw.			4		10			0	0		
Hernosand	29.82	757.5	29.87	758.8	32.7	0.4	92	ssw.			6		10			0	0		
Stockholm	29.82	757.3	29.99	761.8	34.3	1.3	83	ssw.			4		10			0	0		
Wisby	29.95	760.8	30.01	762.3	34.2	1.2	78	s.			4		3			0	0		
Sub-series.																			
Upsala	29.86	758.5	29.95	760.7	34.2	1.2	89	s.	18.6	8.3			10			0	0		S. G. Fineman.
Swiss.																			
Geneva	28.73	729.7	30.19	766.9	40.3	4.6	87	ssw.			4		10			0.291	7.4	raining	The Observatory.
Turkish.																			
Constantinople			30.36	771.2	28.8	— 1.8	92	n.	17	7.5			10		n.	0	0		The Observatory.
Valona			30.31	769.8	53.1	11.7		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.98	761.6	60.4	15.8	67	sw.			1		10 n		sw.	0.01	0.3		Prof. C. V. A. van Dyck.
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	30.00	762.0	30.09	764.3	17	— 8.3	83	ne.	6	2.7			10 n			0.25	6.3	light snow	J. O. Barnes.
Alpena, Michigan	29.09	738.9	29.80	756.9	13	—10.6	80	s.	7	3.1			10 n			0.01	0.3	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.02	635.5	30.12	765.0	37	2.8	92	e.	1	0.4			10 s			0.20	5.1	cloudy	W. O. Barnes.
Assinnaboine, Ft., Montana	26.89	683.0	29.93	760.2	13	—10.6	66	sw.	18	8.0		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.97	735.8	30.19	766.8	53.5	11.9	100	se.	5	2.2			fg.			0.06	1.5	dense fog	H. C. Smyth.
Atlantic City, New Jersey	30.04	763 0	30.05	763.3	34	1.1	88	e.	6	2.7			10 n			1.22	31.0	light rain	Jas. M. Watson.
Augusta, Georgia	30.02	762.5	30.22	767.6	56	13.3	93	e.	1	0.4			10 n			0.03	0.8	light rain	John Healy.
Baltimore, Maryland	30.00	762.0	30.05	763.3	36	2.2	89	calm	0	0			10 s			0.94	23.9	cloudy	Geo W Felger.
Barnegat, New Jersey	30.03	762.7	30.05	763.3	35.0	1.7	96	e.	10	4.5			10 n		e.	1.10	27.9	light rain	G. A. Hill.
Behring Id., Behring Sea	30.00	763.5	30.08	764.0	32.6	0.3		s.	18	8.0		0	5 n			0.17	4.3	fair	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.25	717.5	29.98	761.5	13	—10.6	66	w.	20	8.9		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	26.92	683.8	29.92	760.0	15	— 9.4	67	sw.	15	6.7		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.58	675.1			— 3	—19.4	68	sw.	2	0.9		c	0			0	0	clear	T. Gibson.
Bismarck, Dakota	27.93	709.4	29.91	759.7	7	—13.9	80	nw.	16	7.2		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.05	763.3	30.08	764.0	34	1.1	78	se.	16	8.0			10 n		se.	0.30	7.6	light rain	J. T. Elker.
Boise City, Idaho	27.27	692.6	30.23	767.8	6.5	—14.2	91	calm	0	0		0	4 s			0	0	fair	B. E. Light.
Boston, Massachusetts	30.01	762.2	30.17	766.3	28.0	— 2.2	88	se.	7	3.1			10 n			0.46	11.7	light snow	O. B. Cole.
Brownsville, Texas	29.92	760 0	29.97	761.2	68.0	20.0	93	s.	14	6.3			10 s			0	0	cloudy	M. McCarty.
Buffalo, New York	29.08	738.6	29.88	758.9	26.6	— 3.1	84	ne.	4	1.8			10 s			0.09	2.3	cloudy	W. Finn.
Buford, Fort, Dakota	27.81	706 4	29.99	761.7	— 3	—19.4	68	w.	3	1.3		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.76	755 9	30.07	763.8	17.0	— 8.3	83	s.	6	2.7			10 s			0.01	0.3	cloudy	D. N. Farnell.
Cairo, Illinois	29.53	750.0	29.95	760.7	35.8	2.1	91	s.	4	1.8			10 s		w.	1.57	39.9	threatening	W. H. Ray.
Cape Henry, Virginia	30.10	764.5	30.12	765.0	42	5.6	100	s.	3	1.3			fg.		s.	0.09	2.3	dense fog	A. K. Alderson.
Cape May, New Jersey	30.00	762 0	30.03	762.7	38.0	3.3	89	se.	9	4.0			10 n			1.30	33.0	light rain	W. E. Smith.
Cape Mendocino, California	29.39	746.5	30.09	764.3	38	3.3	62	ne.	19	8.5		0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.19	766.8	30.21	767.3	69	20.6	90	se.	14	6.3		4 c	0			0	0	fair	F. W. Mixer.
Champaign, Illinois	29.02	737.1	29.89	759.2	26.2	— 3.2	76	s.	3	1.3			10 s		s.	0.13	3.3	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.18	766.6	30.24	768.1	55	12.8	100	calm	0	0			fg.			0	0	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.30	744.2	30.18	766.6	39.0	3.9	100	sw.	1	0.4			10s; fg		sw.	0.01	0.3	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.23	742.4	30.09	764.3	57.0	13.9	93	s.	15	6.7			10 ks		sw.	0.06	1.5	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.78	604.0	30.03	762.7	24.2	— 4.3	56	w.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.09	738 9	29.84	757.9	24.9	— 3.9	67	sw.	5	2.2			10 s			0.06	1.5	cloudy	J. Mitchell.
Chincoteague, Virginia	30.07	763.8	30.09	764.3	37	2.8	100	sw.	4	1.8			10s; fg		sw.	0.14	3.0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.23	742.4	29.92	760.0	37	2.8	89	s.	1	0.4			10 n			1.92	48.8	light rain	R. B. Watkins.
Cleveland, Ohio	29.08	738.6	29.88	758.9	28.7	— 1.8	83	sw.	8	3.6			10 s			0.23	5.8	cloudy	J. B. Newlin.
Coleman City, Texas	26.16	715.3	30.04	763 0	50	10.0	93	sw	2	0.9		0	0			0.06	1.5	clear	L. Dorman.
Columbus, Ohio	29 01	736.8	29.91	759 7	34	1.1	88	e.	3	1.3			10 n			0.54	13.7	light rain	D. Cuthbertson.
Concho, Fort, Texas	28.03	711 9	30.05	763 3	51.0	10.6	86	calm	0	0			10 s			0.04	1.0	cloudy	J. McGlone.
Davenport, Iowa	29.13	739.9	29.83	757.7	27	— 2.8	64	sw.	8	3.6			10 s			inap.	inap.	cloudy	R. R. Martin.
Davis, Fort, Texas	25 17	639.3	30.13	765 3	46	7.8	74	sw.	4	1.8						0	0	fair	J. Williams.
Dayton, Washington T'y	28.30	718.8	30.11	764.8	— 5	—20.6	81	sw.	4	1.8		2 c	4 ks	sw.	sw.	0	0	cloudy	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.10	637.5	30.02	762.5	17	— 8.3	87	s.	2	0.9		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.06	763.5	30.08	764.0	34	1.1	100	se.	8	3.6			10 n		se.	0.66	16.8	light rain	T. S. Townsend.
Denison, Texas	29.13	739.9	29.97	761.2	45.0	7.2	100	sw.	8	3.6			10 s			0.36	9.1	cloudy	J. W. Byram.
Denver, Colorado	24.48	621.8	30.00	762.0	23.0	— 5.0	67	n.	4	1.8		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.86	733.0	29.83	757.7	30	— 1.1	78	w.	7	3.1			10 s		w.	inap.	inap.	cloudy	F. W. Conrad.
Detroit, Michigan	29.12	739.6	29.87	758.7	25.2	— 3.8	92	calm	0	0			10 s			0.10	2.5	cloudy	E. R. Brace.
Dodge City, Kansas	27.25	692.1	29.99	761.7	23	— 5.0	88	nw.	19	8.5		0	0			0	0	clear	V. P. Temple.
Dubuque, Iowa	29.04	737.6	29.80	756.9	25	— 3.9	73	s.	1	0.4			10 s			inap.	inap.	cloudy	J. Harvey Smith.
Duluth, Minnesota	28.90	734.0	29.71	754.6	10	—12.2	80	sw.	6	2.7			10 s		sw.	0.03	0.8	cloudy	N. B. Conger.
Eagle Pass, Texas	29.26	743.2	30.10	764.5	53.0	11.7	86	n.	3	1.3			10 s			inap.	inap.	cloudy	F. Belford.
Eagle Rock, Idaho	25.22	640.6	30.12	765.0	—21	—29.4	100	n.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.24	768.1	30.31	769.9	20.0	— 6.7	84	s.	13	5.8			10n;fg		s.	0.09	2.3	heavy snow	D. C. Murphy.
Elliott, Fort, Texas	27.08	687.8	29.98	761.5	43	6.1	60	sw.	20	8.9		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.24	666.5	30.12	765.0	48.0	8.9	46	w.	4	1.8		0	4 s		w.	0.02	0.5	fair	J. O'Dowd.
Erie, Pennsylvania	29.12	739.6	29.88	758.9	33	0.6	88	sw.	5	2.2			10 s			0.28	7.1	cloudy	Peter Wood.
Escanaba, Michigan	29.01	736.8	29.73	755.1	11.0	—11.7	100	sw.	2	0.9			10 n			0.05	1.3	light snow	George Heathcote.
Fredericksburg, Texas	28.21	716.5	30.01	762.2	57	13.9	100	e.	1	0.4			10 s			0.26	6.6	cloudy	Frank Halwegler.
Galveston, Texas	29.98	761.5	30.02	762.5	64	17.8	93	s.	8	3.6			fg.			inap.	inap.	dense fog	E. O'C. Macinernay
Grand Haven, Michigan	29.08	738.6	29.79	756.7	26.0	— 3.3	88	s.	8	3.6			10 s			0.01	0.3	threatening	J. E. Mueller.
Grant, Fort, Arizona	25.23	640.8	30.09	764.3	44	6.7	80	e.	4	1.8			10 n			0.15	3.8	light rain	Robert C. Lord.
Hatteras, North Carolina	30.15	765.8	30.17	766.3	52	11.1	100	s.	13	5.8		3 c	4 s		se.	0	0	fair	R. M. Crawford.
Helena, Montana	25.62	650.7	30.02	762.5	15	— 9.4	83	calm	0	0			10 s		calm	0	0	cloudy	N. C. Smith.
Henrietta, Texas	28.93	734.8	29.98	761.5	45	7.2	76	s.	4	1.8		2 cs	0		nw.	0.10	2.5	clear	J. P. Sherry.
Huron, Dakota	28.38	720.8	29.90	759.4	6	—14.4	55	sw.	12	5.4		0	0			inap	inap.	clear	S. W. Glenn.
Indianapolis, Indiana	29.02	737.1	29.87	758.7	31	— 0.6	78	s.	3	1.3			10 s			0.08	2.0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.96	761.0	29.99	761.7	65.5	18.6	98	s.	7	3.1		0	8 k		s.	inap.	inap.	cloudy	I. A. Reed.
Jacksboro, Texas	28.76	730.5	30.00	762.0	50	10.0	64	n.	8	3.6		0	3 s			0	0	clear	D. J. Carr.
Jacksonville, Florida	30.19	766.8	30.24	768.1	59	15.0	100	calm	0	0			fg.			0	0	dense fog	J. W. Smith.
Keogh, Fort, Montana	27.32	693.9	30.00	762.0	1	—17.2	75	sw.	2	0.9		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.16	740.7	29.86	758.4	28.0	— 2.2	88	w.	3	1.3			10 s			0.02	0.5	cloudy	F. Z. Gosewisch.
Key West, Florida	30.12	765.0	30.14	765.5	73.0	22.8	100	e.	11	4.9		0	4 ks		e.	0.25	6.3	threatening	Lee M. Melbourne.
Kittyhawk, North Carolina	30.13	765.3	30.15	765.8	47.5	8.6	96	sw.	6	2.7			fg.			0.03	0.8	dense fog	H. Mc P. Baldwin.
Knoxville, Tennessee	28.93	734.8	30.01	762.2	59.5	15.3	84	sw.	9	4.0			10 s		sw.	0.19	4.8	threatening	J. A. Cody.
La Crosse, Wisconsin	28 94	735.1	29.78	756.4	24	— 4.4	61	sw.	6	2.7			10 s			0.01	0.3	cloudy	S. C. Emery.
Leavenworth, Kansas	28.98	736.1	29.93	760 2	34	1.1	78	nw.	3	1.3			10 s			inap.	inap.	cloudy	A. W. Browne.
Lewiston, Idaho	29.36	745.7	30.23	767.8	1.0	—17.2	72	calm	0	0		0	0			inap.	inap.	clear	W. Bell.
Little Rock, Arkansas	29.63	752.6	29.96	761.0	44	6.7	83	calm	0	0			10 s			0.84	21.3	cloudy	W. U. Simons.
Los Angeles, California	29.73	755.1	30.13	765.3	47	8.3	76	ne.	3	1.3			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.29	744.0	29.88	758.9	40	4.4	82	s.	3	1.3			10n;fg			2.16	54.9	light rain	L. M Dey.
Lynchburg, Virginia	29.34	745.2	30.06	763.5	37	2.8	82	sw.	4	1.8			10 s			0.03	0.8	cloudy	Louis Duane.
Mackinaw City, Michigan	29.04	737.6	29.74	755.4	17.0	— 8.3	83	s.	4	1.8			10 n			0.01	0.3	light snow	F. R. Day.
Macon, Fort, North Carolina	30.20	767.1	30.22	767.6	49.0	9.4	100	se.	2	0.9		8 cs	0	w.		0	0	cloudy	William Daly.
Madison, Wisconsin	28.72	729.5	29.80	756.9	22	— 5.6	73	sw.	4	1.8			10 s			inap.	inap.	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.27	641.8	29.81	757.2	16	— 8.9	53	w.	6	2.7		0	0			0	0	clear	F. Burke.
McKavett, Fort, Texas	27.78	705.6	30.16	766.1	52	11.1	93	sw.	5	2.2			10 s			0.01	0.3	cloudy	J. E. Thatcher.
Marquette, Michigan	28.87	733.3	29.65	753.1	14	—10.0	64	sw.	19	8.5		7 c	0	s.		0.01	0.3	fair	J. Gilligan.
Memphis, Tennessee	29.62	752.3	29.97	761.2	36	2.2	100	ne.	3	1.3			10 n			1.20	30.5	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.01	736.8	29.81	757.2	24	— 4.4	88	sw.	7	3.1			10 s			0.02	0.5	cloudy	W. Line.
Missoula, Fort, Montana	26.66	677.2	30.09	764.3	— 7	—21.7	61	nw.	2	0.9			9 s			0	0	cloudy	J. H. Young.
Mobile, Alabama	30.08	764.0	30.12	765.0	65	18.3	93	sw.	3	1.3			fg.			0	0	dense fog	C. A. Read.
Montgomery, Alabama	29.89	759.2	30.13	765.3	63.5	17.5	89	sw.	3	1.3			10 ks		sw.	0	0	cloudy	J. B. McLaughlin
Moorhead, Minnesota	28.71	729.2	29.81	757.2	0	—17.8	100	calm	0	0			10 s			0.05	1.3	cloudy	H. Bessant.
Morgantown, W. Virginia	28.87	733.3	29.94	760.5	43.5	6.4	84	sw.	3	1.3			10 n		sw.	1.30	33.0	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.49	596.6	30.12	765.0	8.0	—13.3	83	sw.	58	26.0			10 n			0.03	0.8	light snow	S. W. Beall.
Nashville, Tennessee	29.31	744.5	29.92	760.0	55.0	12.8	86	nw.	16	7.2			10 n		sw.	0.70	17.8	light rain	L. N. Jesunofsky.
New Haven, Connecticut	29.97	761.2	30.09	764.3	20	— 6.7	100	ne.	11	4.9			10 n		ne.	0.50	12.7	heavy snow	J. H. Sherman.
New London, Connecticut	30.05	763.3	30.10	764.5	32	0.0	100	e.	9	4.0			10 n		e.	0.57	14.5	light snow	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.09	764.3	67.8	19.9	90	s.	4	1.8			10 s		s.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	30.05	763 3	30.10	764.5	31.0	— 0.6	88	e.	12	5.4			10 n			0.75	19.0	heavy snow	W. McGillivray.
New York, New York	29.90	759.4	30.09	764.3	33	0.6	100	e.	1	0.4			10 n			0.82	20.8	light rain	J. B. Merrill.
Norfolk, Virginia	30.09	764.3	30.12	765.0	43	6.1	100	sw.	5	2.2			fg.			0.06	1.5	dense fog	Wm. Davis.
North Platte, Nebraska	26.93	684.0	30.03	762.7	8.6	—13.0	71	nw.	10	4.5		0	0			0	0	clear	E. F. Brady.
Olympia, Washington Ty.	29.90	761.0	30.00	762.0	31.0	— 0.6	71	s.	10	4.5			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.67	728.2	29.94	760.5	19.4	— 7.0	70	w	8	3.6		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska	30.86	783.8	30.88	784.3	—19.0	—28.3	100	wnw.	30	13.4		0	0			0	0	clear	P. H. Ray.
Oswego, New York	29.58	751.3	29.93	760.2	26.5	— 3.1	58	s.	14	6.3			10 s		s.	0.07	1.8	cloudy	J. G. Linsley.
Palestine, Texas	29.47	748.5	30.05	763.3	51.0	10.6	100	sw.	4	1.8			fg.		sw.	0.08	2.0	dense fog	L. M. Pindell.
Pensacola, Florida	30.12	765.0	30.14	765.5	65.0	18.3	100	se.	8	3.6			fg.			0.02	0.5	dense fog	M. McGauran.
Philadelphia, Pa	29.95	760.7	30.06	763.5	38	3.3	82	se.	2	0.9			10s;fg		se.	0.84	21.3	cloudy	E. M. Mattison.
Pike's Peak, Colorado	17.43	442 7	30.15	765 8	0	—17.8	62	w.			7	0	0			0	0	clear	H. Hall.
Ploche, Nevada	23.90	607.0	30.00	763.5	19.4	- 7.0	69	s.	2	0.9		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.08	738.6	29.94	760.5	37.0	2.8	100	s.	3	1.3			10 n		s.	0.80	20.3	light rain	W. A. Reid.
Poplar River, Montana	27.60	701.0	29.95	760.7				nw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.08	764.0	30.09	764.3	63.0	17.2	93	se.	8	3.6			0			0	0	clear	H. B. Boyer.
Port Huron, Michigan	29.12	739.6	29.85	758.2	17.6	— 8.0	79	s.	2	0.9			10 s			0.11	2.8	cloudy	W. O. Bailey.
Portland, Maine	30.17	766.3	30.22	767.6	14	—10.0	80	ne.	4	1.8			10 n			0.27	6.9	light snow	W. W. Eichelberger
Portland, Oregon	29.99	761.7	30.00	763.5	21.6	— 5.8	56	n.	2	0.9		0	8 s		w.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					50	10.0	93	s.	5	2.2			10s;fg		sw.	0.03	0.8	cloudy	F. S. Coburn.
Prescott, Arizona	24.70	627.4	30.06	763.5	31.5	— 0.3	51	nw.	2	0.9		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.11	764.8	30.14	765.5	29	— 1.7	88	se.	15	6.7			10 n			0.33	8.4	light snow	P. T. Jenkins.
Punta Rassa, Florida	30.18	766.6	30.19	766.8	66.5	19.2	87	e.	8	3.6		7 cl	0	se.		0.01	0.3	fair	W. J. Evans.
Red Bluff, California	29.78	756.4	30.15	765.8	33	0.6	78	n.	4	1.8		0	8 ks		w.	0	0	cloudy	J. R. Williams.
Rochester, New York	29.18	741.2	29.89	759.2	25	— 3.9	94	se.	6	2.7			10 s			0.13	3.3	cloudy	E. W. McGann
Roseburg, Oregon	29.52	749.8	30.10	764.5	30.6	— 0.8	83	w.	2	0.9		9 k	0	w.		0	0	cloudy	J. J. Nanry.
Sacramento, California	30.06	763.5	30.14	765.5	37.0	2.8	82	se.	6	2.7		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.23	742.4	29.87	758.7	33.0	0.6	94	s.	10	4.5			10 s		s.	0.21	5.3	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	31.17	791 7	31.21	792.7	— 4	—20.0	100	e.	11	4.9		0	8 s		e.	0	0	cloudy	A. P. Leavitt
St. Paul, Minnesota	28.73	729.7	29.67	753.6	9.0	—12.8	80	se.	7	3.1			10 s			0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.86	733.0	29.83	757.7	— 2	—18.9	81	nw.	3	1.3			10 s			0.01	0.3	cloudy	C. B Dilley.
Salt Lake City, Utah	25.59	650.0	30.15	765.8	13	—10.6	60	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.27	743.4	29.99	761.7	56.0	13.3	100	e.	1	0.4			10 n			0.10	2.5	light rain	T. J. Kenan.
San Diego, California	30.03	762.7	30.10	764.5	48.2	9.0	74	w.	2	0.9			10 s			0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.14	740.1	29.86	758.4	28.8	— 1.8	84	sw.	7	3.1			10 s			0.05	1.3	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.03	762.7	30.06	763.5	36.0	2.2	89	se.	11	4.9			10 n		se.	0.30	7.6	light rain	B. A. Blundon.
San Francisco, California	30.05	763 3	30.12	765.0	45	7.2	68	w.	3	1.3			10 s		w.	inap.	inap.	cloudy	N. Gorom.
Santa Fé, New Mexico	23.13	587.5	30.21	767.3	35	1.7	69	ne.	1	0.4		3 cs	0			0.03	0.8	clear	H. U. Jones.
Savannah, Georgia	30.15	765.8	30.24	768.1	58.5	14.7	85	e.	1	0.4			fg.			0	0	dense fog	H. W. Ford.
Shaw, Fort, Montana	26.07	662.2	29.92	760.0	21	— 6.1	61	sw.	21	9.4		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.76	755.9	30.01	762.2	54	12.2	93	calm	0	0			10 s			0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.64	727.4	29.94	760.5	32.5	0.3	87	s.	13	5.8		0	fg.			0.02	0.5	clear	W. M. Mattingly.
Silver City, New Mexico	24.25	615.9	30.10	764.5	40.0	4.4	86	calm	0	0		0	0 s			0.19	4.8	fair	N. D. Lane.
Sitka, Alaska	29.56	750.8	29.63	752.6	24	— 4.4	54	ne.	8	3.6		0	0			0.08	2.0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.43	747.5	29.93	760.2	35.0	1.7	94	e.	3	1.3			fg.			0.86	22.4	dense fog	J. B. Campbell.
Smithville, North Carolina	30.17	766.3	30.21	767.3	50	10.0	100	ne.	2	0.9			fg.			0.01	0.3	dense fog	O. Parker.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.00	711.2	30.13	765.3	4.3	—15.4	71	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Springfield, Illinois	29.12	739.6	29.85	758.2	33	0.6	81	s.	2	0.9	.....	.....	10 s	.....	.....	0.74	3.6	cloudy	T. B. Jennings.
Springfield, Missouri	28.36	720.3	29.87	758.7	35.0	1.7	100	s.	8	3.6	.....	.....	fg.	.....	.....	0.36	9.1	dense fog	J. H. Bryce.
Starkville, Miss	29.56	750.8	30.06	763.5	64	17.8	90	s.	10	4.5	.....	.....	10 s	.....	s.	0	0	cloudy	C. Dill.
Stevenson, Fort, Dakota	27.91	708.9	29.93	760.2	— 2	—18.9	68	nw.	20	8.9	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Stockton, Fort, Texas	26.97	685.0	30.10	764.5	49	9.4	72	sw.	4	1.8	.....	2 k	0	.....	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass.	30.12	765.0	30.18	766.6	32.0	0.0	100	s.	5	2.2	.....	.....	10 n	.....	s.	0.70	17.8	light snow	G. Liebmann.
Thomas, Camp, Arizona	27.23	691.6	30.06	763.5	47	8.3	100	calm	.....	.....	0	.....	fg.	.....	.....	0.25	6.3	dense fog	J. T. Fitzgerald.
Toledo, Ohio	29.12	739.6	29.86	758.4	27	—2.8	77	s.	1	0.4	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	A. Buell.
Tucson, Arizona	27.54	699 5	30.02	762.5	49	9.4	86	se.	2	0.9	.....	0	4 s	.....	.....	0	0	fair	J. L. Whiteside.
Umatilla, Oregon	29.86	758.4	30.24	768.1	— 6	—21.1	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	39.4	4.1	65	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.79	756.7	30.06	763.5	63.9	17.7	92	s.	8	3.6	.....	4 ck	5 k	sw.	s.	0	0	cloudy	James Kenealy.
Visalia, California	29.75	755.6	30.13	765.3	29.6	— 1.7	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	O. D. Stewart
Washakie, Fort, Wyoming	24.27	616.4	30.03	762.7	— 6.3	—21.3	83	ne.	4	1.8	.....	3 ck	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C	29.94	760.5	30.06	763.5	34.2	1.2	82	calm	0	0	.....	.....	10 s	.....	.....	0.43	10.9	threatening	B. M. Purssell.
West Las Animas, Colorado	25.86	656.8	29.99	761.7	19	— 7.2	70	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.38	746.2	30.01	762.2	31.5	— 0.3	72	se.	2	0.9	.....	.....	10 s	.....	.....	0.32	8.1	threatening	B. F. Hough.
Wilmington, N. Carolina	30.14	765.5	30.20	767.1	52	11.1	93	s.	1	0.4	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	Samuel A. Haney.
Winnemucca, Nevada	25.56	649.2	30.08	764.0	8.5	—13.1	80	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.48	723.4	29.90	759.4	11	—11.7	61	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.82	757.4	29.97	761.2	42.9	6.1	74	n.	3	1.3	.....	0	2 s	.....	s.	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.01	559.0	.....	.....	54.5	12.5	69	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	Joaquim Gomez.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	71	21.7	72	calm	0	0	.....	0	1 s	.....	e.	0	0	clear	Robert Johnston.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	82	e.	.....	.....	2	5 ck	2 k	e.	.....	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.33	745 0	29.88	758.9	83	28.3	80	calm	.....	.....	0	5 c	2 k	e.	calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	76	24.4	90	ne.	.....	.....	3	0	1 ks	.....	ne.	0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.52	775.2	30.58	776.7	20	— 6.7	70	n.	.....	.....	6	5 c	0	.....	.....	0	0	clear	W. J. Fisher.
St. Thomas, W. I.	30.06	763.5	30.19	766.8	75	23.9	71	e.	.....	.....	.....	2 k	6 kn	e.	e.	0.38	9.7	cloudy	Aug. Wallace.
Havana, Cuba	30.04	763 0	30.10	764.5	69.9	21.1	84	se.	5	2.2	.....	0	1 ks	.....	e.	0	0	clear	Benito Vines, S. J.
York Factory, B. A	30.15	765.8	30.22	767.6	—23.0	—30.6	.....	nw.	10	4.5	.....	2 c	2 s	w.	nw.	0	0	fair	Fortesque & Wood.

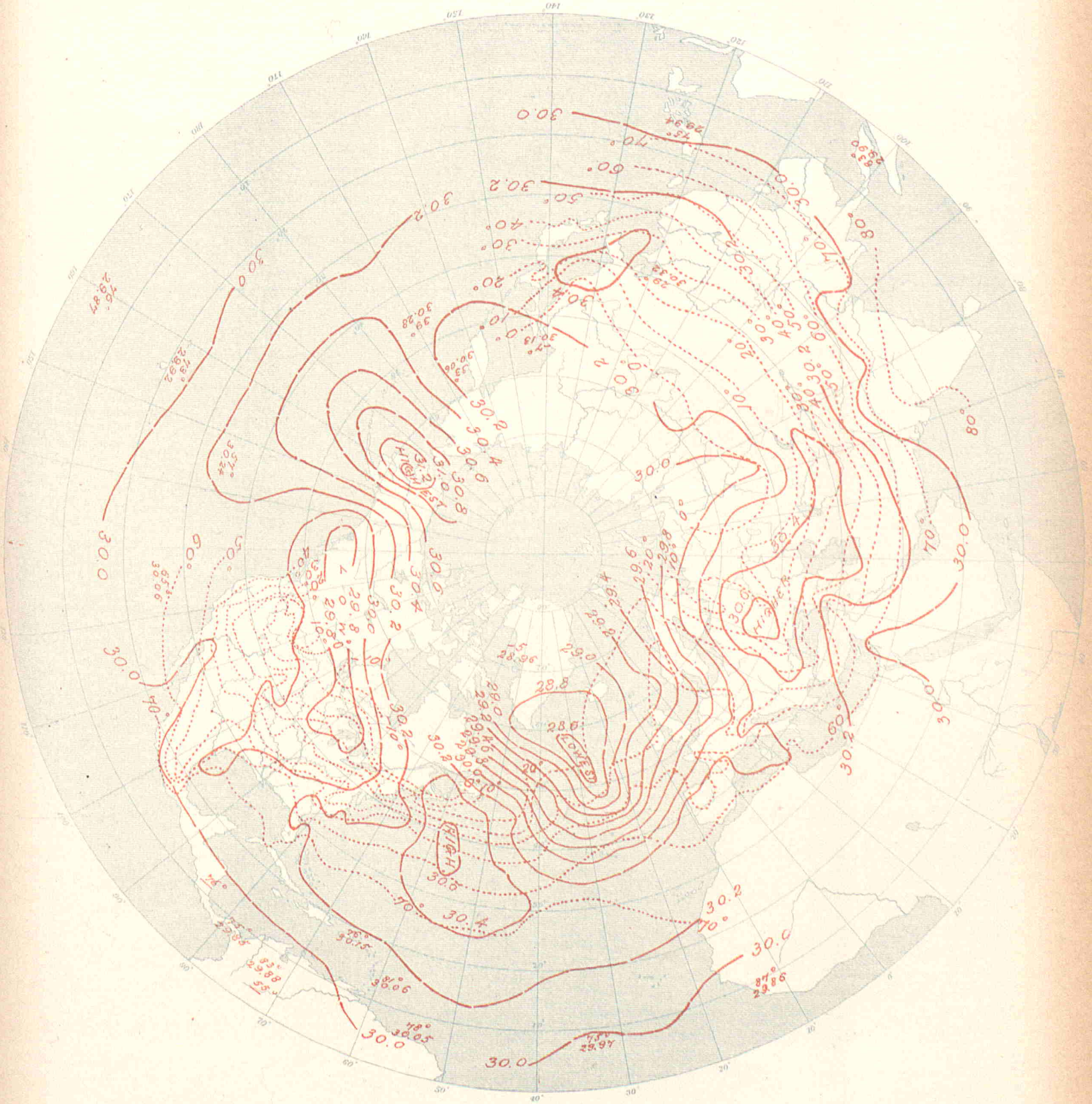
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell. Character.	Sea-swell. Direction from	Weather.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Agincourt, N. 43° 26′, W. 9° 36′	30.10	764.5	54.5	12.5	.....	ssw.	.....	.....	4-7	.....	7	ssw.	.....	.....	.....	8	var.	squally.
H. M. Dock-Yard, Bermuda, W. I.	30.38	771.6	65	18.3	89	ese.	.....	.....	1	.....	3	ese.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Fawn, N. 12° 00′, W. 30° 48′	30.03	762.7	73.5	23.1	97	ne.	.....	.....	4-5	.....	5	.....	.....	.....	.....	4	n.	misty.
H. M. S. Iron Duke, N. 37° 08′, E. 2° 18′	30.31	769.9	60	15.6	82	wsw.	.....	.....	4	.....	10	.....	.....	.....	.....	3	wsw.	d. clouds.
H. M. S. Monarch, Port Said, Egypt	30.05	763.3	60	15.6	88	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	overcast.
H. M. S. Minotaur, N. 42° 40′, W. 9° 15′	30.22	767.6	54.5	12.5	83	ssw.	.....	.....	6	.....	8	wsw.	.....	.....	.....	7	wsw.	misty.
H. M. S. Tyne, N 7° 53′, W 13° 57′	29.94	760.5	79	26.1	100	wnw.	.....	.....	1	.....	3	calm	.....	.....	.....	.....	.....	misty.
U. S. Navy Yard, Portsmouth, N. H*	30.18	766.6	16	— 8.9	?	ne.	14	6.3	.....	.....	10	.....	ne.	light	light	sm'h	.....	snowing.
U. S. S. Alliance, N. 24° 17′, W. 82° 27′	30.08	764.0	76	24.4	100	e.	.....	.....	3	.....	5	.....	.....	.....	.....	sm'h	.....	fair.
U. S. S. Enterprise, N. 13° 10′, W. 23° 40′*	30.08	764.0	71	21.7	85	e.	.....	.....	4	.....	5?	.....	e.	.....	.....	sm'h	.....	clear?
U. S. S. Kearsarge, Savanilla, U. S. C	29.82	757.4	77	25.0	82	ne.	.....	.....	4	.....	5	.....	ne.	.....	.....	sm'h	.....	fair.
U. S. S. Lancaster, Corunna, Spain	30.11	764.8	60	15.6	82	sw.	.....	.....	6	.....	0	.....	.....	.....	.....	hv'y	sw.	squally.
U. S. S. Nipsic, N. 22° 46′ W. 54° 34′	30.34	770.6	74	23.3	76	ene.	.....	.....	6	.....	10	.....	ene.	.....	.....	long	e.	cloudy.
U. S. S. Quinnebaug, N. 36° 05′ W. 5° 01′	30.33	770.4	62	16.7	83	w.	.....	.....	3	.....	5	.....	e.	.....	.....	mod.	w.	fair.
U. S. S. St. Louis, League Island, Pa	30.10	764.5	33	0.6	100	e.	.....	.....	.....	.....	10	.....	.....	0.75	19.0	.....	.....	cloudy
U. S. S. Tennessee, St. Croix, W. I*	30.13	765.3	78	25.6	82	e.	4	1.8	.....	.....	5	.....	e.	0.05	1.3	sm'h	.....	showery.
U. S. S. Vandalia, Port au Prince, Hayti, W. I*	30.06	763.5	75	23.9	81	e.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Yantic, N. 21° 12′, W. 92° 43	30.04	763.0	76	24.4	100	ese.	.....	.....	3	.....	2	.....	.....	.....	.....	sm'h	.....	clear.
S. S. British Crown, N. 48° 35′, W. 25° 24′ †	28.82	732.0	40	4.4	.....	wnw.	.....	.....	8	.....	6	.....	wnw.	5 h'r	5 h'r	hv'y	wnw.	squally.
S. S. British Prince, N. 43° 47′ W. 47° 51′	30.28	769.1	24	— 4.4	.....	nnw.	.....	.....	6	.....	7	.....	nw.	6 h'r	6 h'r	high	nw.	snow-squalls
S. S. Illinois, N. 38° 55′, W. 72° 00′	30.02	762.5	50	10.0	93	wnw.	.....	.....	4	.....	10	.....	wnw.	.....	.....	sm'h	sw.	raining.
S. S. Indiana, N. 45° 12′, W. 37° 02′	.....	.....	33	0.6	89	nw.	.....	.....	8	.....	5	.....	nw.	snow	snow	h'vy	nw.	squally.
S. S. Lord Gough, N. 40° 55′, W. 65° 45′	30.23	767.8	35	1.7	.....	ese.	.....	.....	3	.....	10	.....	s.	16 h'r	16 h'r	sm'h	.....	overcast.
S. S. Ohio, N. 50° 23′, W. 25° 09′†	28.61	726.7	39	3.9	91	sse.	.....	.....	7	.....	10	.....	s.	.....	.....	h'vy	ssw.	rain & snow.
S. S. Circassian, N. 44° 30′, W. 53° 40′*	30.51	774.9	16	— 8.9	.....	wnw.	.....	.....	5	.....	8	.....	wnw.	8 h'r	8 h'r	4	wnw.	snowing.
S. S. Nova Scotian, N. 54° 18′, W. 17° 12′	29.13	739.9	36	2.2	.....	sw.	.....	.....	4	.....	8	.....	wsw.	.....	.....	con.	var.	squally.
S. S. Manitoban, N. 46° 00′, W. 46° 45′	30.37	771.4	13	—10.6	.....	nw.	.....	.....	4	.....	8	.....	nw.	5 h'r	5 h'r	cross	var.	cloudy.
S. S. Scandinavian, N. 51° 43′, W. 27° 25′	28.48	723.4	31	— 0.6	.....	wnw.	.....	.....	6	.....	10	.....	wnw.	4 h'r	4 h'r	con.	sse.	snow-squalls
S. S. Stella, N. 44° 48′, W. 41° 59′	29.76	755.8	28.4	— 2	.....	nw.	.....	.....	7	.....	8	.....	nw.	o	o	8	nw.	squally.
S. S. Ailsa, Port Limon, Costa Rica†	30.02	762.5	82	27.8	91	ene.	.....	.....	2	.....	10	.....	ene.	6 h'r	6 h'r	sm'h	ene.	overcast.
S. S. Anchoria, N. 51° 13′, W. 32° 30′ †	29.06	738.1	.....	.....	.....	w.	.....	.....	7	.....	8	.....	nw.	snow	snow	h'vy	wnw.	overcast.
S. S. Assyria, N. 32° 49′, W. 32° 39′	30.34	770.6	69	20.6	100	w.	.....	.....	5	.....	5	.....	w.	.....	.....	mod.	w.	squally.
S. S. Bolivia, N. 40° 31′, W. 69° 11′	30.08	764.0	38	3.3	.....	wsw.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	overcast
S. S. Dorian, N. 41° 54′, W. 59° 10′	30.60	777.2	31	— 0.6	.....	calm	.....	.....	0	.....	10	.....	wnw.	snow	snow	mod.	w.	cloudy.
S. S. Pavonia, N. 46° 22′, W. 41° 24′	29.84	757.9	29	— 1.7	78	w.	.....	.....	8	.....	10	.....	w.	24 h'r	24 h'r	h'vy	w.	squally.
S. S. Pereire, N. 49° 20′, W. 32° 50′†	29.11	739.3	35.6	2	.....	nw.	.....	.....	8	.....	10	.....	nw.	hail	hail	viole't	nw.	sprinkling.
S. S. Ville de Marseilles, N. 20° 36′, W. 94° 17′	.....	.....	75	23.9	.....	ne.	.....	.....	4	.....	0	.....	.....	o	o	sm'h	.....	clear.
S. S. Abyssinia, N. 48° 33′, W. 34° 55′	29.21	741.9	43	6.1	?	nw.	.....	.....	10	.....	10	.....	nw.	hail	hail	r'gh	nw.	hail squalls.
S. S. Wyoming, N. 51° 29′, W. 8° 50′	29.57	751.1	45	7.2	.....	sw.	.....	.....	6	.....	6	.....	sew.	o	o	long	s.	threatening.
S. S. Bohemia, N. 48° 16′ W. 26° 19′ †	28.95	735.3	.....	.....	.....	ssw.	.....	.....	8-9	.....	8 k	.....	w.	6 h'r	6 h'r	h'vy	w.	hail & snow.
S. S. Silesia, N. 48° 18′, W. 38° 51′†	29.55	750.6	.....	.....	.....	w.	.....	.....	8-9	.....	3	.....	wnw.	4 h'r	4 h'r	7-8	wnw.	squally.
S. S. Vandalia, Hamburg, Germany	.....	.....	37.4	3.0	97	ese.	.....	.....	4	.....	10	.....	ese.	.....	.....	.....	.....	cloudy.
S. S. Bulgarian, N. 49° 11′, W. 34° 52′*	29.32	744.7	.....	.....	.....	wnw.	.....	.....	8	.....	10	.....	nw.	9 h'r	9 h'r	high	nw.	
S. S. Virginian, N. 48° 20′ W. 32° 30′*	29.13	739.9	36	2.2	.....	n.	.....	.....	9	.....	10	.....	nw.	8 h'r	8 h'r	h'vy	cross	squally.
S. S. Archimedes, N. 13° 28′, W. 26° 53′	29.99	761.7	.....	.....	.....	ne.	.....	.....	5	.....	3	.....	ne.	o	o	long	ne.	fair.
S. S. Colorado, N. 29° 22′, W. 94° 31′†	30.05	763.3	60	15.6	.....	s.	.....	.....	2	.....	fg.	.....	.....	o	o	small	s.	foggy.
S. S. Rio Grande, N. 38° 09′, W. 74° 24†	29.99	761.7	47	8.3	.....	wsw.	.....	.....	3	.....	10	.....	sw.	4 h'r	4 h'r	sli't	.....	rain & snow
S. S. Chalmette, N. 37° 58′, W. 74° 30′†	30.07	763.8	45	7.2	.....	ssw.	.....	.....	4	.....	10	.....	.....	6 h'r	6 h'r	r'gh	se.	hazy.
S. S. New York, N. 27° 50′, W. 80° 05′†	30.29	769.4	70	21.1	.....	sse.	.....	.....	5	.....	5?	.....	s.	o	o	mod.	se.	cloudy?
S. S. Hermod, N. 48° 12′, W. 19° 00′†	29.12	739.6	50.0	10	.....	se.	.....	.....	6	.....	10	.....	sw.	4 h'r	4 h'r	r'gh	var.	threatening.
S. S. Alleghany, N. 41° —′, W. 71° 45′†	30.12	765.0	32	0.0	.....	ese.	.....	.....	7	.....	8	.....	s.	snow	snow	h'vy	se.	stormy.
S. S. Archimede, N 33° 23′, W. 32° 03′†	30.37	771.4	72	22.2	.....	wsw.	.....	.....	5	.....	6	.....	w.	o	o	rg'h	wnw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																	
S. S. Picqua, N. 36° 26′ W. 24° 00′			68	20.0		sw.			4		4	sw.	2 h'r	2 h'r	cross	w.	fair
S. S City of Merida, N. 29° 58′ W. 80° 25′†	30.29	769.4	77	25.0		s.			3		2	s.	1 h'r	1 h'r	mod.	e.	fine.
S. S. City of Washington, N. 19° 07′, W. 95° 18′†	30.18	766.6	80	26.7		e.			2		2	e.	0	0	sm'h		fine.
S. S. Santiago, N. 21° 58′, W. 80° 30′	30.13	765.3	76	24.4		se.			4		0		0	0	mod.	se.	fine.
S. S. Egypt, N. 44° 26′, W. 43° 06′*	30.07	763.8	24	— 4.4		nw.			7		10	nw.	10 h'r	10 h'r	h'vy	nw.	sleeting.
S. S. England, N. 50° 51′ W. 24° 38′	28.63	727.2				ese.			6		10	ese.	sq'lls	sq'lls	high	se.	squally.
S. S. The Queen, N. 49° 26′, W. 22° 50′			40	4.4		se.			6		10	se.	shr's	shr's	cross	var.	sleeting.
S. S. America, N. 47° 58′, W. 26° 05′*	29.02	737.1	44.0	6.7	88	wnw.			7–8		10	wnw.	2 h'r	2 h'r	h'vy	wnw.	squally.
S. S. Braunschweig, N. 25° 07′, W. 21° 34′	30.29	769.4	70.0	21.1	77	ene.			3		8	e.	0	0	light	ese	fair
S. S. Donau, N. 48° 22′. W. 29° 21′	28.95	735.3				w.			9–10		10	w.	24 h'r	24 h'r	h'vy	w.	stormy.
S. S. Hermann, N. 40° 59′, W. 62° 27′	30.43	772.9	39.2	4.0	83	ese.			4		8	ese.	1 h'r	1 h'r	4	ese.	cloudy.
S. S. Wesser, N. 52° 34′, E. 3° 23′	29.67	753.6				s.			6		10	s.	10 h'r	10 h'r	r'gh	s.	rainy.
S. S. Muriel, off Saba, Windward Island, W. I.*	30.11	764.8	77	25.0		ene.			6		5				r'gh	sne.	squally.
S. S. Belgenland, N. 47° 15′ W. 30° 40′ *†	29.12	739.6	36	2.2	?	w.			9		10	w	6 h'r	6 h'r	h'vy	wnw.	squally.
S. S. Nederland, N. 49° 01′ W. 30° 59′			35	1.7	80	nw.			7		10	wnw.	6 h'r	6 h'r	h'vy	wnw.	squally.
S. S. Rhynland, N. 50° 28′, W. 1° 30′	29.67	753.6	46	7.8	84	w.			6		7	w.	0	0	chop	w.	cloudy.
S. S. Switzerland, N. 40° 26′, W 68° 49′ †	30.02	762.5				se.			5		10	se.	8 h'r	8 h'r	mod.	se.	light rain.
S. S. Waesland, New York Harbor, N. Y	30.11	764.8	39	3.9		e.			3		10	e.	6 h'r	6 h'r	sm'h	e.	rain & fog.
S. S. Zeeland, Antwerp, Belgium *†	29.64	752.8	54	12.2		sse.			3		5?	s.	4 h'r	4 h'r	sm'h	s.	clear.?
S. S. P. Caland, N. 48° 38′, W. 30° 30′			39.2	4	90	nw.			9		10	wnw.			6	w.	squally.
S. S. Caracas, N. 26° 31′ W. 69° 34′†	30.42	772 7	74	23.3	76	ene.			5		1	ese.	0	0	mod.	ese.	fine.
S. S. Claudius, N. 16° 15′, W. 85° 40′ †	30.12	765.0	79.5	26.4	91	ene.			3		10		5 h'r	5 h'r	short	e.	rainy.
S. S. Valencia, Curacao, Venezuela†	30.06	763.5	80	26.7	78	ene.			6		4	ene.	1 h'r	1 h'r			fine.
S. S. State of Florida, Larne, Ireland	29.38	746.2	48	8.9		wsw.			3		1	sw.	6 h'r	6 h'r			clear.
S. S. State of Indiana, N. 41° 06′ W 66° 20′			40	4.4		se.			3		10	nw.	4 h'r	4 h'r	sm'h		heavy rain.
S. S. Romano, N. 47° 47′, W. 13° 49′*	29.62	752.3	47	8.3		wsw.			6		8	sw.	6 h'r	6 h'r	h'vy	w.	threatening
S. S. Salerno, Hull, Eng†	29.30	744.2	45	7.2		sw.			9		10	sw.	3 h'r	3 h'r	r'gh	se.	raining.
S. S. Brooklyn, N. 43° 57′, W 48° 13′*	30.10	764.5	30	— 1.1		w.			8			w.	4 h'r	4 h'r	h'vy	wnw.	cloudy.
S. S. Surrey. N. 44° 49′, W. 51° 37′†	30.42	772.7	17	— 8.3		w.			5				4 h'r	4 h'r	mod.	w.	cloudy.
S. S. Olbers, N. 47° 24′, W. 9° 07′*†	29.70	754.4	53	11.7		wsw.			6		7	var.	6 h'r	6 h'r	h'vy	var.	showery.
S. S. Plantyn, N. 49° 50′, W. 33° 07′									6		5	wnw.	12 h'r	12 h'r	cross	wnw.	
S. S. Catherine Whiting, Barnegat, N. J†	30.15	765.8	74	23.3		ne.			1			w.	0	0	long	e.	clear.
S. S. Norman, N. 41° 09′, W. 71° 33′*†	30.10	764.5				ese.			5			se.	4 h'r	4 h'r	r'gh	se.	cloudy.
S. S. Britannic, N. 40° 39′, W. 66° 50′†	30.02	762.5	50	10.0	93	sse.			6		10	s.	2 h'r	2 h'r	mod.	sw.	threatening.
S. S. Celtic, N. 50° 40′, W. 20° 50′†	29.12	739.6	45	7.2		sse.			7		10	s.	hail	hail	cf'd	var.	overcast.
S. S. Iowa, N. 42° 16′, W. 68° 41′*†	30.30	769.6	30	— 1.1		e.			4		10	e.	3 h'r	3 h'r	mod.	e.	snowing.
S. S. Chanois, N. 31° 12′, W 26° 32′	30.38	771.6	68.5	20.3	50	wsw.			5		9						d clouds.
Bk. Commewyne, N. 46° 46′, W. 11° 59′*	29.69	754.1	52.6	11.4	73	sw.			6		9						d. clouds.
S. S. City of Agra, N. 15° 32′, W. 42° 46′	30.20	767.1	75	23.9	86	ene.			6		7						misty.
S. S. Antonio Lopez, San Juan, Porto Rico, W. I.	30.22	767.6	76.5	24.7	82	e.			5		4		1 h'r	1 h'r	r'gh	e.	fair.
Schr. Abbie H. Gheen, Hampton Roads, Va†	30.16	766.1	38	3.3		sw.			2								foggy.
Bg. Abbie Clifford, Cardenas, Cuba, W. I†	30.17	766.3	71	21.7		e.			1		2	var.	0	0			fair.
Bk. Aquidneck, N. 33° 55′, W. 55° 20′*†	30.60	777.2				var.			2			se.	1 h'r	1 h'r	light	n.	cloudy.
Bg. Alcira, Maracaybo, Venezuela, S. A.	29.97	761.2	80	26.7		ene.			2		2	ne.	0	0			clear.
Schr. Anna A. Holton, Tampico, Mexico†	30.03	762 7	75	23.9		sw.			1		10	sw.	0	0	sm'h		foggy.
Schr. Annie R Lewis, St. Pierre, Martinique, W. I†.	30.18	766.6	80	26.7		ese.			2		2	ene.	5 h'r	5 h'r			clear.
Bk. Anna Thormann, N. 8° 03′ W. 33° 54′*	30.07	763.8	74.7	23.7	91	nne.			6		8kn	ne.	0	0	r'gh	nne.	misty.
Bk. Aureola, Swansea, Wales			51	10.6		wsw.			3		3	w.	6 h'r	6 h'r			fair.
Bk. Achille F, N. 50° — W. 13° —*†	29.47	748.5	44.5	6.9	80	sw.			7		8	wsw.	8 h'r	8 h'r	h'vy	sw.	
S. Armenia, N. 19° 10′, W. 35° 35 *	30.17	766.3	72	22.2	80	ene.			5		1	ene.	0	0	cross	var.	clear.
S. S. Burswell, Holyhead, Eng*†	29.64	752.8				ssw.			3		10	ssw.	8 h'r	8 h'r	sm'h		threatening.
Bk. Bremen, N. 36° 40′, W. 74° 10′ *	30.13	765.3				ssw.			6		10		10 h'r	10 h'r	cross	var.	hazy.
S. S. Benledi, N. 44° 30′, W 30° 00′*	29.35	745.5				w.			6–8		6	wnw.	6 h'r	6 h'r	h'vy	wnw.	snowing.
Bkt. Bonny Doon, N. 35° 00′, W. 71° 52′*†	30.20	767.1				s.			3		2	sw.	0	0	mod.	n.	clear.
Bk. Bare, N. 19° 18′, W. 32° 45′			75	23.9		e.			5		5?		0	0	mod.	ene.	cloudy?
Bk. Pilgrim, N. 32° 16′, W. 46° 45′*†	30.35	770.9				nw.			4		3	nw,	0	0	mod.	nw.	fair.
Bk. Champion, N. 43° 06′, W. 35° 40′ †	29.02	752.3	54	12.2		wnw			9		10	wnw.	24 h'r	24 h'r	cross	wnw.	
Bkt. C. S. Bushnell, Gibraltar, Mediterranean	30.32	770.1				w.			3		1	w.	0	0	mod.	w.	fine
S. Cornelius, N. 57° 33′, W. 22° 54′†	28.70	729.0	35.4	1.9		var.			6–9		10	w.	11 h'r	11 h'r	h'vy	w.	squally.
Bk. Commerce, Cadiz, Spain†	30.23	767.8	61	16.1		calm			0		0		0	0			fine.
Bk. Ceres, N. 11° 32′, W. 27° 32′*	30.08	764.0	74.1	23.4	69	ene.			6		2	s.	0	0			hazy.
Bk. Chas. Stewart, N. 29° 18′, W. 40° 25′†	30.59	777.0	72	22.2		nnw.			2		7	nw.	0	0	large	nw.	
Schr. Edith R. Seward, Palenque, Hayti, W. I†	30.16	766.1	78	25.6		nne.			2		3	ne.	½h'r	½h'r	sm'h	ese.	clear.
S. E. J. Spicer, N. 41° 32′, W. 25° 55′	29.64	752.8	57	13.9	93	w.			6		10	w.	4 h'r	4 h'r	long	nw.	raining.
Bk. E. D. Bigelow, Saint Michael, Azores Islands *†	29.90	759.4				wsw.			8		8	wsw.	0	0			squally.
Schr. F. E. McDonald, Mayport, Florida†	30.08	764.0				calm			0				0	0			
S. S. Festolio, N. 51° 13′, E. 1° 27′†	29.73	755.1				wsw.			6		8	wsw.	9 h'r	9 h'r			cloudy.
S. Festina Lente, N. 57° 30′, W. 21° 40′	28.82	732.0	33	0.6		sw.			8		9	sw.	10 h'r	10 h'r	h'vy	var.	
Bk. Grey Eagle, N. 28° 56′, W. 70° 30′*†	30.30	769.6				se.			4		0		0	0	light	se.	clear.
Bg. Gipsey Queen, N. 19° 40′, W. 69° 05′ *†	30.15	765.8	77	25.0		e.			7		2	e.			long	ene.	blue sky.
Bg. George, N. 33° 36′, W. 72° 15′*†	30.39	771.9				s.			5		8	ssw.	0	0	cross	var.	cloudy.
Bk. Galeon, Cardiff Roads, Eng			46	7.8		n.			6		5						
Bk. Heinrich & Tonio, N. 36° 31′, W. 73° 30′†	30.15	765.8	59	15.0		sw.			5		6	sw.	4 h'r	4 h'r	mod.	var.	hazy.
Schr. Hattie Weston, Mayro, Trinidad, W. I *†	30.12	765.0	79	26.1		ene.			4		10	ene.	e	o	mod.	e.	cloudy.
Bk. Hattie G. McFarland, Pascagoula, Miss*†	30.20	767.1	66	18.9		ese			1		2	e.	0	0			clear.
Bk. Horace Scudder N. 24° 33′. W. 43° 21′*†	30.45	773.4	70	21.1		ene.			6		9	ssw.	0	0	long	e.	cloudy.
Schr. Isabel Alberto, N. 35° 38′, W. 75° 00′†	30.20	767.1				ssw.			2		5	w.	shr's	shr's	cross	var.	foggy.
S. S. J. W. Wilson, Sotto de la Marina, Mex*†	29.95	760.7	60	15.6		w.			1		fg.		0	0			foggy.
Schr. John L. Thomas, N. 23° 00′ W. 84° 39 *†	30.20	767.1				e.			3		1	ese.	0	0	short	ene.	clear.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe*†	30.16	766.1				calm			0		7	e.	1 h'r	1 h'r			
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3				se.			1		3	e.	0	0			fine.
Bg. Mary A. Troop, Sharpness Point, Eng*†	29.52	749.8				wnw.			8		3	wnw.	10 h'r	10 h'r			fair.
Schr. Minnie A. Bonsall, Mayport, Fla†	30.32	770.1	69	20.6		calm			0		fg.	calm	0	0			foggy.
Bk. Matilda C. Smith off Isle Wight, Eng†	29.81	757.2				w.			7		5	w.	0	0	r'gh	w.	clearing.
Bkt. Myrtle, Saint Thomas, W. I						ene.			5		5?	ene.	4 h'r	4 h'r			cloudy?
S. M. P. Grace, N. 25° 34′, W. 43° 41′*	30.38	771.6	70	21.1		ene.			4		8	ne.	slf't	slf't	sm'h	ene.	
S. S. Mendoza, N. 37° 04′, W. 05° 00′						nne.			4		8	se.	0	0	mod.		cloudy.
Bkt. Norena, Matanzas, Cuba, W. I *†	30.21	767.3				e.			1		0		0	0			clear.
Schr. Ocean Traveler, N. 20° 17′, W. 67° 20′ †	30.12	765.0				ene.			6		5						squally.
Bk. Ottawa, Torrevieja Road, Spain*	30.16	766.1	70	21.1		nw.			1		0		0	0			clear.
Schr. Pearl Nelson, N. 29° 15′, W. 74° —*†	30.22	767.6				e.			4				0	0			fine.
Bk. Reindeer, N. 14° 05′ W. 61° 12′*	30.06	763.5				ene.			6			ene.					squally.
S. Rudolph, N. 29° 26′ W. 32° 15′			73.0	22.8		sw.			2		6	nw.	0	0	mod	wnw.	fair.
Bk. Saga, N. 48° 12′, W. 17° 00′						sse.			5						6-8	wnw.	rainin.g.
Bk. Sunbeam, N. 37° 28′, W. 17° 50′	30.14	765.5	62	16.7	88	sw.			7		5	wsw.	0	0	h'vy	wnw.	fair.
Bk. Scud, N. 16° 02′, W. 62° 41′*†	30.10	764.5				ene.			6		1	ene.	0	0	short	ene.	fine.
Schr. S. B. Hubbard, N. 33° 16′, W. 76° 14′*†	30.22	767.6	68	20.0		s.			5			s.	rain	rain	r'gh	ese.	fine.
Bk. Usko, N. 47° 30′, W. 9° 38′*†	29.74	755.4				sw.			6		3	ssw.	2 h'r	2 h'r	cross	sw.	fair.
S. Vincenzo Accame, N. 37° 31′, W. 60° 20′*†	30.59	770.9	59.0	15		se.			3		4		0	0	r'gh	nnw.	clear.
Schr. Wm. Wiler, Pointe a Pitre, Guadeloupe, W I†	30.06	763.5				e.			1		5	ese.	2 h'r	2 h'r			fine.
S. Wm. Woodbury, N. 62° 53′, W. 11° 14′	28.87	733.3	45	7.2		sse.			10		10	sse.			high	s.	cloudy.
S. S. Colon, N. 38° 00′, W. 73° 56′ †	30.10	764.5	42	5.6		wsw.			3		10	se.	ltigh	light	small	sw.	overcast.
S. S. Ambrose, N. 9° 47′, W. 54° 04′†	30.10	764.5	78	25.6		e.			6		9	e.	2 h'r	2 h'r	7	e.	overcast.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2—South Atlantic.																		
H. M. S Heroine, S. 36° 35′, W. 55° 10′	29.76	755.9	71	21.7	85	n.			5		4	s.				sm'h		misty.
H. M. S. Starling, S. 5° 15′ E. 3° 04′	29.98	761.5	81	27.2	93	ssw.			1		1	ssw.				1	ese.	blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay*	29.77	756.1	71	21.7	90	n.	14	6.3			10		calm	0	0			cloudy.
U. S. S. Galena, Montevideo, Uruguay*	29.78	756.4	71	21.7	80	nnw.			4		10		ne.			sm'h		cloudy.
S. S. Grecian, S. 32° 48′, W. 51° 13′*	29.81	757.2	72	22.2	90	s.			1		1		sse.	2 h'r	2 h'r	light	s.	clear.
S. S. Hevelius, Buenos Ayres, La Plata†	29.92	760.0	76	24.4		sw.			4		9		ssw.	0	0			cloudy.
S. S. Ptolemy, S. 4° 20′, W. 35° 04′	30.00	762.0	80.4	26.9	93	ese.			6	0	4 k			0	0	3	ne.	d clouds.
S. S. Auckland, S. 3° 21′, W. 25° 05′	30.01	762.2	80	26.7	74	ese.			4		3							blue sky.
Bk. May Hulse, S. 52° 17′ W. 64° 19′	29.69	754.1	50	10.0	67	w.			4		3							d. clouds.
Bg. Annie R. Storer, S. 3° 18′, W. 36° 20′*†	30.21	767.3				se.			4		2		se.	0	0	long	n.	clear.
Bk. Edmund Phiney, S. 53° 10′, W. 63° 36′ †	29.72	754.9	52	11.1		w.			4		3			0	0	mod	w.	fair.
Bk. E. L. Pettingill, S. 31° 50′, W. 35° 10′	30.10	764.5	70	21.1		ne.			5		10		n.	light	light	mod.	ne.	light rain.
S. E. B. Sutton, S. 17° 40′, W. 35° 00†	30.16	766.1	82.5	28.1	75	ne.			3		1		ne.	½ h'r	½ h'r	sm'h	ene.	clear.
S. Grecian, S. 12° 02′, W. 31° 48′†	30.09	764.3	80	26.7	78	ese.			5		1		ese.	0	0	sm'h		clear.
S. George Stetson, S. 54° —′, W. 62° —′ *†	29.70	754.4	49	9.4	78	nw.			5		2		nw.	0	0		w.	clear.
Bkt. Josephine, S. 36° 01′, E. 18° 20′ †	29.99	761.7	74	23.3	68	w.			2		0			0	0	long	ssw.	clear.
S. Titan, S. 27° 35′, W. 43° 59′*†	29.94	760.5	82	27.8	91	w.			3		1		nw.	0	0	sm'h	n.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay †	29.86	758.4	72	22.2		n.			6		7		n	0	0			fair.
S. Sacramento. S. 44° 08′, E. 15° 45′ *†	30.00	762.0	53	11.7	86	ne.			5		7		ne.	0	0	mod.	sw.	fair.
District No. 3—North Pacific.																		
S. S. Mexico, N. 23° 06′, W. 110° 09′†	30.00	762.0	62	16.7	77	nw.			3		1		nw.			mod.	w.	clear.
S. S. Arabic, N. 27° 28′, E. 126° 01′*†	30.22	767.6	54	12.2	93	nne.			4		2?		ne.	0	0	sm'h		cloudy.
S. S. Belgic, N. 27° 28′, E. 125° 20′*†	30.14	765.5	59	15.0	70	nne.			5		8			0	0	mod	ne.	cloudy.
S. S. Coptic, N. 38° 00′ W. 125° 00′	30.14	765.5	45.5	7.5	53	calm			0		0			0	0	sm'h		clear.
S. S. Gaelic, N. 44° 44′, E. 165° 57′	30.28	769.1	39	3.9	91	var.			1		4		wnw.	0	0		ese.	fair.
S. S. Oceanic, N. 33° 00′, E. 172° 45′*	30.09	764.3	63	17.2	83	ene.			2		6		e.			light	ene.	cloudy.
S. S. Oregon, N. 43° 46′, W. 124° 33′†	30.08	764.0	40	4.4	56	calm			0		0							clear.
S. S. Mississippi, Seattle, Wash. Ter †	29.90	759.4	36	2.2	61	sse.			4		10		s.					cloudy.
S. S. Willamette, Seattle, Wash. Ter †	29.93	760.2	33	0.6	80	ese.			3		9		se.	snow	snow			cloudy.
S. S. Ancon, N. 37° 20′, W. 122° 30′ †	30.00	763.5	46	7.8	69	nw.			3		10		nw.			sm'h		cloudy.
S. S. City of Chester, Off Point Arenas, Cal *†	30.12	765.0	44	6.7	52	se.			4		0			0	0	sm'h		clear.
S. S. Dakota, N. 46° 18′, W. 124° 25′ †*	29.93	760.2	44	6.7	68	se.			5		8		s.	4 h'r	4 h'r	mod.	s.	cloudy.
S. S. G. W. Elder, N. 39° 40′, W. 124° 20′ †	30.22	767.6	44	6.7	100	n.			2		0					sm'h		clear.
S. S. Orizaba, N. 35° 10′, W. 120° 43′*†	30.10	764.5	45	7.2	61	calm			0					0	0	sm'h	n.	cloudy.
S. S. State of California, N. 41° 00′, W. 124° 30′†	30.16	766.1	43	6.1	67	e.			3		10		se.			sm'h	w.	cloudy.
S. S. City of Pekin, Hong Kong, China †	30.10	764.5	58	14.4	82	e.			3		8		ne.					cloudy.
S. S. City of Tokio, N. 34° 41′, W. 147° 30′†	30.24	768.1	57	13.9	87	nne.			5		2		n.	light	light	h'vy	n.	squally.
S. S. City of Rio de Janeiro, Panama, Panama			75	23.9	100	nnw.			1		1		nnw.	0	0			fine.
S. S. Colima, N. 15° 58′ W. 95° 03′†	29.94	760.5	76	24.4	95	nne.			6		0			0	0	r'gh	n.	clear.
S. S. Granada, N. 17° 46′, W. 102° 19′ †	29.87	758.7	77	25.0	91	nw.			1		0			0	0	sm'h	w.	clear.
S. S. Zealandia, N. 4° 37′, W. 161° 02′	29.87	758.7	76	24.4	77	var.			1		0							raining.
H. M. S Curacoa, Yokohama, Japan	30.32	770.1	34.5	1.4		nw.			1		10					sm'h		d. clouds.
H. M. S. Himalaya, N. 3° 20′, E. 100° 46′	29.90	759.4	83	28.3	87	s.			1		10							d. clouds.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.85	758.2	68	20.0		calm			1		5							raining.
U. S. Naval Hospital, Yokohama, Japan*	30.39	771.9	36	2.2	61	calm			0		10							threatening.
U. S. S. Independence, Mare Island, Cal	30.17	766.3	34	1.1	100	sw.			0		10		w.	0	0			clear.
U. S. S. Lackawanna, Honolulu Sandwich, Islands*	29.82	757.4	73	22.8	72	e.			1		0			0	0			cloudy.
U. S. S. Monocacy, Amoy, China	30.15	765.8	54	12.2	74	ne.			2		10							cloudy.
U. S. S. Palos, Tientsin, China*	30.27	768.8	30	— 1.1	100	s.			2		10		ne.					cloudy.
U. S. S. Ranger, N. 36° 33′, W. 122° 00′	30.13	765.3	50	10.0	65	nnw.			1		8		calm					fair.
U. S. S. Richmond, Hong-Kong, China *	30.04	763.0	58	14.4	88	e.			2		10			0	0	sm'h		cloudy.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.91	759.7	69	20.6	90	ene.			2		10		e.	0	0			cloudy.
S. S. Scotia, N. 2° 25′, E. 104° 48′	29.92	760.0	78.3	25.7	82	n.			2		8		ene.			sm'h		cloudy.
S. Henry Failing, N. 44° 34′ W. 126° 20′ †	30.15	765.8	41	5.0		ssw.			5		7							d. clouds.
S. St. Francis, N. 26° 28′, W. 125° 35′†	30.16	766.1	65	18.3		ssw.			6		8		s.	sleet	sleet	cross	se.	squally
Tamega, Macao, China	30.15	765.8	59.0	15.0	78	nne.			2		5?		e.	4 h'r	4 h'r	sm'h	e.	cloudy?
District No. 4—South Pacific.									3		10			0	0			overcast.
H. M. S. Comus, Callao, Peru	29.89	759.2	70	21.1	95	sse.			2		5		ese.			3		misty.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	30.24	768.1	71.3	21.8	85	calm			0		8					sm'h		misty.
H. M. S. Liffey, S 29° 56′, W. 71° 20′	29.82	757.4	63	17.2		nne.			3							3	nne.	d. clouds.
H. M. S. Rocket, S. 48° 00′, W. 74° 20′	29.97	761.2	56	13.3	100	n.			4		10	nne.		0	0	sm'h		overcast.
H. M. S. Swiftsure, S. 0° 15′, W. 101° 45′	29.93	760.2	76	24.4	100	ssw.			2		10	se.						overcast.
H. M. S. Sylvia, Anna Id, Patagonia	29.55	750.6	56.2	13.4	86	nw			3–5		10							raining.
U. S. S. Essex, Callao, Peru	29.89	759.2	70	21.1	90	calm			0		5		se.					fair.
U. S. S. Iroquois, S. 28° 00′, W. 96° 28′	30.06	763.5	69	20.6	80	se.			2		5?		se.			long	s.	clear ?
U. S. S. Onward, Callao, Peru*†	30.00	762.0	68	20.0	95	calm			0		8		n.					cloudy.
U. S. S. Pensacola. Callao, Peru*	29.84	757.9	67	19.4	95	calm			0		8			0	0			misty.
British Merchant, S. 20° 28′, W. 128° 34′	29.93	760.2	78.6	25.9	84	ese			4		3							d. clouds.
Bk. Childwall, S. 9° 03′. W. 134° 00′*	29.87	758.7	79	26.1		e			4		4		e.	0	0	light	e	fine.
Bk. Gronsvaer, Auckland, New Zealand†	30.21	767.3	75.9	24.4		var.			2		5		sw.	¼ h'r	¼ h'r			fair.
S. S. Australia, Sydney, N. S. W*	29.48	748.8	73	22.8	85	ne.			3		10		ne.	4 h'r	4 h'r			showery
S. S City of Sydney, Sydney, N. S. W†	29.73	755.1	80	26.7	78	w.			3		10		nw.	0	0			cloudy.
H. M. S. Gannet, S. 14° 25′, W. 76° 40′	29.88	758.9	69	20.6	95	s.			3		10	s.				2	s.	foggy.
Bk. Warden Law, S. 25° 00′, W. 81° 40′ *	30.26	768.6				se.			4		10		sse.	0	0	sm'h	sse.	covered.
S. Sovereign of the Seas, S. 49° 58′, W. 98° 23′*†	29.60	751.8	51	10.6	93	wsw.			6		4		wsw.	2 h'r	2 h'r	high	wsw.	squally.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 5° 10′ E. 41° 50′	29.92	760.0	82	27.8		nnw.			3–4		8	nne.				4	nne.	d. clouds.
H. M. S. Eclipse, N. 27° 23′ E. 51° 49′	30.07	763.8	64	17.8		wnw.			1		1	wsw.				1	wsw.	blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.87	758.7	84	28.9		ne.			2		5	wnw.				3	nne.	d. clouds.
H. M. S. Woodlark, Bushire, Persia	30.12	765.0	62.5	16.9	78	nw.			4		8					2	nw.	d. clouds.
S. S. Galatia, N. 28° 42′, E. 32° 57′†	30.01	762.2	73	22.8	59	nw.			5		0			0	0		se.	clear.
Bk. Essex, S. 33° 50′, E. 28° 15′*†	30.03	762.7	81	27.2		ene.			2		2		ssw.	0	0	long	ssw.	fine.

International Chart I. February 11, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B.Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 12, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mil.	Inch.	Mil.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mil.		
Algerian.																			
Nemours	.....	.....	30.26	768.6	60.4	15.8	83	n.	.....	.....	1	.....	2	.....	.....	0	0	fair	Malaterre.
Algiers	.....	.....	30.27	768.9	61.9	16.6	51	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	Thève.
La Calle	.....	.....	30.21	767.2	60.8	16.0	69	w.	.....	.....	1	.....	3	.....	.....	0.157	4.0	pretty fair	Fonfrède.
Tunis	.....	.....	30.23	767.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.26	768.7	68.4	20.2	74	e.	.....	.....	2	.....	0	.....	.....	0	0	clear	Pérès.
Tebessa	.....	.....	30.28	769.0	53.6	12.0	56	wnw.	.....	.....	1	.....	0	.....	.....	inap.	inap.	clear	Dognon.
Geriville	.....	.....	.....	.....	63.0	17.2	15	wsw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Forfert.
Laghouat	.....	.....	30.29	769.4	62.6	17.0	25	s.	.....	.....	4	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.30	769.7	65.5	18.6	16	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.68	753.9	29.77	756.1	64.3	17.9	93	ssw.	15	6.7	.....	.....	10	.....	.....	0	0	threatening	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.76	756.0	30.34	770.7	37.4	3.0	92	w.	.....	.....	2	.....	10	.....	.....	0.012	0.3	.....	Prof. Ivan Stezir.
Oracow, I. R Observatory	29.52	749.7	30.32	770.0	38.5	3.6	80	wsw.	0.7	0.3	.....	.....	6	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.39	746.5	30.32	770.0	33.8	1.0	62	calm	.....	.....	0	1 cs	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.04	737.7	30.35	770.8	36.7	2.6	73	s.	.....	.....	1	.....	10	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.81	731.7	30.34	770.6	30.6	— 0.8	71	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.82	732.1	30.22	767.6	36.9	2.6	94	ne.	.....	.....	2	.....	10	.....	.....	0	0	gloomy	The Staff.
Lemberg	29.31	744.5	30.37	771.4	26.2	— 3.2	67	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.79	680.5	30.25	768.3	39.7	4.3	48	calm	.....	.....	0	.....	8	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.15	765.8	30.26	768.7	48.6	9.2	75	e.	.....	.....	1	.....	10	.....	.....	0.346	8.8	.....	I. R. Hydrographic Office.
Szathmar	29.78	756.4	30.24	768.1	39.9	4.4	66	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	Joseph Midlinszay, S. J.
Szegedin	30.00	762.0	30.29	769.4	39.2	4.0	52	n.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Karl Stancel.
Trieste	30.15	765.8	30.25	768.3	49.1	9.5	62	ne.	.....	.....	1	.....	10	.....	.....	0.047	1.2	.....	Royal Academy.
Vienna	29.61	752.0	30.30	771.2	33.8	1.0	81	calm	.....	.....	0	.....	9	.....	.....	0.028	0.7	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	28.99	736.3	29.09	738.9	44.4	6.9	84	se.	44	19.7	.....	.....	10	.....	.....	0.175	4.4	raining	W. Boswell
Armagh, Observatory	28.70	729.0	28.93	734.8	44.2	6.8	75	s.	22	9.8	.....	.....	7	.....	.....	.....	.....	squally	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.10	739.1	47.0	8.3	85	sse.	31	13.9	.....	.....	10	.....	.....	.....	.....	raining	John Hartnup.
Bolton, Sharples	28.64	727.4	29.17	740.9	45.6	7.6	83	s.	30	13.4	.....	.....	10	.....	.....	.....	.....	squally	Thomas Mackereth.
Bradford, Yorkshire	28.82	732.0	29.22	742.2	45.6	7.6	82	se.	.....	.....	3	.....	10	.....	.....	0.04	1.0	overcast	McLandsborough&Preston.
Bridgetown, Barbadoes	30.03	762.7	30.06	763.5	81.0	27.2	70	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Corpl.J.Surgenor, A.H.C
Cardington	29.35	745.5	29.45	748.0	46.0	7.8	77	s.	.....	.....	7.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.41	747.0	29.54	750.3	47.9	8.8	66	s.	.....	.....	6	.....	10	.....	.....	blank	blank	misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.04	737.6	29.20	743.2	47.1	8.4	83	sw.	.....	.....	4	.....	6	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.50	698.5	29.73	755.1	87.0	30.6	55	e.	.....	.....	2	.....	3	.....	.....	.....	.....	blue sky	Corpl. F. Milner, A. H. C.
Freetown	29.63	752.6	29.86	758.4	80.0	30.0	91	n.	.....	.....	1	.....	4	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	28.70	730.5	28.80	731.5	44	6.7	67	s.	.....	.....	7	.....	2	.....	.....	0.37	9.4	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.19	766.8	30.24	768.1	56.8	13.8	93	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	gloomy	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	28.75	730.2	28.96	735.6	44.6	6.7	85	ssw.	.....	.....	7	.....	10	.....	.....	.....	.....	raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.33	745.0	29.51	749.5	46.9	8.3	69	sse.	.....	.....	5	.....	10	.....	.....	.....	.....	raining	The Staff.
Guernsey	29.12	739.6	29.41	747.0	49	9.4	85	sse.	.....	.....	6	.....	10	.....	.....	.....	.....	overcast	A. Collenette, F. M. S.
Kew, Observatory	29.45	748.0	29.49	749.0	46.0	7.8	77	s.	32	14.3	.....	.....	10	.....	.....	.....	.....	overcast	The Staff.
Leicester, Museum	29.08	738.6	29.34	745.2	46.2	7.9	76	sw.	.....	.....	5	.....	10	.....	.....	blank	blank	overcast	J. C. Smith.
Malta, Mediterranean	30.05	763.3	30.13	765.3	56.6	13.7	93	ne.	.....	.....	2	.....	9	.....	.....	0.42	10.7	overcast	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.21	767.3	30.25	768.3	73.5	23.1	85	se.	.....	.....	1	.....	7	.....	.....	.....	.....	d. clouds	C. S. Duncombe
Oscott, St. Mary's College	28.75	730.2	29.27	743.4	43.8	6.6	88	ssw.	.....	.....	7	.....	10	.....	.....	.....	.....	raining	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.16	740.7	29.39	746.5	45.9	7.7	86	sse.	.....	.....	6	.....	10	.....	.....	.....	.....	showery	The Staff.
Plymouth	29.19	741.4	29.26	743.2	48.8	9.3	94	sw.	.....	.....	5	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	28.81	731.8	28.91	734.3	43.4	6.3	91	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	raining	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.08	764.0	30.10	766.1	30.4	— 0.9	94	nnw.	.....	.....	3	.....	10	.....	.....	.....	.....	light snow	W. H. Lyne.
Sheffield	28.99	736.3	29.27	743.4	46.1	7.8	83	ssw.	.....	.....	6	.....	10	.....	.....	0.18	4.6	squally	W. F. Cooper.
Silloth Rectory	28.98	736.1	29.02	737.1	47.4	8.6	77	s.	.....	.....	6	.....	10	.....	.....	0.215	5.5	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.17	740.9	45.4	7.4	80	s.	48	21.5	.....	.....	10	.....	.....	.....	.....	raining	Rev. S. J. Perry.
Strathfeld Turgiss	29.23	742.4	29.44	747.8	45.6	7.6	89	se.	.....	.....	3-4	.....	10	.....	.....	.....	.....	raining	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.27	743.4	29.32	744.7	50	10.0	86	sw.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	28.81	731.8	28.84	732.5	44.4	6.9	55	s.	62	27.8	.....	.....	7	.....	.....	blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.79	756.7	30.18	766.6	55.4	13.0	88	w.	1.2	0.5	.....	.....	10 n	.....	w.	0.348	8.8	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	— 2	—18.4	.....	calm	0	0	.....	1 ck	0	.....	.....	0.400	10.2	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.52	749 8	29.57	751.1	18	— 7.8	100	ne.	1	0.4	.....	.....	10 n	.....	calm	0.305	7.8	light snow	H. J. Cundall, C. E.
Chatham, N. B*	29.00	751.8	29.07	753.6	16	— 8.9	100	ne.	1	0.4	.....	.....	10 n	.....	ne.	0.43	10.9	light snow	G. A. Blair.
Cornwall	29.87	758.7	30.08	764.0	9.8	—12.3	90	nw.	.....	.....	0	0	0	.....	.....	0.150	3.8	blue sky	Jas. Smith, M. A.
Dalhousie	29.69	754.1	29.74	755.4	10.5	—11.9	.....	calm	.....	.....	2	.....	10 s	.....	.....	0.200	5.1	overcast	H. A. Johnson.
Father Point, Quebec*	29.81	757.2	29.83	757 7	11	—11.7	91	ne.	12	5.4	.....	.....	10 n	.....	.....	0.01	0.3	light snow	J. McWilliams.
Fort Garry, Manitoba*	29.23	742.4	30.17	766.3	— 4	—20.0	65	sw.	17	7.6	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton	29.61	752.1	29.68	753.9	16.1	— 8.8	98	nw.	3	1.3	.....	.....	10 n	.....	.....	0.290	7.4	snowing	Prof. Harrison, L. L. D.
Granton	29.25	742.9	30.48	774.2	8.7	—12.9	96	w.	2	0.9	.....	0	0	.....	.....	0.100	2.5	blue sky	Jas. Grant.
Halifax, N. S*	29.40	746.7	29.53	750.0	24	— 4.4	96	n.	6	2.7	.....	.....	10 n	.....	.....	0.280	7.1	heavy snow	A. Allison.
Hamilton	30.06	763 5	30 47	773.9	17.2	— 8.2	94	sw.	.....	.....	2	0	0	.....	.....	0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.94	760.5	30.30	769.6	13	—10.6	83	nw.	3	1.3	.....	0	0	.....	.....	0.03	0.8	clear	A. P. Knight, M. A
Montreal, Quebec*	29.90	759.4	30.13	765.3	12	—11.1	87	nw.	12	5.4	.....	0	0	.....	.....	0.00	1.5	clear	C. H. McLeod, C. E.
Ottawa	29.95	760.7	30.22	767.6	8.7	—12.9	83	sw.	.....	.....	2	0	0	.....	.....	0.20	5.1	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.64	752.8	30.43	772.9	— 4	—20.0	58	calm	0	0	.....	0	2 ks	.....	.....	0.13	3.3	fair	Rev. R. Mosley.
Peterboro	29.57	751.1	30.40	772.1	10.7	—11.8	79	e.	.....	.....	2	0	0	.....	.....	0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.67	753.6	30.43	772.9	15	— 9.4	100	w.	3	1.3	.....	0	0	.....	.....	0.02	0.5	clear	H. Morgan.
Port Stanley, Ontario	29.75	755.6	30.47	773.9	12	—11.1	96	w.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	M. Payne.
Quebec, Quebec*	29.57	751.1	29.92	760.0	14	—10.0	83	nw.	.....	.....	1	2 c	0	.....	.....	0.45	11.4	clear	Capt. Ashe, R. N
Rockliffe, Ontario*	29.77	756.1	30.28	769.1	2	—16.7	91	nw.	5	2.2	.....	0	5 cs	.....	nw.	0.10	2.5	fair	W. H. McIntyre.
Saugeen, Ontario*	29.03	752.6	30.41	772.4	14	—10.0	96	n.	5	2.2	.....	2 cs	0	.....	.....	0.20	5.1	clear	
St. Andrews, N. B	29.55	750.6	29.66	751.8	24	— 4.4	93	nnw.	3	1.3	.....	5 k	hz.	nw.	.....	0.90	22.9	cloudy	
St. John, N. B	29.45	748.0	29.62	752.3	22	— 5.6	100	n.	5	2.2	.....	.....	10 n	.....	.....	0.220	5.6	light snow	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.57	751.1	19.4	— 7.0	.....	ne.	.....	.....	0	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	29.07	738.4	30.49	774.4	8.1	—13.3	89	w.	3	1.3	.....	0	7 s	.....	.....	0.150	3.8	d. clouds	C. J. Macgregor, M. A.
Sydney, C. B*	29.49	749.0	29.56	750.8	22	— 5.6	84	ne.	5	2.2	.....	.....	10 n	.....	.....	0.12	3.0	light snow	T. C. Hill, C. E.
Toronto, Ontario*	29.99	761.7	30.42	772.7	14	—10.0	87	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	Magnetic Observatory.
Windsor	29.44	747.8	29.54	750.3	20.0	— 6.7	100	s.	4	1.8	.....	.....	10 n	.....	.....	.....	.....	snowing	Prof. W. H. Butler, M.A
Woodstock	29.30	744.2	30.48	774.2	16.9	—11.7	96	sw.	1.5	0.7	.....	0	0	.....	.....	0.15	3.8	hazy	Prof. Wolverton, M.A.
Yarmouth, N.S*	29.50	749.3	29.57	751.1	32	0.0	92	nw.	18	8.0	.....	.....	8 k	.....	nw.	0.34	8.6	fair	Lt. F. E. Wilmot, R.N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
Cape Colony.																			
Cape St. Francis Lt. House	29.72	754.9	29.75	755.6	72.0	22.2	84	wsw.	12.7	5.7	.....	0	3 k	.....	.....	0	0	hazy	**John Duthie.**
Springbok Fontein	27.88	708.1	.....	.....	72	22.2	76	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**J. T. Eustace.**
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.45	621.0	.....	.....	26.1	— 3 3	.....	calm	.....	.....	0	.....	8	.....	.....	.....	.....	foggy.....	
Tchang-kia-tchouang	30.36	771.1	30.47	773.9	35.6	2.0	93	ne.	.....	.....	2	.....	10	.....	.....	0	0	covered	**R. P. Desurmont, S.J.**
Zi-Ka-Wei, near Shanghai	30.34	770.5	30.36	771.1	44.8	7.1	83	e.	26.8	12.0	.....	.....	10	.....	.....	0	0	covered	**M. Marc Dechevrens, S.J.**
Danish.																			
Copenhagen	30.07	763.7	30.11	764.9	38.3	3.5	83	sse.	11	5	.....	.....	2	.....	.....	.....	.....	.....	**Oversergent Fischer.**
Fanoe	29.93	760.3	29.95	760.8	41.2	5.1	83	s.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	29.18	741.2	29.22	742.3	— 1.1	—18.4	100	nw.	.....	.....	1-2	.....	10	.....	.....	.....	.....	.....	**S. Kleinschmidt.**
Ivigtut, Greenland	29.07	738.3	29.09	738.8	1.0	—17.2	.....	calm	.....	.....	0	.....	3	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.18	741.1	29.22	742.3	— 9.8	—23.2	.....	calm	.....	.....	0	.....	1	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.74	730.1	28.79	731.2	31.6	— 0.2	87	se.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	**A. O. Thorlacius.**
Thorshavn	28.86	733.1	28.90	734.0	42.8	6.0	78	se.	40	18	.....	.....	10	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Vestervig	29.84	757.8	29.93	760.1	38.8	3.8	93	se.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	**Loerer Oesterbol.**
Upernavik, Greenland	29.22	742.2	29.27	743.4	— 3.3	—19.6	.....	e.	.....	.....	4	.....	10	.....	.....	.....	.....	foggy.....	
French.																			
Agen, Normal School	29.22	742.3	29.88	758.9	50.7	10.4	79	sse.	.....	.....	2	.....	kn	.....	.....	.....	.....	.....	**M. Labroue, Director.**
Alençon, Normal School	29.12	739.6	29.67	753.6	47.5	8.6	78	ssw.	.....	.....	2	.....	skn	.....	nne.	0.098	2.5	.....	**M. Nicot, Director.**
Arras, Engineer School	29.44	747.7	29.70	754.4	45.5	7.5	85	se.	.....	.....	3	.....	k	.....	.....	0	0	.....	**M. Fénéon, Command't.**
Avignon, Normal School	30.02	762.6	30.10	764.6	54.0	12.2	63	e.	.....	.....	2	.....	0	.....	.....	0	0	clear.....	**M. Giraud, Director.**
Bar-sur-Seine	29.33	745.0	29.89	759.2	49.3	9.6	47	sse.	.....	.....	3	0	5 cn	.....	nnw.	0	0	cloudy.....	**M. Sallard, Director.**
Beauvais, Normal School	29.48	748.9	29.76	755.8	49.1	9.5	48	se.	.....	.....	2	.....	8	.....	.....	0.012	0.3	very cloudy	**M. Frère Eugène Marié**
Besançon, Normal School	29.07	738.4	29.98	761.5	58.6	14.8	50	e.	.....	.....	1	.....	kn	.....	nw.	0	0	.....	**M. Gobin, Director.**
Bordeaux, Observatory	29.43	747.5	29.69	754.2	49.3	9.6	58	se.	.....	.....	4	.....	10	.....	.....	0.008	0.2	covered	**M. Rayet, Director.**
Bourges, Normal School	29.24	742.7	29.79	756.7	53.2	11.8	45	ese.	.....	.....	2	2 c	0	.....	.....	0	0	slightly cl'dy	**M. Malet, Director.**
Brest, Naval Observatory	29.22	742.2	29.47	748.4	47.8	8.8	94	sw.	.....	.....	4	.....	10	.....	sw.	0.756	19.2	.....	**M. de Kermaréc, Dir.**
Caen, Normal School	29.62	752.4	29.70	754.3	51.8	11	86	nnw.	.....	.....	3	.....	10	.....	.....	0.059	1.5	covered.....	**M. Berson, Director.**
Châlons-sur-Marne, N.Sch'l	29.53	750.1	29.85	758.3	52.7	11.5	61	se.	.....	.....	2	.....	0	.....	.....	0	0	clear.....	**M. Jadot, Director.**
Charleville, Normal School	29.37	746.1	29.89	759.3	46.9	8.3	70	sse.	.....	.....	1	.....	2	.....	.....	0	0	¼ covered...	**M. Grimard, Director.**
Clermont-Ferrand Obs'y	28.50	723.8	29.84	758.0	54.7	12.6	29	s.	.....	.....	3	.....	5	.....	.....	0.028	0.7	½ covered...	**M. Alluard, Director.**
Cluny, Normal School	29.08	738.6	29.94	760.4	48.2	9	55	s.	.....	.....	6	.....	6	.....	s.	0.024	0.6	.....	**M. de Villemontée, Dir.**
Commercy, Normal School	29.09	738.9	29.97	761.1	45.5	7.5	68	e.	.....	.....	1	.....	10 n	e.	e.	0.067	1.7	raining.....	**Dr. Coulet, Director.**
Gap, Normal School	27.58	700.6	30.14	765.6	48.2	9	36	w.	.....	.....	2	.....	1 8	.....	.....	0	0	.....	**M. Jeangirard, Director.**
Grèasque, du Rhone	29.02	737.0	30.16	766.0	52.3	11.3	65	s.	.....	.....	3	.....	7	.....	se.	0.047	1.2	.....	**M. Kina, Director.**
Grenoble. Normal School	29.29	743.5	30.06	763.5	48.6	9.2	61	ese.	.....	.....	2	2 cs	0	.....	.....	0.409	10.4	slightly cl'dy	**M. Ablard, Director.**
Guéret	28 50	724.0	30.10	764.6	57.2	14	30	sw.	.....	.....	3	.....	cn	.....	sw.	0	0	.....	**M. Delorme, Dir.**
Lamballe, Normal School	29.22	742.2	29.49	749 0	48.2	9	94	sw.	.....	.....	2	.....	5	.....	sw.	0.04	1.	cloudy.....	**M. Ollitrault, Director.**
Lescar, Normal School	29.18	741.1	29.74	755.4	54.0	12.2	41	sw.	.....	.....	1	.....	5 8	.....	.....	0.008	0.2	cloudy..	**M. Chauvin, Director.**
Lorient, Naval Observatory	29.39	746.4	29.49	749.0	51.8	11.0	86	s.	.....	.....	6	.....	10	s.	.....	0.157	4.0	raining.....	**Lt. T. Carré, Director.**
Lyon, St. Genis-Laval	28.95	735.2	30.01	702.3	49.6	9.8	49	s.	.....	.....	3	2 c	0	.....	.....	0.146	3.7	slightly cl'dy	**M. André, Director.**
Mans, Normal School	29.43	747.4	29.65	753.0	48.9	9.4	73	n.	.....	.....	3	.....	10	.....	.....	0	0	covered	**M. Piboën, Director.**
Marseille, Observatory	29.89	759.2	30.17	766.2	54.7	12.6	64	se.	.....	.....	3	.....	9	.....	se	inap.	inap.	.....	**M. Stephan, Director.**
Montlouis	24.74	628.4	29.58	751.4	39.2	4.0	36	w.	22.4	10.0	.....	.....	7	w.	.....	0	0	.....	**M. Caré for Dr. Fines.**
Montpellier, Normal School	29.98	761.6	30.11	764 9	48.2	9	86	ne.	.....	.....	2	.....	5	nw.	.....	0	0	cloudy.....	**M. Galzin, Director.**
Nancy, Normal School	29.17	740.8	29.97	761.2	44.6	7.0	80	wsw.	.....	.....	1	.....	k	.....	.....	0	0	.....	**M. Hasse, Director.**
Nantes, Observatory	29.50	749.3	29.66	753.4	52.2	11.2	59	s.	.....	.....	1-3	.....	10 n	.....	ssw.	0.106	2.7	.....	**M. Larocque, Director.**
Perpignan, Observatory	29.86	758.4	29.97	761.3	57.9	14.4	45	sw.	5.6	2.5	.....	.....	10	w.	.....	0	0	.....	**Dr. Fines, Director.**
Pic-du-Midi, Summit	21.02	534.0	.....	.....	25.2	— 3.8	.....	sw.	.....	.....	.....	.....	5	ne.	sw.	0	0	cloudy.....	**M. Vaussenat, Director.**
Privas, Normal School	29.05	737.9	30.13	765.3	51.1	10.6	58	calm	.....	.....	3	.....	0	.....	.....	0	0	clear.....	**M. Taillefu.**
Puy de Dôme Obs'y, Summit	24.95	633.6	.....	.....	35.1	1.7	54	s.	.....	.....	0	.....	0	.....	.....	0	0	.....	**M. Alluard, Director.**
Rochefort, Naval Obs'y	29.69	754.2	29.72	755.0	50.4	10.2	100	sse.	.....	.....	6	.....	8	.....	ssw.	0.244	6.2	¾ covered...	**Lt. E. Decante, Director.**
Roche-sur-Yon, N. School	29.35	745.4	29.57	751.0	48.2	9	69	s.	.....	.....	2	.....	10	.....	.....	2.44	62.	covered.....	**M. Brotier, Director.**
Rodez, Normal School	27.72	704.0	29.90	759.5	44.2	6.8	57	se.	.....	.....	4	.....	5	.....	s.	0.071	1.8	cloudy	**M. Seger, Director.**
Rouen, Normal School	29.67	753.6	29.72	754.8	49.1	9.5	53	s.	.....	.....	4	.....	n	.....	w.	0.322	8.2	.....	**M. Moullot.**
Saint Lô	.....	.....	.....	.....	50.7	10.4	48	s.	.....	.....	1	.....	10	s.	.....	0	0	covered.....	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.61	752.1	29.78	756.3	52.2	11.2	48	s.	.....	.....	3	.....	10	.....	s.	0.059	1.5	covered.....	**M. Renou, Director.**
Toulouse, Observatory	29.15	740.3	29.87	758.6	53.4	11.9	68	sse.	.....	.....	3	.....	8	ssw.	.....	0	0	.....	**M. Baillaud, Director.**
Tours	29.55	750.5	29.72	755.0	52.5	11.4	52	sse.	.....	.....	7	.....	8	w.	.....	0	0	very cloudy	**M. de Tastes.**
Versailles, Observatory	29.26	743 2	29.75	755.6	51.1	10.6	37	s.	.....	.....	1	.....	10	.....	ssw.	0.059	1.5	covered.....	**Dr. A. Bérigny, Director**
Sub-series.											4	.....	.....	.....	.....	0.012	0.3	.....	
St. Martin du Hinx	29.63	752.7	29.78	756.5	60.6	15.9	35	se.	11.9	5.3	.....	.....	10 k	.....	wsw.	0.016	0.4	.....	**M. Cartier, Director.**
German.																			
Ansbach	28 68	728 4	30.17	766.4	41.4	5.2	78	se.	.....	.....	4	.....	0	.....	.....	0	0	.....	**Prof. Jnedt.**
Bamberg	29.26	743.2	30.11	764.7	44.4	6.9	63	calm	.....	.....	0	0	0	.....	.....	0	0	.....	**Prof. Dr. Hoh.**
Berlin	30.06	763.6	30.21	767.3	46.0	7.8	58	se.	.....	.....	2	.....	1	.....	.....	0	0	.....	**Meteorological Institute.**
Breslau	29.78	756.3	30.31	769 9	39.4	4.1	77	se.	.....	.....	1	.....	7	sw.	.....	0.008	0.2	foggy	**Royal University Observ.**
Carlsruhe	29.59	751.6	30.06	763.4	51.1	10.6	46	e.	.....	.....	3	.....	7	n.	.....	0.165	4.2	.....	**Albert Senz.**
Cassel	29.33	744.9	30.04	763.0	49.3	9.6	54	sw.	.....	.....	4	.....	2	sw.	.....	0	0	.....	**Dr. H. Möhl.**
Frankfort-on-the-Main	29.69	754.1	30.10	764.4	48.4	9.1	67	se.	.....	.....	2	.....	1	.....	.....	0	0	.....	**Physical Society.**
Friedrichshafen	28.61	726.7	30.07	763.8	46.4	8.0	60	ne.	.....	.....	5	.....	0	.....	.....	0	0	.....	**Wilhelm, Chief Tel.**
Hamburg	30.00	762.1	30.10	764.4	45.1	7.3	69	sse.	.....	.....	4	.....	6	w.	.....	0.067	1.7	.....	**E. Preller.**
Kiel	30.03	762.7	30.04	763.1	42.4	5.8	77	sse.	.....	.....	2	.....	2	.....	.....	0.012	0.3	.....	**Prof. Dr. G. Karsten.**
Leipsic, Astrom'l Obs'y	29.78	756.4	30.21	767.4	45.3	7.4	65	sse.	.....	.....	2	.....	0	.....	.....	0	0	.....	**H. Leppig, Asst.**
Magdeburg	29.97	761.2	30.17	766.2	45.5	7.5	70	ese.	.....	.....	1	.....	0	.....	.....	0	0	.....	**Dr. Assmann.**
Memel	30.20	767.1	30.25	768.3	29.5	— 1.4	92	s.	.....	.....	4	.....	10 s	.....	.....	.....	.....	.....	**Issermann.**
Munich	28.28	718.2	30.15	765.7	40.1	4.5	81	e.	.....	.....	2	.....	4	e.	.....	0.220	5.6	.....	**Central Station.**
Neufahrwasser	30.24	768.2	30.26	768.6	43.2	6.2	76	sw.	.....	.....	2	.....	4	sw.	.....	0.012	0.3	.....	**A. Lothes.**
Neustadt, Palatinate	29.52	749.8	30.04	763.1	43.7	6.5	74	calm	.....	.....	0	.....	6	.....	.....	0	0	.....	**Dicknether.**
Stuttgart	29.09	738.9	30.00	761.9	47.8	8.8	59	e.	.....	.....	1	.....	1	n.	.....	0	0	.....	**Prof. Dr. Schoder.**
Wustrow	30.13	765.3	30.16	766.0	41.5	5.3	74	sse.	.....	.....	2	0	3 8	.....	.....	0	0	.....	**Profs. Brandes & Reimer.**
Greek.																			
Athens	29.81	757.2	30.21	767.3	48.6	9.2	.....	n.	.....	.....	1.0	0	4 k	.....	.....	0	0	.....	**Schmidt & Wourlisch.**
Indian.																			
Kurrachee	30.03	762.6	30.08	763.9	75.3	24.1	48	wsw.	12.0	5.4	.....	.....	2	.....	.....	0	0	d. clouds....	
Deesa	29.51	749.6	29.99	761.7	79.9	26.6	8	nnw	10.0	4.5	.....	.....	2	w.	.....	0	0	d. clouds. ...	
Bombay	29.90	759.3	29.93	760.3	77.9	25.5	49	nnw.	22.0	9.8	.....	.....	0	.....	.....	0	0	blue sky.....	
Poona, Yarrowda	28.02	711.7	29.84	757.9	89.2	31.8	18	nw.	8.0	3.5	.....	.....	1	w.	.....	0	0	d. clouds	
Belgaum	27.35	694.7	29.84	758.0	85.9	29.9	19	se.	5.0	2.2	.....	.....	0	.....	.....	0	0	blue sky.....	
Lahore	29.28	743.8	30.06	763.4	65.1	18.4	38	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky.....	
Roorkee	29.07	738.3	29.99	761.8	67.8	19.9	26	w.	5.0	2.2	.....	.....	0	.....	.....	0	0	.....	
Agra	29.42	747.3	30.00	762.0	74.2	23.4	33	n.	.....	.....	.....	.....	0	.....	.....	0	0	.....	
Nagpur	28.84	732.4	29.86	758.5	88.3	31.3	24	w.	8.0	3.6	.....	.....	6	.....	n.	0	0	d. clouds. ...	
Jubbulpore	28.57	725 8	29.94	760.6	75.6	24.2	28	ne.	4.0	1.8	.....	.....	4	w.	.....	0	0	d. clouds	
Lucknow	29.58	751.4	29.97	761.2	68.3	20.2	49	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky.....	
Allahabad	29.63	752.6	29.95	760.7	72.6	22.6	47	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky.....	
Patna	29.72	754.8	29.91	759.7	73.1	22.8	39	nw.	2.7	1.2	.....	.....	0	.....	.....	0	0	blue sky.....	
Hazaribagh	27.88	708.2	29.93	760.2	69.8	21.0	54	nnw.	5.1	2.3	.....	.....	1	.....	.....	0.12	3.0	drizzling.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.80	756.9	29.86	759.0	85.0	29.4	48	s.	4.0	1.8			2			0	0	d. clouds	
Calcutta, Alipore	29.86	758.5	29.88	759.0	79.3	26.3	72	sw.	2.0	0.9			4			0	0	d. clouds	
Dhubri	29.75	755.7	29.87	758.8	73.5	23.1	51	calm	0.7	0.3			0			0	0	blue sky	
Chittagong	29.86	758.5	29.96	760.8	71.1	21.7	56	calm	2.8	1.2			8			0	0	d. clouds	
Sibsagar	29.59	751.6	29.94	760 4	63.9	17.7	73	ne.	2.0	0.9			5	w.	w.	0	0	d. clouds	
Jeypore	28.54	724.9	30.01	762.2	73.2	22.0	40	ne.	5.0	2.2			6	ne.		0	0	d. clouds	
Bellary	28.41	721.6			87.5	30.8	21	e.	4	1.8		4 c	0			0	0	d. clouds	
Trichinopoly	29.66	753.4			85.6	29.8	46	e.	1	0.4			0			0	0	blue sky	
ITALIAN.																			
Udine	29.87	758.6	30.29	769.4	47.1	8.4	65	e.	6.3	2.8			10			0.417	10.6		Prof. Giovanni Clodig.
Milan	29.76	755.8	30.29	769.4	46.8	8.2	75	nw.	5.2	2.5			8	ne.		0.394	10.0		Prof. Schiapparelli.
Padua	30.17	766 3	30.28	769.2	45.1	7.3	96	nne.	7.8	3.6			10			0.850	21.6		Prof. Dott. Lorenzoni.
Moncalieri	29.35	745.6	30.30	769.5	41.7	5.4	95	nw.	2.5	1.1			10			0	0		Prof. F. F. Denza.
Genoa	29.98	761.5	30.18	766.5	46.4	8.0	70	n.	10.5	4.7			2	nw.		0.098	2.5		Prof. G. M. Garibaldi.
Mondovi	28.33	719.5	30.33	770.4	41.7	5.4	62	nw.			2		6			0.209	5.3		Prof. D. O. Bruno.
Pesaro	30.12	765.1	30.17	766.4	45.3	7.4	91	ne.	3.1	1.4			10			0	0		Prof. Luigi Guidi.
Florence	29.93	760.1	30.19	766.7	51.8	11.0	64	ne.			2		10			0.472	12.0		Prof. Costantino Pittei.
Leghorn	30.05	763.2	30.13	765.4	53.4	11.9	64	sw.	7.4	3.3			10	sw.		0.984	25.0		Prof. P. Monte.
Rome	29.96	760.9	30.13	765.4	56.8	13.8	68	sse	0.7	0.3			10			0.122	3.1		Prof. P. Tachini.
Lecce	29.95	760.7	30.21	767.3	55.0	12.8	51	se.	2.5	1.1			3	s.		0	0		Prof. C. de Giorgi.
Cosenza	29.28	743.7	30.19	766.8	52.2	11.2	75	nnw.	3.1	1.4			4	nw.		0	0		Prof. D. Conti.
Cagliari	29.92	759.9	30.11	764.9	59.5	15.3	66	nw.			4		5	nw.		0.028	0.7		Prof. A. Pacinotti.
Palermo	29.91	759.6	30.16	766.1	56.1	13.4	71	calm	0	0			10			0.075	1.9		Prof. G. Cacciatore.
Syracuse	30.11	764.8	30.15	765.9	55.0	12.8	77	ne.	7.4	3.3			10	w.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.63	752.7	30.17	766.2	56.3	13.5	62	nw.	2.5	1.1			10	se.		c.177	4.5		Prof. F. Brioschi.
Stelvio	22.15	562.6			20.7	— 6.3	87	w.			2		10			0.166	2.7	misty	Prof. P. F. Denza.
Valdobbia	22.15	562.6			23.9	— 4.5	65	e.			2		0			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.42	772.7	30.45	773.5	17.0	— 8.3	100	calm			0	8 ck	0	nw.		0.035	0.9	cloudy	H. Hattori.
Awomori	30.38	771.6	30.42	772.6	22.8	— 5.1	59	sw.	5.5	2.5			9 ks			0.059	1.5	cloudy	K. Ogawa.
Hakodate	30.40	772.1	30.41	772.4	20.5	— 6.4	74	wnw.	3.0	1.3		2	0			0	0	clear	
Hamamatsu	30.31	769.9	30.34	770.7	34.5	1.4	71	calm			0	0	0			0	0	clear	
Kagoshima	30.37	771.3	30.38	771.6	50.9	10.5	67	ne.			4	0	0			0	0	clear	G. Miyanohara.
Kioto	30.26	768.7	30.45	773.4	31.9	— 0.1	79	nw.	1.1	0.4		0	5 s	n.		0	0	fair	M. Tojima.
Kochi	30.38	771.6	30.40	772.1	48.4	9.1	49	ne.	12.1	5.4		0	0			0	0	clear	K. Kusunose.
Miasaka	30.38	771.5	30.40	772.2	41.1	5.1	91	calm			0	0	0			0	0	clear	K. Masusaki.
Nagasaki, I. M. Obs'y	30.18	766.7	30.40	772.0	43.3	6.3	79	sw.	0.6	0.3		0	0			0	0	clear	S. Takehayashi.
Niigata	30.42	772.6	30.46	773.7	32.4	0.2	99	sw.	3.0	1.3			10 n		nw.	0.195	5.0	light snow	M. Morita.
Nobira	30.39	771.9	30.41	772.3	25.6	— 3.6	86	nnw.	6.0	2.7		0	0			0	0	clear	H. Midzushima.
Numazu	30.35	770.7	30.38	771.6	33.2	0.7	77	e.			2	8c;e;ck	0			0	0	cloudy	R. Kaneda.
Osaka	30.42	772.7	30.44	773.1	36.8	2.7	76	ne.	3.3	1.4		0	0			0	0	clear	H. Omura.
Sakai	30.44	773.1	30.45	773.4	41.9	5.5	72	e.			4	0	0			0	0	clear	K. Yamawchi.
Supporo					19.0	— 7.2	84	calm	0	0			2			0	0	clear	
Tokei Obs'y, Yeddo	30.32	770.0	30.40	772.1	32.9	0.5	90	ne.	3.0	1.3		0	0			0	0	clear	The Staff.
Wakayama	30.37	771.4	30.43	772.8	39.1	3.9	67	ne.	5.2	2.3		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.59	751.6	29.78	756.4	80.9	27.2	77	nne.	22.5	10.1		6ck;cs	4 ks;kn		n.	0.17	4.3	cloudy	Oliver & Figon.
MEXICAN.																			
Altata					60	15.6	88	nw.										clear	H. Diaz Pena.
Guanajuato	23.69	601.6	29.91	759.6	59.2	15.1	79	ne.	inap.	inap.		2 cs	0			0	0	light haze	Prof. Vicente Fernandez.
Leon	24.32	617.7	30.06	763.5	52.5	11.4	80	nnw.			1	8 c	0			0	0	cloudy	Prof. M. Leal.
Mazatlan	29.65	753.1	29.91	759.8	66.5	19.2	81	nw.	1.6	0.8		3 cs	0	sw.		0	0	clear	F. Quijano, U. E.
Mexico, Central Obs'y	23.11	587.0	30.26	768.6	47.8	8.8	60	calm	0	0		0	0			0	0	fine	The Staff.
Morelia	24.41	620.0	30.45	773.3	53.2	11.8	71	e.			1	0	0			0	0	fine	M. Tena, M. D.
Pabellon	23.98	609.2	30.02	762.6	55.4	13.0	62	w.			1	5 c	1 s	w.	w.	0	0	clear	
Puebla, Catholic Institute	23.40	594.3	30.24	768.0	46.4	8.0	80	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
Zacatecas	22.60	574.0	30.28	769.2	53.6	12.0	56	ne.	4.2	1.9		6 c	0	s.		0	0	½ cloudy	I. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.77	756.1	29.77	756.1	47.8	8.8		sse.			5					0.039	1.0		
Groningen	29.86	758.4	29.91	759.8	46.0	7.8		s.			4					0	0		
Helder																0	0		
Hellevoetsluis	29.80	757.0	29.80	757.0	48.7	9.3	57	sse.			4					0.016	0.4	lightly cld'y	H. van der Brink
Utrecht	29.82	757.5	29.87	758.7	47.7	8.7	67	sse.			4		2			0	0		
Sub-series.																			
Batavia, Java	29.83	757.6			79.5	26.4	86	n.	1.5	0.7			6			0.04	1.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.66	753.3	29.72	754.9	41.0	5.0	54	s.	22	10			4			0.079	2.0		
Brono	29.67	753.7	29.71	754.7	39.2	4.0	80	sw.			7		9			0.043	1.1		
Christiania	29.80	756.9	29.95	760.7	37.2	2.9	86	s.	4	2			9			0.512	13.0		
Gjæsvær	29.37	746.0	29.39	746.6	35.6	2.0		sse.			6		6					raining	
Lodingen	29.34	745.3	29.39	746.5	40.8	4.9	60	sse.			7		10			0.035	0.9		
PORTUGUESE.																			
Angra, Azores	30.16	766.1	30.32	770.2	51.4	10.8	77	nw.	9.8	4.4			4			0.079	2.0		Dr. J. A. Sampaio.
Campo Major	28 93	734.7	29.95	760.7	48.0	8.9	86	ssw.	3.1	1.4			10			0.374	9.5		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.16	766.0	30.24	768 2	65.7	18.7	73	s.	3.8	1.7			2	ne.		0.071	1.8		Capt. D. A. de Cunha.
Lisbon, Observatory	29.67	753.6	30.03	762.8	53.6	12.0	63	w.	17.4	7.8			8			0.508	12.9		The Staff.
Ponta Delgada, Azores	30.27	768.9	30.34	770.7	56.8	13.8	55	nnw.	8.1	3.6			4			0.039	1.0		
Saint Paul de Loando	29.73	755.1	29.93	760.1	84.2	29.0	91	wnw.	0.7	0.3			3	sse.		0	0		
Serra da Estrella	25.01	635.3	29.80	758.4	33.3	0.7	100	w.	36.7	16.4			10			0.551	14.0	fog & sleet	
RUSSIAN.																			
Akmolinski	29.06	738.1	30.34	770.7	—26.1	—32.3	80	wsw.	7	3		5 cs	0			0	0		Major K. Lasarew.
Archangel	30.12	765.1	30.14	765.6	19.8	— 6.8	89	s.	4	2			10			0	0		Capt. Sselliwerstow.
Ashurada	30.49	774.5	30.40	772.1	48.0	8.9	68	ne.	9	4		0	1 s			0	0	light clouds	
Astrakhan	30.58	770.8	30.50	774.7	20.8	— 2.9	81	nnw.	4	2		0	7 k			0	0		Capt. Wisganow.
Baku	30.45	773.5	30.41	772.3	39.2	4.0	82	calm	0	0		0	8 k			0	0		
Barnaul	29.69	754.2	30.24	768.2	9.3	—12.6	89	sw.	9	4			10			0.075	1.9		Meteorological Obs'y.
Bielosersk	29.82	757.5	30.32	770.1	27.7	— 2.4	49	calm	0	0		0	0			0	0		
Dorpat	29.95	760.8	30.21	767.4	27.0	— 2.8	70	s.	7	3		0	0			0	0		Observatory.
Ekaterinburg	29.52	749.9	30.05	778.4	—15.7	—26.5	76	nnw.	9	4		0	0			0	0		Meteorological Obs'y.
Elisawetgrad	30.02	762.4	30.50	774.8	19.8	— 6.8	65	n.	2	1		0	0			0	0		
Irkutsk	28.69	728.6	30.53	775.4	1.0	—17.2	80	calm			0		6			0	0		
Kasalinsk	29.94	760.4	29 96	760 9	2.1	—16.6	66	e.	2	1		0	0						
Kasan	30.14	765.6	30.45	773.4	1.6	—16.9	71	calm	0	0			10			blank	blank		Observatory.
Kem	30.00	762.0	30.05	763.3	23.0	— 5.0	76	sw.	9	4		0	6 ks			0	0	light clouds	
Kertch	30.16	766.0	30.18	766.5	24.8	— 4.0	75	ene.	11	5		0	8 n			0	0		Lagorio & Sastyres.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Kieff	29.81	757.2	30.51	775 0	14.0	—10.0	90	se.	4	2	.....	0	0	.....	.....	0	0	....	Observatory.
Koslov	29.91	759.8	30.50	774.8	6.3	—14.3	76	calm	0	0	.....	.....	3 s	.....	.....	0	0	....	
Libau	30.15	765.8	30.17	766.4	28.9	— 1.7	88	sse.	9	4	.....	.....	10	.....	.....	0.016	0.4	snowing.....	E. Quass.
Lugan	30.25	768.3	30.45	773.5	17.4	— 8.1	81	ene.	9	4	.....	.....	10	.....	.....	0	0	....	Meteorological Obs'y.
Moscow	29.94	760.5	30.47	773.8	20.8	— 6.2	57	w.	5.6	2.5	.....	0	0	.....	.....	0	0	....	Meteorological Obs'y
Nikolaiev	30.29	769.3	30.36	771.2	22.6	— 5.2	71	ene.	22	10	.....	0	0	.....	.....	0	0	....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.21	767.4	30.30	769.6	— 2.6	—19.2	51	calm	0	0	.....	.....	0	.....	.....	0	0	....	Iwanow.
Pekin, China	30.34	770.6	30.49	774.4	32.0	0.0	91	calm	0	0	.....	.....	0	.....	.....	0	0	....	Physical Observatory.
Petro-Alexandrovsk	30.22	767.6	30.61	777.4	21.9	— 5.6	63	nw.	1.1	0.5	.....	10 c	9 n	.....	.....	0.004	0.1	....	
Petrozavodsk	30.01	762.2	30.22	767.7	9.3	—12.6	81	calm	0	0	.....	0	0	.....	.....	0	0	....	Dr. Bergmann.
Pinsk	29.88	759.0	30.41	772.5	27.3	— 2.6	56	se.	9	4	.....	0	0	.....	.....	0	0	....	
Poti	30.10	764.4	30.11	764.9	47.8	8.8	71	sw.	4	2	.....	.....	10 n	.....	.....	0	0	....	
St. Petersburg	30.23	767.8	30.24	768.2	20.7	— 6.3	63	sse.	9	4	.....	0	0	.....	.....	0	0	....	Central Physical Obs'y.
Samarkand	27.81	706.4	30.44	773.1	28.6	— 1.9	59	sw.	13	6	.....	.....	9 k	.....	.....			....	
Semipalatinsk	29.53	750.1	30.24	768.1	12.2	—11.0	79	s.	16	7	.....	.....	10	.....	.....	0	0	....	Major Lasarew.
Sevastopol	29.90	759.4	30.13	765.4	31.8	— 0.1	94	nw.	4	2	.....	.....	10 n	.....	.....	0.075	1.9	heavy cl'ds.	
Staroi Bykhov	30.03	762.7	30.54	775.7	11.5	—11.4	64	se.	4	2	.....	.....	.....	.....	.....	0	0	....	
Tashkend	28.68	728.4	30.46	773.6	30.4	— 0.9	44	calm	0	0	.....	.....	9 kn	.....	.....	0	0	....	Terch, A. M.
Tiflis	28.94	735.0	30.44	773.1	33.3	0.7	66	e.	7	3	.....	.....	10 ks	.....	.....	0	0	....	Physical Observatory.
Vernoe	27.64	702.0	30.34	770.7	17.8	— 7.9	69	sw.	4	2	.....	.....	10 n	.....	.....			....	
Viatka	29.77	756.1	30.46	773.7	9.5	—12.5	.....	se.	4	2	.....	.....	10	.....	.....	0	0	....	
Vladivostock	30.43	773.0	30.50	774.7	16.9	— 8.4	48	calm	0	0	.....	.....	0	.....	.....	0	0	....	
Warsaw	29.87	758.8	30.32	770.1	35.8	2.1	91	n.	4	2	.....	.....	10	.....	.....	0.039	1.0	heavy cl'ds.	Astronomical Obs'y.
Wilna	29.89	759.1	30.34	770.6	26.2	— 3.2	67	s.	4	2	.....	.....	10	.....	.....	0.016	0.4	heavy cl'ds.	Berg, Assistant.
Yeniseisk	30.10	764.5	30.42	772.7	— 2.6	—19.2	86	e.	2	1	.....	.....	4	.....	.....	blank	blank	....	M. O. Marks.
Scottish.																			
Monach Lt	.....	.....	28.59	726.2	41	5.0	91	ssw.	.....	.....	8	.....	10	.....	.....	0.3	8.	gloomy.....	J. Youngclause.
North Unst	.....	.....	29.22	742.2	.....	.....	.....	se.	.....	.....	8	.....	10	.....	.....	.....	.....	....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.02	762.5	30.13	765.2	57.6	14.2	72	sw.	3.6	1.6	.....	ck	3 k	.....	.....	0	0	....	Antonio Reve, Director.
Bilbao, Met. Obs'y	29.74	755.4	29.80	756.9	58.6	14.8	54	se.	7.4	3.3	.....	.....	10	.....	.....	0	0	covered.....	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.88	682.8	29.90	759.5	43.7	6.5	89	s.	11.9	5.3	.....	.....	10	.....	.....	0	0	covered.....	Domingo Martin.
Madrid, Royal Obs'y	27.69	703.4	29.95	760.8	48.2	9.0	88	s.	14.8	6.6	.....	.....	10	.....	.....	0.075	1.9	covered.....	The Staff.
Murcia, Met. Obs'y	29.95	760.7	30.08	763.9	57.6	14.2	83	sse.	2.0	0.9	.....	3	6	e.	.....	0	0	almost cov'd	Olayo Diaz, Director.
Oviedo	28.80	731.6	29.69	754.1	52.7	11.5	64	ne.	7.9	3.5	.....	2 cs	6 n	sw.	sw.	0	0	fair.....	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.84	732.5	29.74	755.5	45.3	7.4	87	w.	3.6	1.7	.....	.....	10	.....	.....	1.158	29.4	hailing.....	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.88	759.0	29.94	760.5	77.3	25.1	82	se.	11.0	4.9	.....	.....	k	.....	.....	0.031	0.8	clear.....	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.04	763.1	30.14	765.7	57.0	13.9	98	w.	14.3	6.4	.....	.....	10	.....	s.	0.825	21.0	light rain....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.06	763.5	30.15	765.8	75.9	24.4	84	se.	4.9	2.2	.....	2 cs	3 k	se.	se.	0.098	2.5	d. clouds....	Enrique Gades, Chf Eng'r
Swedish.																			
Hapsrands	29.85	758.2	29.89	759.2	24.4	— 4.2	100	s.	.....	.....	4	.....	10	.....	.....	0	0	....	
Umea	29.84	758.0	29.89	759.3	35.6	2.0	100	sw.	.....	.....	2	.....	7	.....	.....	0	0	....	
Hernosand	29.85	758.3	29.91	759.6	35.6	2.0	89	calm	.....	.....	0	.....	5	.....	.....	0.008	0.2	....	
Stockholm	29.84	757.9	30.02	762.4	37.4	3.0	85	wsw.	.....	.....	2	.....	10	.....	.....	0	0	....	
Wisby	30.00	761.9	30.06	763.4	37.0	2.8	93	w.	.....	.....	2	.....	10	.....	.....	0	0	....	
Sub-series.																			
Upsala	29.93	760.2	30.02	762.4	35.2	1.8	93	sw.	8.3	3.7	.....	.....	10	.....	.....	0	0	....	S. A. Fineman.
Swiss.																			
Geneva	28.66	727.9	30.13	765.4	38.1	3.4	75	n.	.....	.....	2	.....	6	.....	.....	0.165	4.2	cloudy.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.21	767.4	30.7	— 0.7	89	nw.	15	6.5	.....	.....	10	.....	n.	0.157	4.0	snowing.....	The Observatory.
Valona	.....	.....	30.23	767.8	53.1	11.7	.....	nw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.01	762.3	60.8	16.0	72	sw.	.....	.....	1	.....	10 n	.....	sw.	0.33	8.4	....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	Fred L. Kingsbury.
United States.																			
Albany, New York	30.09	764.3	30.18	766.6	29	— 1.7	77	w.	12	5.4	.....	0	2 s	.....	w.	0.17	4.3	clear.....	J. O. Barnes.
Alpena, Michigan	29.74	755.4	30.45	773.4	8	—13.3	76	w.	4	1.8	.....	0	0	.....	.....	0.03	0.8	clear.....	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.07	636.8	30.17	766.3	34	1.1	92	s.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy.....	W. O. Barnes.
Assiniaboine, Ft., Montana	27.04	686.8	30.08	764.0	13	—10.6	66	sw.	8	3.6	.....	0	5 s	.....	sw.	0	0	fair.....	B. O. Lenoir.
Atlanta, Georgia	29.08	738.0	30.30	769.6	57.0	13.9	93	nw.	6	2.7	.....	.....	10 ks	.....	w.	0.10	2.5	cloudy.....	H. O. Smyth.
Atlantic City, New Jersey	30.22	767.6	30.24	768.1	35	1.7	64	n.	17	7.6	.....	.....	10 s	.....	.....	0.57	14.5	cloudy.....	Jas. M. Watson.
Augusta, Georgia	30.06	763.5	30.26	768.6	62	16.7	93	calm	0	0	.....	.....	10 s	.....	sw.	0.01	0.3	cloudy.....	John Healy.
Baltimore, Maryland	30.33	770.4	30.38	771.6	38	3.3	53	nw.	9	4.0	.....	8 cs	0	w.	.....	0.40	10.2	cloudy.....	Geo W Felger.
Barnegat, New Jersey	30.20	767.1	30.22	767.6	35.0	1.7	53	nw.	28	12.5	.....	10 cs	0	nw.	.....	0.81	20.6	cloudy.....	G. A. Hill.
Behring Id., Behring Sea	30.16	766.1	30.18	766.6	30.1	— 1.1	.....	sw.	24	10.7	.....	0	3 k	.....	sw.	0.01	0.3	clear.....	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.43	722.1	30.16	766.1	6	—14.4	66	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	A. Pritchard.
Benton, Fort, Montana	27.04	686.8	30.04	763.0	13	—10.6	66	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	S. Wheaton.
Billings, Montana	26.66	677.2	.....	.....	2	—16.7	76	w.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	T. Gibson.
Bismarck, Dakota	28.17	715.5	30.15	765.8	1	—17.2	72	e.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	Cyrus Cramer.
Block Island, Rhode Island	30.04	763.0	30.07	763.8	32	0.0	78	nw.	.....	.....	6	0	0	.....	.....	0.40	10.2	clear.....	J. T. Elker.
Boise City, Idaho	27.12	688.8	30.08	764.0	8	—13.3	91	nw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy.....	B. E. Light.
Boston, Massachusetts	29.79	756.7	29.95	760.7	32.0	0.0	60	nw.	16	7.2	.....	0	3 s	.....	nw.	0.16	4.1	clear.....	O. B. Cole.
Brownsville, Texas	30.01	762.2	30.06	763.5	68.0	20.0	100	s.	8	3.6	.....	.....	fg.	.....	.....	0	0	dense fog.....	M. McCarty.
Buffalo, New York	29.63	752.6	30.43	772.9	14.2	— 9.9	85	sw.	10	4.5	.....	0	2 ks	.....	w.	0.02	0.5	clear.....	W. Finn.
Buford, Fort, Dakota	27 96	710.2	30.14	765.5	1	—17.2	79	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	F. A. Mellen.
Burlington, Vermont	29.85	758.2	30.16	766.1	19.3	— 7.1	82	n.	9	4.0	.....	0	0	.....	.....	inap.	inap.	clear.....	D. N. Farnell.
Cairo, Illinois	30.04	763.0	30.46	773.7	31.0	— 0.6	78	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	W. H. Ray.
Cape Henry, Virginia	30.25	768.3	30.27	768.8	45	7.2	83	n.	20	8.9	.....	0	6 s	.....	.....	0	0	fair.....	A. K. Alderson.
Cape May, New Jersey	30.26	768.6	30.29	769.4	39.0	3.9	65	n.	43	19.2	.....	.....	10 s	.....	n.	0.27	6.9	cloudy.....	W. E. Smith.
Cape Mendocino, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	J. J. McLean.
Cedar Keys, Florida	30.22	767.6	30.24	768.1	70	21.1	90	se.	6	2.7	.....	0	3 s	.....	sw.	0	0	clear.....	F. W. Mixer.
Champaign, Illinois	29.61	752.1	30.48	774.2	7.8	—13.4	69	e.	8	3.6	.....	0	4 s	.....	se.	0	0	fair.....	L. A. Welsh.
Charleston, S. Carolina	30.17	766.3	30.23	767.8	59	15.0	93	sw.	5	2.2	.....	6 ck	fg.	w.	.....	0	0	fair.....	H. H. Smith.
Charlotte, N. Carolina	29.34	745.2	30.23	767.8	60.0	15.6	93	w.	2	0.9	.....	.....	10 s	.....	sw.	0	0	cloudy.....	D. O'Donoghue.
Chattanooga, Tennessee	29.49	749.0	30.35	770.9	48.0	8.9	77	n.	4	1.8	.....	.....	10 s	.....	n.	0.29	7.4	cloudy.....	B. L. Goulding.
Cheyenne, Wyoming	23.95	608.3	30.20	767.1	13.7	—10.2	53	w.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	E. McGovern.
Chicago, Illinois	29.76	755.9	30.50	774.7	8.9	—12.8	80	w.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear.....	J. Mitchell.
Chincoteague, Virginia	30.24	768.1	30.26	768.6	42	5.6	58	n.	34	15.2	.....	.....	10 ks	.....	w.	0.01	0.3	cloudy.....	C. F. Dickens.
Cincinnati, Ohio	29.82	757.4	30.51	774.9	28	— 2.2	77	n.	5	2.2	.....	0	0	.....	.....	0.04	1.0	clear.....	R. B. Watkins.
Cleveland, Ohio	29.71	754.6	30.50	774.7	20	— 6.7	88	w.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear.....	J. B. Newlin.
Coleman City, Texas	28.30	718.8	30.18	766.6	49	9.4	86	n.	6	2.7	.....	.....	10 s	.....	n.	0.02	0.5	cloudy.....	L. Dorman.
Columbus, Ohio	29.60	751.8	30.50	774.7	27	— 2.8	77	nw.	3	1.3	.....	0	0	.....	.....	0.24	6.1	clear.....	D. Cuthbertson.
Concho, Fort, Texas	28.14	714 7	30.16	766.1	50.0	10.0	86	ne.	8	3.6	.....	.....	10 s	.....	.....	inap.	inap.	cloudy.....	J. McGlone.
Davenport, Iowa	29.78	756.4	30.48	774.2	8	—13.3	55	ne.	2	0.9	.....	4 cs	fg.	.....	.....	0	0	fair.....	R. R. Martin.
Davis, Fort, Texas	25.22	640.6	30.18	766.6	43	6.1	76	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	J. Williams.
Dayton, Washington T'y	27.84	707.1	29.65	753.1	18	— 7.8	87	s.	15	6.7	.....	2 cs	0	.....	.....	0	0	clear.....	D. Moore.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.24	641.1	30.16	766.1	15	— 9.4	87	s.	1	0.4		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.26	768.6	30.28	769.1	37	2.8	72	n.	40	17.9		10 cs	0	n.		0.37	9.4	cloudy	T. S. Townsend.
Denison, Texas	29.40	746.7	30.24	768.1	43.0	6.1	83	ne.	4	1.8			10 s			0	0	cloudy	J. W. Byram.
Denver, Colorado	24.68	626.9	30.20	767.1	22.0	— 5.6	64	s.	9	4.0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.54	750.3	30.51	774.9	— 4	—20.0	65	w	1	0.4		0	sk.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.75	755.6	30.50	774.7	21.0	— 6.1	84	w.	4	1.8		0	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.59	700.8	30.33	770.4	25	— 3.9	76	se.	6	2.7			10 s			0	0	cloudy	Y. P. Temple.
Dubuque, Iowa	29.75	755.6	30.51	774.9	— 6.5	—21.4	58	calm	0				10 s			0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.58	751.3	30.39	771.9	2	—16.7	72	w	2	0.9		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.34	745 2	30.18	766.6	55.0	12.8	93	ne.	2	0.9			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.23	640.8	30.13	765.3	—15	—26.1	58	n.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.59	751.6	29.66	753.4	25.0	— 3.9	88	nw.	14	6.3		3 ck	3 s	w.	w.	0.46	11.7	fair	D. C. Murphy.
Elliott, Fort, Texas	27.39	695.7	30.29	769.4	28	— 2.2	59	s.	4	1.8		6 c	0	s.		0	0	fair	W. J. Cundall.
El Paso, Texas	26.25	766.7	30.13	765.3	41.0	5.0	92	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.70	754.4	30.48	774.2	19	— 7.2	84	w.	6	2.7			10 s			0.02	0.5	cloudy	Peter Wood.
Escanaba, Michigan	29.74	755.4	30.46	773.7	— 7.0	—21.7	64	sw.	4	1.8		0	0			inap.	inap.	clear	George Heathcote.
Fredericksburg, Texas	28.32	719.3	30.12	765.0	62	16.7	100	s.	3	1.3			10 s			inap.	inap.	cloudy	Frank Halwegler.
Galveston, Texas	30.09	764.3	30.14	765.5	64	17.8	93	se.	12	5.4			fg.			0	0	dense fog	E. O'C. MacInerney
Grand Haven, Michigan	29.78	756.4	30.48	774.2	4.0	—15.6	72	ne.	3	1.3		0	0			0.01	0.3	clear	J. E. Mueller.
Grant, Fort, Arizona	25.17	639.3	30.03	762.7	44.5	6.9	65	n	3	1.3			10 s			0.01	0.3	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.17	766.3	30.19	766.8	56	13.3	100	sw.	22	9.8		9 k	fg.	s.		0	0	cloudy	R. M. Crawford.
Helena, Montana	25 64	651.2	30.04	763.0	12	—11.1	83	calm	0			0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.18	741.2	30.23	767.8	40	4.4	82	ne.	2	0.9			10 ks		n.	0	0	threatening	J. P. Sherry.
Huron, Dakota	28.73	729.7	30.25	768.3	8.3	—13.2	55	se.	24	10.7		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.65	753.1	30.50	774.7	18	— 7.8	67	n.	5	2.2		0	hz.			0.01	0.3	clear	C. F. R. Wappenhans.
Indianola, Texas	30.05	763.3	30.08	764.0	60.4	15.8	100	se.	6	2.7			fg.			0.01	0.3	dense fog	L. A. Reed.
Jacksboro, Texas	28.99	736.3	30.23	767.8	43	6.1	68	e.	3	1.3		2 ck	4 s	nw.		0.01	0.3	fair	D. J. Carr.
Jacksonville, Florida	30.21	767.3	30.26	768.6	64	17.8	93	calm	0			5 cs	fg.			0	0	fair	J. W. Smith.
Keogh, Fort, Montana	27.43	696.7	30.11	764.8	— 7	—21.7	61	calm	0	0		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.78	756.4	30.48	774.2	10.0	—12.2	70	n.	3	1.3		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.15	765.8	30.17	766.3	74.0	23.3	84	e.	8	3.6		0	2 k		e.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.18	766.6	30.20	767.1	54	12.2	70	ne.	10	4.5		0	8 ks		n.	0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.29	744.0	30.37	771.4	40.8	4.9	82	n.	11	4.9			10 s			0.25	6.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.61	752.1	30.45	773.4	— 2	—18.9	65	s.	8	3.6		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.53	750.0	30.48	774.2	20	— 6.7	84	calm	0	0		0	0			0	0	clear	A. W. Browns.
Lewiston, Idaho	29.02	737.1	29.90	759.4	20.5	— 6.4	73	e.	6	2 7		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.99	761.7	30.32	770.1	43	6.1	74	ne.	10	4.5			10 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.56	750.8	29.96	761.0	43	6.1	74	ne.	8	3.6			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.86	758.4	30.46	773.7	29	— 1.7	67	n.	7	3.1		2 cs	2 s	w.		0.07	1.8	fair	L. M Dey.
Lynchburg, Virginia	29.56	750.8	30.28	769.1	46.5	8.1	55	nw.	9	4.0		0	8 s		w.	0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.73	755.1	30.43	772.9	13.0	—10.6	70	w.	3	1.3		0	0			0.14	3.6	clear	F. R. Day.
Macon, Fort, North Carolina	30.19	766.8	30.20	767.1	55.0	12.8	100	sw.	8	3.6		0	8 s		sw.	0	0	cloudy	William Daly.
Madison, Wisconsin	29.42	747.3	30.51	774.9	5	—15.0	76	calm	0	0			fg.			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.40	645.1	29.94	760.5	20	— 6.7	46	w.	8	3.6		6 ck	0	w.		0	0	fair	F. Burke.
McKavett, Fort, Texas	27.82	706.6	30.20	767.1	54	12.2	100	e.	5	2.2			fg.			0	0	dense fog	J. E. Thatcher.
Marquette, Michigan	29.67	753.6	30.45	773.4	10	—12.2	58	e.	2	0.9		0	0			inap.	inap.	clear	J. Gilligan.
Memphis, Tennessee	30.01	762.2	30.36	771.1	37	2.8	89	n.	8	3.6			10 s			0.38	9.7	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.71	754.6	30.51	774.9	9	—12.8	76	nw.	8	3.6		0	0			0	0	clear	W. Line.
Missoula, Fort, Montana	26.58	675.1	30.01	762.2	5	—15.0	54	w.	2	0.9		0	0			0	0	clear	I. H. Young.
Mobile, Alabama	30.18	766.6	30.22	767.6	64	17.8	93	s.	1	0.4			10s;fg			0	0	cloudy	C. A. Read.
Montgomery, Alabama	29.97	761.2	30.21	767.3	65.4	18.6	95	calm	0				10s;fg		n.	0	0	cloudy	J. B. McLaughlin
Moorhead, Minnesota	29.16	740.7	30.26	768.6	— 9	—22.8	100	s.	12	5.4			10 s		s.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.42	747.3	30.49	774.4	32.5	0.3	65	n.	14	6.3		0	0			0.57	14.5	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.11	587.0	29.73	755.1	— 5.0	—20.6	100	nw.	92	41.2			10n;fg		nw.	0.32	8.1	light snow	S. W. Beall.
Nashville, Tennessee	29.79	756.7	30.40	772.1	35.0	1.7	80	ne.	6	2.7		10 cs	0	sw.		0.70	17.8	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.01	762.2	30.13	765.3	31.5	— 0.3	59	nw.	10	4.5		1 cs	hz.			0.45	11.4	clear	J. H. Sherman.
New London, Connecticut	30.03	762.7	30.08	764.0	32	0.0	68	w.	20	8.9		0	0			0.64	16.3	clear	J. G. Lynch.
New Orleans, Louisiana	30.13	765.3	30.19	766.8	63.0	17.2	97	se.	2	0.9			fg.			0	0	dense fog	L. Dunne.
Newport, Rhode Island	30.00	762.0	30.05	763.3	32.3	0.2	73	w.	22	9.8		1 c	1 s			0.43	10.9	clear	W. McGillivray.
New York, New York	30.06	763.5	30.25	768.3	31.5	— 0.3	62	w.	15	6.7		6 cs	0	sw.		0.38	9.7	fair	J. B. Merrill.
Norfolk, Virginia	30.24	768.1	30.28	769.1	48	8.9	63	n.	21	9.4		6 cs	4 s	w.	n.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.18	690.4	30.28	769.1	20.6	— 6.3	74	s.	20	8.9		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y.	29.36	745.7	29.40	746.7	39.0	3.9	89	s.	9	4.0			10 n			0.68	17.3	light rain	J. Dascomb.
Omaha, Nebraska	29.19	741.4	30.46	773.7	11.7	—11.3	65	se.	4	1.8		0	0			0	0	clear	A. Polhk.
Ogdaamte, Alaska	30.35	770.9	30.37	771.4	—12.0	—24.4	100	s.	15	6.7			10 n			0.02	0.5	light snow	P. H. Ray.
Oswego, New York	29.95	760.7	30.30	769.6	25.0	— 3.9	73	n.	18	8.0		0	4 k		n.	0.03	0.8	fair	J. G. Linsley.
Palestine, Texas	29.61	752.1	30.19	766.8	63.0	17.2	100	ne.	2	0.9			10n;fg			0.10	2.5	light rain	L. M. Pindell.
Pensacola, Florida	30.20	767.1	30.23	767.8	67.0	19.4	100	calm	0	0			fg.			0	0	dense fog	M. McGauran.
Philadelphia, Pa	30.19	766.8	30.30	769.6	33	0.6	72	nw.	12	5.4		2 c	3 s	w.	w.	0.56	14.2	fair	E. M. Mattison.
Pike's Peak, Colorado	17.63	447.8	30.35	770.9	0	—17.8	100	sw.			4	0	5 s		sw.	inap.	inap.	fair	H. Hall.
Pioche, Nevada	23.92	607.6	30.08	764.0	23	— 5.0	67	s.	6	2.7		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.61	752.1	30.47	773.9	26.0	— 3.3	76	nw.	7	3.1		4 c	0	nw.		0.18	4.6	fair	W. A. Reid.
Poplar River, Montana	27.74	704.6	30.08	764.0				nw.			4	0	0			0	0	clear	W. U. Maxwell.
Port Eads, Louisiana	30.18	766.6	30.19	766.8	59.0	15.0	87	se.	3	1.3		0	fg.			0	0	clear	H. B. Boyer.
Port Huron, Michigan	29.78	756.4	30.52	775.2	11.0	—11.7	88	w.	6	2.7		0	sk.			0.02	0.5	clear	W. O. Bailey.
Portland, Maine	29.82	757.4	29.88	758.9	28.0	— 2.2	64	nw.	14	6.3		0	hz.			0.10	2.5	clear	W. W. Eichelberger
Portland, Oregon	29.43	747.5	29.50	749.3	30.1	— 1.1	88	e.	5	2.2			10 s		e.	0.07	1.8	cloudy	M. L. Hearne.
Portsmouth, N. O.					61	16.1	90	sw.	20	8.9			10 s		sw.	0.03	0.8	cloudy	F. S. Coburn.
Prescott, Arizona	24.69	627.1	30.05	763.3	28.8	— 1.8	65	s.	3	1.3		0	3 s			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.88	758.9	29.91	759.7	33	0.6	68	w.	27	12.1		0	2 s			0.55	14.0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.22	767.0	30.23	767.8	68	20.0	93	e.	4	1.8		0	1 s			0	0	clear	W. J. Evans.
Red Bluff, California	29.58	751.3	29.95	760.7	37	2.8	82	n.	2	0.9			10 ks		s.	0	0	cloudy	J. R. Williams.
Rochester, New York	29.64	752.8	30.35	770.9	22	— 5.6	73	nw.	12	5.4		3 k	4 k	nw.		0.02	0.5	fair	E. W. McGann
Roseburg, Oregon	28.99	736.3	29.56	750.8	44	6.7	51	s.	7	3.1		0	6 s		sw.	inap.	inap.	fair	J. J. Nanry.
Sacramento, California	29.84	757.9	29.92	760.0	33.0	0.0	88	n.	5	2.2		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.87	758.7	30.51	774.9	21.3	— 5.9	95	n.	7	3.1		0	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.64	778.2	30.67	779.0	8	—13.3	100	s.	8	3.6			10 s			0	0	cloudy	A. P. Leavitt
St. Paul, Minnesota	29.48	748.8	30.42	772.7	— 5.0	—20.6	75	e.	1	0.4		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.22	742.2	30.19	766.8	— 6	—21.1	79	s.	14	6.3		0	0			0	0	clear	C. B Dilley.
Salt Lake City, Utah	25.60	650.2	30.16	766.1	18	— 7.8	58	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.37	746.0	30.09	764.3	66.0	18.9	93	se.	2	0.9			10 s			0.01	0.3	cloudy	T. J. Kenan.
San Diego, California	29.87	758.7	29.94	760.5	45.3	7.4	78	ne.	4	1.8		hz.	6 s			0	0	fair	A. C. Dobbins.
Sandusky, Ohio	29.80	756.9	30.52	775.2	22	— 5.0	73	nw.	7	3.1		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.23	767.8	30.26	768.6	33.0	0.6	68	nw.	25	11.2		5 k	0	nw.		0.50	12.7	fair	B. A. Blundon.
San Francisco, California	29.82	757.4	29.88	758.9	40.5	4.7	78	se.	3	1.3		0	4 s		sw.	inap.	inap.	fair	N. Gorom.
Santa Fé, New Mexico	23.22	589.8	30.30	769.6	38	3.3	51	e.	3	1.3		hz.	hz.			0	0	light haze	H. U. Jones.
Savannah, Georgia	30.16	766.1	30.25	768.3	65	18.3	81	sw.	5	2.2		3 ck	5 ks		sw.	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.16	664.5	30.01	762.2	24	— 4.4	64	sw.	21	9.4			10 s			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.98	761.5	30.23	767.8	50	10.0	80	ne.	16	7.2			10 n		ne.	0.57	14.5	light rain	E. N. Meekins.
Sill, Fort, Indian Territory	28.95	735.3	30.26	768.6	33.5	0.8	80	n	12	5.4			10 ks		n.	0	0	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.28	616.7	30.13	765.3	34.0	1.1	88	n.	2	0.9		0	6 k			0	0	fair	N. D. Lane.
Sitka, Alaska	29.50	749.3	29.57	751.1	14	—10.0	72	ne.	14	6.3		0	4 ks		ne.	0	0	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.82	757.4	30.32	770.1	36.5	2.5	80	e.	4	1.8		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.16	766.1	30.20	767.1	56	13.3	100	w.	11	4.9		3 cs	3 k		w.	0	0	fair	O. Parker.

STATIONS.	Barometer: Corrected for instrumental error and for temperature.		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	27.74	704.6	29.87	758.7	20.4	— 6.4	86	e.	1	0.4	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	H. Clifford.
Springfield, Illinois	29.78	756.4	30.52	775.2	20	— 6.7	70	e.	7	3.1	.....	2 c	0	w.	.....	0.01	0.3	clear.....	T. B. Jennings.
Springfield, Missouri	28.89	733.8	30.40	772.1	26.0	— 3.3	88	e.	10	4.5	.....	0	0	.....	.....	0.02	0.5	clear.....	J. H. Bryce.
Starkville, Miss	29.80	756.9	30.30	769.6	46	7.8	100	n.	11	4.9	.....	.....	10 n	.....	n.	1.53	38.9	light rain....	C. Dill.
Stevenson, Fort, Dakota	28.12	714.2	30.14	765.5	— 3	—19.4	68	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	A. Schneider.
Stockton, Fort, Texas	27.02	686.3	30.15	765.8	50	10.0	93	sw.	0	2.7	.....	4 k	0	sw.	.....	0	0	fair.	A. J. Warren.
Thatcher's Island, Mass	29.98	761.5	30.04	763.0	29.0	— 1.7	82	nw.	34	15.2	.....	0	0	.....	.....	0.20	5.1	clear.....	G. Liebmann.
Thomas, Camp, Arizona	27.23	691.6	30.06	763.5	42	5.6	92	se.	.....	.....	1	3 ck	2 s	.....	.....	0	0	fair.....	J. T. Fitzgerald.
Toledo, Ohio	29.75	755.6	30.49	774.4	21	— 6.1	70	n.	2	0.9	.....	0	fg	.....	.....	0	0	clear.....	A. Buell.
Tucson, Arizona	27.52	699.0	30.00	762.0	48	8.9	80	s.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.45	748.0	29.83	757.7	8	—13.3	76	w.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	36.5	2.5	64	w.	.....	.....	1	4 cs	4 s	sw.	w.	0	0	cloudy	O. L. Pease.
Vicksburg, Mississippi	29.94	760.5	30.20	767.1	53.8	12.1	94	ne.	13	5.8	.....	.....	10 n	.....	ne.	1.16	29.5	light rain....	James Keneally.
Visalia, California	29.53	750.0	29.91	759.7	31.8	— 0.1	82	se.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	O. D. Stewart.
Washakie, Fort, Wyoming	24.39	619.5	30.15	765.8	— 8.7	—22.6	80	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	T. M. Ambler.
Washington, D. C.	30.24	768.1	30.36	771.1	38.5	3.6	54	nw.	11	4.9	.....	4 cs	5 s	nw.	nw.	0.51	13.0	cloudy.....	B. M. Purssell.
West Las Animas, Colorado	26.06	661.9	30.19	766.8	15	— 9.4	67	w.	5	2.2	.....	0	1 s	.....	.....	0	0	clear	F. H. Brandenburg
Williamsport, Pa	29.71	754.6	30.34	770.6	29	— 1.7	61	nw.	12	5.4	.....	hz.	4 ks	.....	nw.	0.03	0.8	fair.....	B. F. Hough.
Wilmington, N. Carolina	30.17	766.3	30.23	767.8	63	17.2	90	w.	5	2.2	.....	.....	10 s	.....	w.	inap.	inap.	cloudy.....	Samuel A. Haney.
Winnemucca, Nevada	25.45	646.4	29.97	761.2	11.0	—11.7	70	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear.....	J. Grover.
Yankton, Dakota	28.98	736.1	30.40	772.1	4	—15.6	72	w.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	J. H. Atfield.
Yuma, Arizona	29.75	755 6	29.90	759.4	50.8	10.4	40	ne.	4	1.8	.....	.....	10 s	.....	sw.	0	0	cloudy	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6	.....	.....	53.5	11.9	69	calm	0	0	.....	0	7 ks; s	.....	w.	0	0	fair.....	Joaquin Gomez.
Kingston, Jamaica, W. I	30.10	764.5	30.11	764.8	70	21.1	94	calm	0	0	.....	.....	10 n; s	.....	.....	0.18	4.6	light rain....	Robert Johnston.
Paramaribo, S. A	30.07	763.8	30.07	763.8	77	25.0	91	e.	.....	.....	2	.....	8 ks	e.	e.	0.360	9.1	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.34	745.2	29.89	759.2	82	27.8	80	calm	.....	.....	0	8 ck	1 s	calm	calm	0.11	2.8	cloudy.....	Francisco J. Cisneros.
Rivas, Nicaragua, C. A	.....	.....	.....	.....	76.2	24.6	90	ne.	.....	.....	3	0	1 ks	.....	ne.	0	0	clear.	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.34	770.6	30.40	772.1	18	— 7.8	67	nw.	.....	.....	7	0	4 k	.....	.....	0	0	clear.....	W. J. Fisher.
St. Thomas, W. I	30.06	763.5	30.19	766.8	77	25.0	74	e.	.....	.....	.....	0	2 k	.....	e.	0.33	8.4	clear.....	Aug. Wallace.
Havana, Cuba	30.07	763.8	30.14	765.5	9.96	21.1	90	se.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	Benito Vines, S. J.
York Factory, B. A	30.24	768.1	30.31	769.9	—26.0	—32.2	.....	w.	8	3.6	.....	3 c	4 s	w.	w.	0	0	fair.....	Fortesque & Wood.

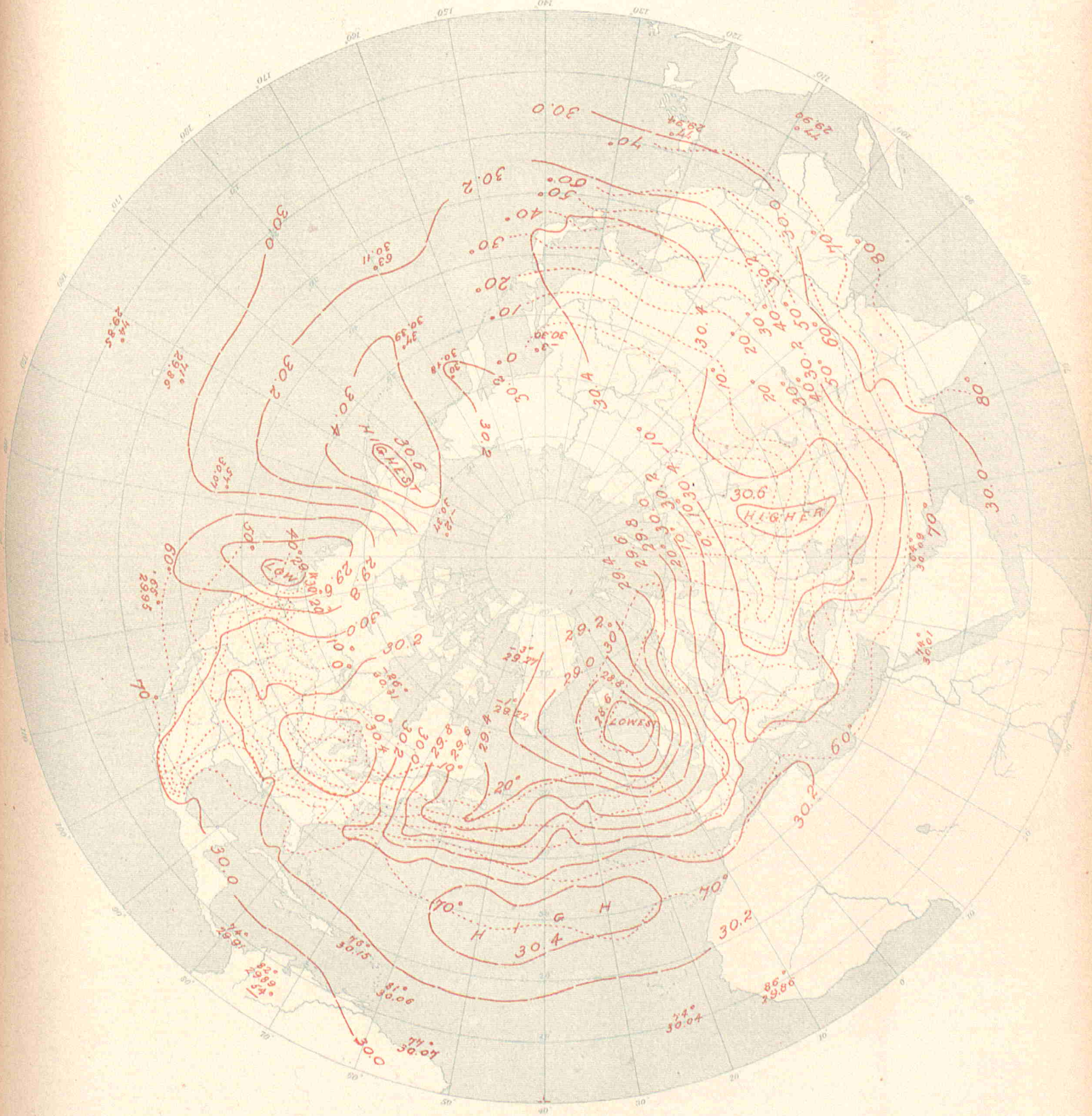
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind: Direction	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell. Character.	Sea-swell. Direction from	Weather.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Agincourt, Arosa Bay, Spain	29.87	758.7	53.5	11.9	.....	sw.	.....	.....	5–6	.....	7	wsw.	.....	.....	.....	6	wsw.	squally.
H. M. Dock Yard, Bermuda, W. I	30.31	769.9	67	19.4	90	ssw.	.....	.....	2–3	.....	3	ssw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Fawn, N. 14° 21′, W. 32° 26′	30.08	764.0	72	22.2	95	nne.	.....	.....	5–6	.....	3	ne.	.....	.....	.....	5	n.	squally
H. M. S. Iron Duke, N. 36° 46′, W. 1° 06′	30.12	765.0	59	15.0	81	wnw.	.....	.....	1	.....	4	nnw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Monarch, Port Said, Egypt	30.03	762.7	66	18.9	64	wsw.	.....	.....	1–2	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Minotaur, Arosa Bay, Spain	29.79	756.7	54	12.2	83	wsw.	.....	.....	5	.....	7	wsw.	.....	.....	.....	.....	.....	squally.
U. S. Navy Yard, Portsmouth, N. H*	29.92	760.0	28	—2.2	?	nw.	24	10.7	.....	.....	0	.....	.....	blank	blank	.....	.....	clear.
U. S. S. Alliance, Key West, Fla	30.16	766.1	76	24.4	95	e.	.....	.....	2	.....	2	.....	.....	0	0	sm'h	.....	clear.
U. S. S. Enterprise, N. 9° 36′, W. 23° 58′*	30.04	763.0	74	23.3	76	ne.	.....	.....	4	.....	8	.....	e.	.....	.....	sm'h	.....	cloudy.
U. S. S. Kearsarge, N. 10° 58′, W. 75° 23′	29.81	757.2	76	24.4	90	ene.	.....	.....	6	.....	0	.....	.....	.....	.....	r'gh	.....	clear.
U. S. S. Lancaster, Corunna, Spain	29.74	755.4	51	10.6	65	wnw.	.....	.....	3	.....	2	.....	w.	.....	.....	sm'h	.....	fair.
U. S. S. Nipsic, N. 22° 51′, W. 57° 51′	30.34	770.6	76	24.4	76	e.	.....	.....	5	.....	5	.....	e.	.....	.....	long	e.	fair.
U. S. S. Quinnebaug, Gibraltar, Mediterranean	30.16	766.1	59	15.0	87	wsw.	.....	.....	4	.....	10	.....	wsw.	.....	.....	sm'h	.....	overcast.
U. S. S. St. Louis, League Island, Pa	30.31	769.9	34	1.1	61	nw.	16	7.2	.....	.....	5	.....	s.	0.40	10.2	.....	.....	fair.
U. S. S. Tennessee, St. Croix, W. I*	30.14	765.5	78	25.6	90	e.	16	7.2	.....	.....	2	.....	.....	0.20	5.1	.....	.....	fair.
U. S. S. Vandalia, Port au Prince, Hayti, W. I *	30.08	764.0	77	25.0	72	ese.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Yantic, N. 20° 12′, W. 94° 36′	30.08	764.0	75	23.9	?	ese.	.....	.....	3	.....	2	.....	.....	.....	.....	sm'h	.....	clear.
S. S. British Crown, N. 49° 22′ W. 18° 12′†	29.04	737.6	42	5.6	.....	wsw.	.....	.....	9	.....	4	.....	wsw.	5 h'r	5 h'r	.....	wsw.	squally.
S. S. British Prince, N. 42° 52′, W. 53° 13′ †	29.73	755.1	44	0.7	.....	sw.	.....	.....	5	.....	10	.....	.....	8 h'r	8 h'r	mod.	sw.	rain-squalls
S. S. Illinois, N. 39° 42′ W. 65° 56′	29.79	756.7	51	10.6	93	wnw.	.....	.....	5	.....	10	.....	nw.	.....	.....	sm'h	wsw.	overcast.
S. S. Indiana, N. 45° 25′, W. 29° 58′	.....	.....	47	8.3	85	nw.	.....	.....	6	.....	2	.....	nw.	0	0	h'vy	nw.	fine.
S. S. Lord Gough, N. 42° 50′, W. 60° 02′	29.51	749.5	38	3.3	.....	sw.	.....	.....	4	.....	10	.....	sw.	8 h'r	8 h'r	mod.	sw.	overcast.
S. S. Ohio, N. 50° 04′ W. 25° 36′	.....	.....	38	3.3	90	wnw.	.....	.....	7	.....	9	.....	wnw.	.....	.....	h'vy	wnw.	squally.
S. S. Circassian, N. 43° 30′, W. 59° 30′*	29.53	750.0	17	— 8.3	.....	wnw.	.....	.....	6	.....	10	.....	wnw.	8 h'r	8 h'r	4	wsw.	rain & fog.
S. S. Nova Scotian, N. 53° 17′, W. 22° 30′	28.85	732.8	36	2.2	.....	w.	.....	.....	6	.....	5	.....	w.	.....	.....	high	w.	fair.
S. S. Manitoban, N. 41° 35′, W. 51° 45′	29.56	750.8	30	— 1.1	.....	wsw.	.....	.....	4	.....	10	.....	var.	6 h'r	8 h'r	h'vy	nw.	cloudy.
S. S. Scandinavian, N. 52° 35′ W. 25° 25′	29.06	738.1	30	— 1.1	.....	wnw.	.....	.....	8	.....	10	.....	wnw.	snow	snow	high	wnw.	snowing.
S. S. Stella, N. 45° 08′, W. 36° 40′	29.91	759.8	39.2	4	.....	w.	.....	.....	6	.....	8	.....	w.	3 h'r	3 h'r	6	wnw.	drizzling.
S. S. Ailsa, Port Limon, Costa Rica†	30.02	762.5	84	28.9	83	ene.	.....	.....	2	.....	10	.....	ene.	4 h'r	4 h'r	sm'h	ene.	overcast.
S. S. Anchoria, N. 52° 58′, W. 25° 41′ †	29.24	742.7	.....	.....	.....	w.	.....	.....	6	.....	5?	.....	w.	snow	snow	h'vy	wnw.	overcast?
S. S. Assyria, N. 32° 43′, W. 36° 52′	30.56	776.2	61	16.1	82	e.	.....	.....	2	.....	2	.....	wsw.	.....	.....	h'vy	n.	clear.
S. S. Bolivia, N. 40° 35′, W. 63° 20′	29.73	755.1	55	12.8	.....	n.	.....	.....	4	.....	10	.....	.....	10 h'r	10 h'r	r'gh	.....	raining.
S. S. Dorian, N. 43° 04′, W. 62° 40′	29.52	749.8	39	3.9	.....	wsw.	.....	.....	6	.....	10	.....	wnw.	snow	snow	r'gh	sw.	threatening.
S. S. Landaff City, New York, N. Y†	30.25	768.3	31	— 0.6	.....	w.	.....	.....	5	.....	5	.....	w.	12 h'r	12 h'r	.....	.....	cloudy.
S. S. Pavonia, N. 44° 24′, W. 45° 21′	29.60	751.8	41	5.0	91	sse.	.....	.....	4	.....	10	.....	.....	8 h'r	8 h'r	mod.	w.	sleeting.
S. S. Pereire, N. 48° 40′, W. 34° 20†	29.62	752.3	37.4	3	.....	wnw.	.....	.....	8	.....	9	.....	sw.	rain	rain	h'vy	wnw.	sprinkling.
S. S. Ville de Marseilles, N. 21° 56′ W. 90° 05′	.....	.....	75	23.9	.....	e.	.....	.....	4	.....	2	.....	e.	o	o	mod.	e.	clear.
S. S. Abyssinia, N. 48° 14′, W. 37° 00′	29.72	754.9	45	7.2	92	wnw.	.....	.....	7	.....	10	.....	wnw.	3 h'r	3 h'r	r'gh	nw.	hail squalls.
S. S. Wyoming, N. 51° 02′, W. 14° 15′	28.68	728.5	41	5.0	.....	w.	.....	.....	10	.....	6	.....	wnw.	o	o	h'vy	w.	
S. S. Bohemia, N. 47° 40′, W. 27° 40†	29.52	749.8	.....	.....	.....	wsw.	.....	.....	7–8	.....	7 k	.....	wnw.	8 h'r	8 h'r	h'vy	wnw.	hailing.
S. S. Silesia, N. 47° 07′, W. 42° 42′†	29.71	754.6	.....	.....	.....	wsw.	.....	.....	2–3	.....	10	.....	.....	4 h'r	4 h'r	5-6	wnw.	cloudy.
S. S. Vandalia, River Elbe, Germany	29.99	761.7	37.4	3.0	96	w.	.....	.....	3–4	.....	5	.....	w.	.....	.....	.....	.....	fair.
S. S. Bulgarian, N. 48° 53′, W. 36° 33′*	29.76	755.9	.....	.....	.....	w.	.....	.....	8	.....	8	.....	nw.	9 h'r	9 h'r	high	nw.	
S. S. Virginian, N. 48° 26′ W. 26° 00′ *	29.53	750.0	42	5.6	.....	wnw.	.....	.....	7	.....	6	.....	wnw.	4 h'r	4 h'r	hv'y	nw.	squally.
S. S. Archimedes, N. 15° 33′, W. 26° 00′	30.09	764.3	.....	.....	.....	ne.	.....	.....	6	.....	2	.....	ne.	o	o	long	ne.	fair.
S. S. Colorado, Galveston Bar, Texas†	30.18	766.6	57	13.9	.....	se.	.....	.....	2	.....	fg.	.....	se.	o	o	small	se.	foggy.
S. S. Rio Grande, N. 35° 03′ W. 75° 17′†	30.09	764.3	50	10.0	.....	sw.	.....	.....	4	.....	10	.....	sw.	5 h'r	5 h'r	chop	.....	dense fog.
S. S. Chalmette, N. 34° 28′ W. 76° 13′†	30.23	767.8	55	12.8	.....	sw.	.....	.....	5	.....	10	.....	.....	1 h'r	1 h'r	long	s.	hazy.
S. S. New York, N. 24° 35′, W. 81° 07′ †	30.27	768.8	76	24.4	.....	se.	.....	.....	3	.....	1	.....	se.	o	o	sm'h	.....	clear.
S. S. Lone Star, N. 27° 45′ W. 87° 25′†	30.19	766.8	74	23.3	.....	calm	.....	.....	0	.....	5	.....	.....	o	o	small	se.	fine.
S. S. Hermod, N. 49° 12′, W. 14° 20′†	29.12	739.6	50	10.0	.....	w.	.....	.....	7	.....	9	.....	w.	16 h'r	16 h'r	high	var.	threatening.
S. S. Alleghany, Boston, Mass †	30.02	762.5	32	0.0	.....	nw.	.....	.....	4	.....	2	.....	w.	o	o	.....	.....	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
S. S. Archimede, N. 33° 01′, W. 36° 51′†	30.57	776.5	68	20.0	.....	w.	.....	.....	1	.....	2	.....	w.	0	0	hv'y	nw.	clear.
S. S. Picqua, N. 36° 04′, W. 19° 25′	.....	.....	62	16.7	.....	nw.	.....	.....	4	.....	4	.....	nw.	3 h'r	3 h'r	long	nw.	fair.
S. S. City of Merida, N. 26° 07′, W. 80° 00′†	30.29	769.4	79	26.1	.....	ese.	.....	.....	3	.....	2	.....	se.	2 h'r	2 h'r	light	se.	fine.
S. S. City of Washington, N. 19° 06′, W. 96° 09′†	30.08	764.0	77	25.0	.....	var.	.....	.....	2	.....	2	.....	e.	0	0	sm'h	.....	fine.
S. S. Santiago, N. 19° 45′, W. 76° 45′	30.10	764.5	77	25.0	.....	ne.	.....	.....	1	.....	0	.....	.....	0	0	mod.	ese.	fine.
S. S. Egypt, N. 46° 58′, W. 36° 13′*	29.74	755.4	34	1.1	.....	nw.	.....	.....	5	.....	10	.....	wnw.	7 h'r	7 h'r	h'vy	nw.	cloudy.
S. S. England, N. 50° 31′, W. 27° 10′	29.30	744.2	.....	.....	.....	wnw.	.....	.....	7	.....	8	.....	wnw.	sq 'lls	sq 'lls	h'vy	wnw.	squally.
S. S. The Queen, N. 49° 06′, W. 24° 40′	29.55	750.6	37	2.8	.....	w.	.....	.....	8	.....	8	.....	w.	hail	hail	h'vy	wnw.	squally.
S. S. America, N. 48° 22′, W. 18° 43′*	29.33	745.0	43.0	6.1	92	wnw.	.....	.....	7	.....	5	.....	wnw.	3 h'r	3 h'r	h'vy	wnw.	squally.
S. S. Braunschweig, N. 28° 37′, W. 19° 45′	30.35	770.9	77.0	25.0	86	n.	.....	.....	3	.....	8	.....	n	o	o	light	n.	fair.
S. S. Donau, N. 48° 10′, W. 31° 10′	29.74	755.4	.....	.....	.....	w.	.....	.....	7–8	.....	8	.....	w.	8 h'r	8 h'r	h'vy	w.	squally.
S. S. Hermann, N. 39° 32′, W. 67° 07′	29.90	759.4	39.2	4.0	67	nw.	.....	.....	5	.....	8?	.....	nw.	8 h'r	8 h'r	5	nw.	cloudy.?
S. S. Wesser, N. 50° 30′, W. 1° 17′	29.43	747.5	.....	.....	.....	ssw.	.....	.....	5–6	.....	8	.....	sw.	o	o	rg'h	sw.	cloudy.
S. S. Muriel, St. Kitts, Windward Island, W. I*	30.11	764.8	78	25.6	.....	ene.	.....	.....	5	.....	0	.....	.....	.....	.....	sm'h	.....	.....
S. S. Belgenland, N. 47° 37′, W. 23° 10′*†	29.50	749.3	43	6.1	100	w.	.....	.....	9	.....	8	.....	w.	2 h'r	2 h'r	h'vy	wnw.	squally.
S. S. Nederland, N. 47° 45′, W. 33° 13′	.....	.....	39	3.9	91	wnw.	.....	.....	6	.....	5	.....	w.	5 h'r	5 h'r	r'gh	w.	squally.
S. S. Rhynland, N. 49° 40, W. 0° 20′	29.23	742.4	49	9.4	93	wsw.	.....	.....	8	.....	5	.....	wsw.	2 h'r	2 h'r	high	w.	squally.
S. S. Pennland, Antwerp, Belgium	29.88	758.9	49	9.4	78	se.	.....	.....	4	.....	3	.....	sw.	12 h'r	12 h'r	.....	.....	fine.
S. S. Switzerland, N. 41° 53′, W. 63° 15′†	29.66	753.4	.....	.....	.....	sw.	.....	.....	4	.....	10	.....	wnw.	7 h'r	7 h'r	long	wsw.	foggy.
S. S. Waesland, Jersey City, N. J	30.25	768.3	31	— 0.6	.....	w.	.....	.....	4	.....	3	.....	nw.	10 h'r	10 h'r	.....	.....	clear.
S. S. Zeeland, Antwerp, Belgium*†	29.80	756.9	58	14.4	.....	s.	.....	.....	3	.....	1	.....	sse.	6 h'r	6 h'r	sm'h	.....	fair.
S. S. P. Caland, N. 48° 35′, W. 31° 39′	29.74	755.4	41.7	5.4	94	w.	.....	.....	6	.....	8	.....	nw.	.....	.....	6	w.	squally.
S. S. Rotterdam, N. 40° 35′, W. 70° 50′†	30.07	763.7	41.0	5.0	81	nw.	.....	.....	6	.....	4	.....	wnw	o	o	6	nw.	fair.
S. S. W. A. Scholten, Rotterdam, Nethlands*	29.78	750.4	47.9	8.8	85	wsw.	.....	.....	6	.....	3	.....	sw.	o	o	.....	.....	
S. S. Caracas, N. 22° 25′, W. 68° 49′†	30.32	770.1	77	25.0	86	e.	.....	.....	6	.....	5	.....	ese.	2 h'r	2 h'r	r'gh	ese.	raining.
S. S. Claudius, Port Cortez, Honduras†	30.11	764.8	73.0	22.8	?	nw.	.....	.....	1	.....	5	.....	.....	o	o	.....	.....	fair.
S. S. Valencia, Curacao, Venezuela†	30.08	764.0	79	26.1	78	ene.	.....	.....	6	.....	3	.....	ene.	o	o	.....	.....	fine.
S. S. State of Florida, Larne, Ireland	28.91	734 3	49	9.4	.....	s.	.....	.....	2	.....	8	.....	ssw.	10 h'r	10 h'r	.....	.....	overcast.
S. S. State of Indiana, N. 40° 40′, W. 71° 20′*†	30.15	765.8	35	1.7	.....	nw.	.....	.....	8	.....	2	.....	w.	8 h'r	8 h'r	mod.	wnw.	clear.
S. S. Romano, N. 49° 07′, W. 7° 55′*	29.37	746.0	49	9.4	.....	wsw.	.....	.....	7	.....	4	.....	sw.	5 h'r	5 h'r	h'vy	wsw.	fair.
S. S. Salerno, Hull, Eng†	29.30	744.2	45	7.2	.....	s.	.....	.....	8	.....	10	.....	sw.	3 h'r	3 h'r	r'gh	se.	raining.
S. S. Brooklyn, N 43° 18′ W. 52° 26′	.....	.....	42	5.6	.....	ssw.	.....	.....	6	.....	.....	.....	w.	10 h'r	10 h'r	h'vy	ssw.	foggy.
S. S. Surrey, N. 44° 11′, W. 56° 39′ †	29.38	746.2	32	0.0	.....	w.	.....	.....	5	.....	.....	.....	.....	8 h'r	8 h'r	mod.	w.	cloudy.
S. S. Olbers, N. 45° 55′, W. 9° 23′ *†	29.45	748.0	52	11.1	.....	wsw.	.....	.....	7	.....	4	.....	var.	4 h'r	4 h'r	h'vy	var.	showery.
S. S. Phantyn, N. 49° 27′, W. 34° 00′	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	4	.....	wnw.	o	o	high	nnw.	
S. S. Catherine Whiting, Providence, R. I†	30.15	765.8	80	26.7	.....	nw.	.....	.....	6	.....	0	.....	.....	o	o	.....	.....	
S. S. Norman, N. 39° 00′, W. 75° 04′*†	30.42	772.7	.....	.....	.....	nnw.	.....	.....	.....	.....	.....	.....	nnw.	8 h'r	8 h'r	rg'h	se.	cloudy.
S. S. Britannic, N. 41° 22′, W. 59° 00′ †	29.72	754.9	57	13.9	?	sw.	.....	.....	6	.....	10	.....	w.	12 h'r	12 h'r	r'gh	sw.	gloomy.
S. S. Celtic, N. 50° 02′, W. 25° 30′†	29.38	746.2	42	5.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	high	.....	squally.
S. S. Chamois, N. 29° 55′, W. 29° 48′	30.50	774.7	65.5	18.6	62	nne.	.....	.....	5	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Commewyne, N. 40° 40′, W. 12° 11′*	29.39	746.5	45.5	7.5	69	w.	.....	.....	7	.....	8	.....	.....	.....	.....	.....	.....	squally.
S. S. City of Agra, N. 19° 30′, W. 44° 04′	30.26	768.6	74.0	23.3	82	ene.	.....	.....	6	.....	8	.....	.....	.....	.....	high	.....	misty.
S. S. Antonio Lopez, San Juan, Porto Rico, W. I	30.13	765.3	75	23.9	86	e.	.....	.....	3	.....	2	.....	.....	2 h'r	2 h'r	mod.	e.	clear.
Schr. Abbie H Gheen, N. 38° 40′, W. 75° 00′†	30.31	769 9	36	2.2	.....	nnw.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	cloudy.
Bg. Abbie Clifford, Cardenas, Cuba, W. I†	30.17	766.3	73	22.8	.....	ene.	.....	.....	1	.....	2	.....	var.	o	o	.....	.....	fair.
Bk. Aquidneck, N. 33° 30′, W. 51° 02′*†	30.50	774.7	.....	.....	.....	var.	.....	.....	2	.....	.....	.....	sw.	o	o	light	n.	clear.
Bg. Alcira, Maracaybo, Venezuela, S. A.	29.96	761.0	83	28.3	.....	e.	.....	.....	1	.....	2	.....	ne.	o	o	.....	.....	clear.
Schr. Annie A. Holton, Tampico, Mexico†	30.05	763.3	75	23.9	.....	calm	.....	.....	0	.....	10	.....	sw.	o	o	sm'h	.....	foggy.
Schr. Annie R. Lewis, St. Pierre, Martinique, W.I†	30.21	767.3	79	26.1	.....	ese.	.....	.....	5	.....	5	.....	ese.	4 h'r	4 h'r	.....	.....	light rain.
Schr. Annie Thorman, N. 9° 59′, W. 35° 07′ *	30.14	765.6	74.7	23.7	91	nne.	.....	.....	6	.....	9kn	.....	ne.	o	o	r'gh	ne.	misty.
Bk. Aureola, Swansea, Wales*†	29.40	746 7	50	10.0	.....	sw.	.....	.....	8	.....	10	.....	sw.	8 h'r	8 h'r	.....	.....	overcast.
Bk. Achille F., N. 51° —′, W. 11° —′†	28.90	734.0	46	7.8	84	ssw.	.....	.....	9	.....	10	.....	ssw.	12 h'r	12 h'r	h'vy	ssw.	squally.
S. Armenia, N. 15° 15′ W. 33° 40′*.	30.09	764.3	72	22.2	80	ene.	.....	.....	5	.....	2	.....	ene.	o	o	r'gh	ene.	clear
S. S. Burswell, Holyhead, Eng*†	29.10	739.1	.....	.....	.....	sw.	.....	.....	6	.....	6	.....	ssw.	8 h'r	8 h'r	sm'h	.....	fair.
Bk. Bremen, N. 38° 59′, W. 73° 20′*	30.17	766.3	.....	.....	.....	nnw.	.....	.....	8	.....	8	.....	nnw.	2 h'r	2 h'r	cross	var.	cloudy.
S. S. Benledi, N. 45° 00′, W. 25° 00′ *	29.72	754.9	53	11.7	86	nw.	.....	.....	5–6	.....	4	.....	nw.	6 h'r	6 h'r	h'vy	nw.	squally.
Bkt. Bonny Doon, N. 37° 28′, W. 72° 15′*†	30.08	764.0	.....	.....	.....	nw.	.....	.....	8	.....	10	.....	nw.	'driz'l	driz'l	long	s.	rainy.
Bk. Bare, N. 16° 12′, W. 31° 00′	.....	.....	75	23.9	.....	ene.	.....	.....	5	.....	4	.....	ene.	o	o	mod.	ene.	hazy.
Bk. Pilgrim, N. 30° 28′, W. 45° 45′*†	30.60	777.2	.....	.....	.....	se.	.....	.....	2	.....	0	.....	.....	o	o	mod.	nw.	clear.
Bk. Champion, N. 42° 52′, W. 31° 23′†..	29.88	758.9	58	14.4	.....	wnw.	.....	.....	6	.....	10	.....	w.	20 h'r	20 h'r	cross	wsw.	
Bkt. C. S. Bushnell, off Malaga, Spain	30.13	765.3	.....	.....	.....	calm	.....	.....	0	.....	10	.....	w.	o	o	sm'h	.....	foggy.
S. Cornelius, N. 57° 32′, W. 22° 09′*†	28.60	726.4	42.1	5.6	.....	nnw.	.....	.....	5	.....	4	.....	nne.	o	o	h'vy	w.	fair.
Bk. Commerce, Cadiz, Spain †	30.03	762.7	62	16.7	.....	sw.	.....	.....	6	.....	10	.....	sw.	o	o	.....	.....	foggy.
Bk. Ceres, N. 7° 59′ W., 26° 18′ *.	30.05	763.3	75.6	24.2	74	ne.	.....	.....	5	.....	8	.....	calm	o	o	sm'h	.....	hazy.
Bk. Chas. Stewart, N 27° 30′, W. 39° 30′†.	30.61	777.5	75	23.9	.....	ne.	.....	.....	2	.....	5	.....	ne.	sh'rs	sh'rs	large	var.	
S. S. D. J. Foley, Delaware Bay*†	30.25	768.3	39	3.9	63	nnw.	.....	.....	6	.....	9	.....	.....	o	o	sm'h	nnw.	cloudy.
Schr. Edith R. Seward, Palenque, Hayti, W. I†	30.15	765.8	80	26.7	.....	ne.	.....	.....	2	.....	3	.....	ene.	o	o	sm'h	ese.	clear.
S. E. J. Spicer, N. 40° 24′, W 25° 50′	30.16	766.1	51	10.6	93	nw.	.....	.....	6	.....	5	.....	nw.	18 h'r	18 h'r	high	nnw	fair
Schr. F E. McDonald, N. 30° 40′, W. 78° 39′†	30.30	769.6	.....	.....	.....	sw.	.....	.....	1	.....	0	.....	.....	o	o	.....	.....	fine.
S. S. Foscollo, N. 50° 37′, E. 0° 15′†	29.72	754.9	.....	.....	.....	sse.	.....	.....	7	.....	10	.....	s.	o	o	r'gh	w.	dull.
S. Festina Lente, N. 56° 50′, W. 22° 09′	28.68	728.5	40	4.4	.....	nnw.	.....	.....	5	.....	5	.....	nw.	3 h'r	3 h'r	h'vy	var.	fair.
Bk. Grey Eagle, N. 30° 25′, W. 73° 30′*†	30.25	768.3	.....	.....	.....	s.	.....	.....	3	.....	0	.....	.....	o	o	light	se.	clear.
Bg. Gipsy Queen, N. 20° 06′ W. 72° 06′*†	30.10	764.5	78	25.6	.....	e.	.....	.....	7	.....	1	.....	e.	.....	.....	mod.	e.	clear.
Bk. George, N. 30° 23′, W. 72° 40′*†	30.25	768.3	.....	.....	.....	n.	.....	.....	6	.....	10	.....	n.	sq'lls	sq'lls	mod.	wsw.	cloudy.
Bk. Galeon, Cardiff Roads, Eng	.....	.....	.....	.....	.....	s.	.....	.....	7	.....	.....	.....	.....	.....	.....	.....	.....	
Bk. Henrich & Tonio, N. 39° 07′, W. 73° 30′†	30.28	769.1	37	2 8	.....	nnw.	.....	.....	7	.....	.....	.....	.....	o	o	short	nnw.	clearing.
Schr. Hattie Weston, Mayaro, Trinidad, W. I *†	30.11	764.8	79	26.1	.....	ene.	.....	.....	3	.....	8	.....	ene.	o	o	mod.	e.	cloudy.
Bk. Hattie G. McFarland, Pascagoula, Miss*†	30.32	770.1	68	20.0	.....	calm	.....	.....	0	.....	2	.....	e.	o	o	.....	.....	clear.
Bk. Horace Scudder, N. 23° 40′, W. 42° 48′ *†	30.44	773.2	72	22.2	.....	ene.	.....	.....	6	.....	10	.....	e.	sq'lls	sq'lls	h'vy	e.	cloudy.
Schr. Isabel Alberto, N. 35° 50′, W. 75° 00′ †	30.22	767.6	.....	.....	.....	wsw.	.....	.....	3	.....	10	.....	w.	rain	rain	h'vy	s.	raining.
S. S. J. W. Wilson, Tampico, Mexico*†	30.10	764.5	65	18.3	.....	calm	.....	.....	0	.....	fg.	.....	.....	o	o	.....	.....	foggy.
Schr. John L. Thomas, N. 23° 50′, W. 83° 30′*†	30.30	769.6	.....	.....	.....	e.	.....	.....	3	.....	1	.....	ese.	o	o	short	ene.	clear.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe*†	30.12	765.0	.....	.....	.....	ene.	.....	.....	1	.....	2	.....	e.	1 h'r	1 h'r	.....	.....	
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3	.....	.....	.....	se.	.....	.....	1	.....	0	.....	.....	o	o	.....	.....	fine.
Bk. Mary A. Troop, Sharpness Point, Eng*†	29.28	743.7	.....	.....	.....	w.	.....	.....	7	.....	10	.....	w.	10 h'r	10 h'r	.....	.....	threatening.
Bk. Matilda C. Smith, off Dover, Eng†	29.64	752.8	.....	.....	.....	s.	.....	.....	7	.....	6	.....	sw.	4 h'r	4 h'r	r'gh	s	threatening
Bgt. Myrtle, St. Thomas, W. I	.....	.....	.....	.....	.....	ene.	.....	.....	3	.....	1	.....	ene.	2 h'r	2 h'r	.....	.....	fair.
S. M. P. Grace, N. 28° 18′, W. 44° 57′ *.	30.43	772.9	69	20.6	.....	ene.	.....	.....	3	.....	3	.....	ne.	sli't	sli't	long	nne.	
S. S. Mendoza, N. 35° 40′, W. 61° 00′	.....	.....	.....	.....	.....	ssw.	.....	.....	5	.....	8	.....	sw.	o	o	r'gh	.....	cloudy.
Bkt. Norena, Matanzas, Cuba, W. I*†	30.25	768.3	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	o	o	.....	.....	clear.
Schr. Ocean Traveler, N. 23° 08′, W. 69° 24′†	30.22	767.6	.....	.....	.....	ene.	.....	.....	5	.....	5	.....	.....	.....	.....	.....	.....	squally.
Bk. Ottawa, Torrevieja Road, Spain*	30.01	762.2	63	17.2	.....	ese.	.....	.....	1	.....	3?	.....	.....	o	o	.....	.....	cloudy.?
Bk. Reindeer, N. 14° 05′, W. 61° 12′*.	30.06	763.5	.....	.....	.....	ene.	.....	.....	6	.....	.....	.....	ene.	.....	.....	.....	.....	squally.
S. Rudolph, N. 28° 02′, W. 33° 34′	.....	.....	67.0	19.4	.....	ne.	.....	.....	4	.....	0	.....	ne.	½ h'r	½ h'r	mod.	var.	fair.
Bk. Saga, N. 49° 11′, W. 13° 17′	.....	.....	.....	.....	.....	wsw.	.....	.....	8	.....	.....	.....	.....	sh's	sh's	8–10	w.	hailing.
Bk. Sunbeam, N. 37° 06′, W. 18° 13′	30.19	766.8	58	14.4	69	wnw.	.....	.....	8	.....	5	.....	nw	2 h'r	2 h'r	h'vy	wnw.	fair.
Bk. Scud, N. 19° 26′, W. 64° 00′*†	30.15	765.8	.....	.....	.....	ene.	.....	.....	6	.....	2	.....	ene.	o	o	short	ene.	clear.
Schr. S. B. Hubbard, N. 35° 46′, W. 74° 08′*†	30.33	770.4	52	11.1	.....	sw.	.....	.....	6	.....	.....	.....	wsw.	hv'y	hv'y	r'gh	wsw	stormy.
Bk. Usko, N. 47° 40′, W. 10° 35′*†	29.30	744.2	.....	.....	.....	wsw.	.....	.....	6	.....	2	.....	w.	1 h'r	1 h'r	cross	sw.	fair.
S. Vincenzo Accame, N. 38° 51′, W. 57° 16′*†	29.98	761.5	66.2	19	.....	sw.	.....	.....	7	.....	6	.....	sw.	o	o	r'gh	sw.	
Schr. Viola Reppard, Tybee Island, Gat	30.18	766.6	74	23.3	.....	s.	.....	.....	1	.....	8	.....	calm	o	o	.....	.....	fair.
Schr. Wm. Wilier, Pointe a Pitre, Guadeloupe, W. I.†	30.11	764.8	.....	.....	.....	e.	.....	.....	1	.....	2	.....	e.	3 h'r	3 h'r	.....	.....	fine.
S. Wm. Woodbury, N. 62° 30′, W 12° 12′	28.55	725.2	44	6.7	.....	sse.	.....	.....	0	.....	4	.....	s.	.....	.....	long	s.	clear.
S. S. Colon, N. 34° 43′, W. 73° 13′†	30.17	766.3	71	21.7	.....	w.	.....	.....	7	.....	10	.....	wsw.	o	o	large	w.	overcast.
S. S. Ambrose, N. 13° 15′, W. 57° 10′†	30.18	766.6	78	25.6	.....	e.	.....	.....	6	.....	4?	.....	e.	o	o	7	e.	overcast.?

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2.—South Atlantic.																		
H. M. S. Heroine, S. 37° 38′, W. 55° 16′	29.76	755.9	60	15.6	88	ssw.			5		10	w.				4–5	sw.	thund'r st'm
H. M. S. Starling, S. 5° 46′, E. 4° 40′	29.97	761.2	82	27.8	91	sw.			1–2		0							blue sky
U. S. S. Brooklyn, Montevideo, Uruguay*	29.88	758.9	69	20.6	79	w.			3–6		0							clear.
U. S. S Galena, Montevideo, Uruguay*	29.88	758.9	67	19.4	78	nnw.			3		1	e.		0	0	sm'h		clear.
S. S. Grecian, S. 34° 58′, W. 55° 41′*	29.90	759.4	68	20.0	79	w.			3		0			½h'r	½h'r	sm'h		clear.
S. S. Hevelius, Buenos Ayres†	30.04	763.0	74	23.3		wnw.			5		1			0	0			clear.
S. S. Ptolemy, S. 1° 50′, W. 38° 20′	30.00	762.0	80.5	26.9	88	ese.			6	c	8 k;n		nne.	0	0	3	ne.	gloomy.
S. S. Auckland, S. 1° 17′, W. 26° 07′	30.01	762.2	80	26.7	78	se.			3		2							blue sky.
S. S. May Hulse, S. 54° 16′, W. 63° 40′	29.44	747.8	50	10.0	73	w.			6		5							d. clouds
Bg. Annie R. Storer, S. 1° 12′, W. 39° 35′*†	30.22	767.6				se.			4		1		ese.	0	0	long	n.	fair.
Bk. Edmund Phiney, S. 55° 27′, W. 64° 15′ †	29.51	749.5	51	10.6		w.			4		4			0	0	mod.	sw.	fair.
Bk. E. L. Pettingill, S. 31° 52′, W. 32° 50′*†	30.20	767.1	74	23.3		nnw.			3		10		n.	18 h'r	18 h'r	mod.	n.	rainy.
S. E. B. Sutton, S. 20° 40′, W. 36° 05′†	30.17	766.3	82.5	28.1	79	ne.			3		2		ne.	0	0	sm'h	ne.	fair.
S. Grecian, S. 14° 43′, W. 32° 05′†	30.12	765.0	80	26.7	82	ese.			5		7		se.	sq 'lls	sq 'lls	sm'h		fair.
S. Geo. Stetson, S. 55° — W. 65° — *†	29.60	751.8	45	7.2	84	wsw.			7		4?		w.	0	0		wsw.	cloudy.?
Bkt. Josephine, S. 35° 50′, E. 19° 58′†	29.84	757.9	73	22.8	67	nw.			6		2			0	0	r'gh	nw.	fair.
S. Titan, S. 27° 53′, W. 44° 28′ *†	30.06	763.5	80	26.7	91	ne.			1		3		nne.	0	0	sm'h	nne.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay †	30.00	762.0	67	19.4		wnw.			4		3		w.	0	0			clear.
S. Sacramento, S. 44° 33′, E. 19° 52′ *†	29.60	751.8	51	10.6	86	nw.			4		7		nw.	10 h'r	10 h'r	mod.	wsw.	fair.
District No 3—North Pacific.																		
S. S. Mexico, N. 23° 08′, W. 106° 47′†	29.96	761.0	66	18.9	89	nw.			3		1		nw.			sm'h		clear.
S. S. Arabic, N. 25° 38′, E. 121° 35′*†	30.10	764.5	61	16.1	88	ene.			5		10		ene.	sh'rs	shr's	sm'h		hazy.
S. S. Belgic, N. 29° 07′, E. 129° 06′ *†	30.22	767.6	64	17.8	68	ne.			4		5			0	0	mod	ne.	fair.
S. S. Coptic, N. 38° 07′, W. 130° 30′	29.58	751.3	53.0	11.7	80	sw.			5		8		sw.	8 h'r	8 h'r	sli't	se.	raining.
S. S. Gaelic, N. 46° 05′, E. 171° 51′	30.39	771.9	37	2.8	100	nw.			4		2		wnw.	0	0		ese.	clear.
S. S. Oceanic, N. 33° 00′, W. 167° 06′ *	30.11	764.8	63	17.2	89	ne.			6		6		e.			light	ne.	fair.
S. S. Oregon, N. 38° 51′ W. 123° 51′			47	8.3	62	sse.			3		8		s.			light	sw.	cloudy.
S. S. Mississippi, Seattle, Wash. Ter†	29.36	745.7	41	5.0	74	e.			2		10		se.					light rain.
S. S. Willamette, Seattle, Wash. Ter†	29.38	746.2	40	4.4	91	s.			5		9		s.	0.04	1.0			rainy.
S. S. Ancon, San Francisco, Cal†	29.79	756.7	41	5.0	91	ese.			2		8		se.					gloomy.
S. S. City of Chester, San Francisco, Cal *†	29.85	758.2	42	5.6	66	se.			1		5			0	0			fair.
S. S. Dakota, N. 44° 38′, W. 124° 40′*†	29.35	745.5	40	4.4	100	se.			9		10		se.	6 h'r	6 h'r	h'vy	sse.	cloudy.
S. S. G. W. Elder, N. 44° 04′, W. 124° 53′†	29.49	749.0	46	7.8	84	e.			4		10			light	light	large	w.	cloudy.
S. S. Orizaba, N. 33° 46′, W. 118° 25′*†	29.90	759.4	50	10.0	72	sw.			3				wsw.	6 h'r	6 h'r	sm'h	nw.	cloudy.
S. S. State of California, N. 45° 50′, W. 124° 10′†	29.36	745.7	38	3.3	100	sse.			6		10		s.			h'vy	s.	snowing.
S. S. City of Pekin, Hong Kong, China †.	30.05	763.3	57	13.9	87	ne.			6		10		e.					cloudy.
S. S. City of Tokio, N. 35° 27′, W. 142° 45′ †	30.07	763.8	57	13.9	75	n.			6		5		n.	0	0	h'vy	nne.	hazy.
S. S. City of Rio de Janeiro, Panama Panama			74	23.3	90	nnw.			1		1		nnw.	0	0			fine.
S. S. Colima, N. 14° 29′ W. 92° 20′ †	29.95	760.7	77	25.0	95	ene.			3		3		ne.	0	0	mod.	ese.	clear.
S. S. Grenada, N. 20° 08′, W. 105° 40†	29.85	758.2	73	22.8	81	n.			3		0			0	0	sm'h	w.	clear.
S. S. Zealandia, N. 9° 48′, W. 159° 33′	29.85	758.2	74	23.3	90	e.			5		10					h'vy	e.	rainy.
H. M. S. Curacoa, Yokohama, Japan	30.23	767.8	41.5	5.3	74	n.			1–2		0							blue sky
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.88	758.9	69	20.6		calm			0		10							raining.
U. S. Naval Hospital, Yokohama, Japan*	30.16	766.1	33	0.6	80	calm			0		0			0.03	0.8			clear.
U. S. S Independence, Mare Island, Cal	29.98	761.5	37	2.8	80	e.			3		5			0	0			fair
U. S. S. Lackawanna, Honolulu, Sandwich. Islands*	29.76	755.9	71	21.7	85	ene.			1		5		e.					fair.
U. S. S. Monocacy, Amoy, China	30.14	765.5	63	17.2	72	ne.			1		10		ne.					cloudy.
U. S. S. Palos, Tientsin, China*	30.36	771.1	32	0.0	90	e.			1		10		calm					cloudy
U. S. S. Ranger, N. 37° 51′, W. 122° 24′	29.97	761.2	46	7.8	69	se.			2		2		calm	0	0	sm'h		fair.
U. S. S. Richmond, Hong Kong, China*	30.00	762.0	59	15.0	88	e.			3		10		sse.	0	0			cloudy.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.76	755.9	68	20.0	95	calm			0		2		e.			sm'h		misty.
S. S. Scotia, N. 5° 33′, E. 107° 23′	29.90	759.4	77	25.0	86	nne.			3		8							d. clouds
S. Henry Failing, N. 44° 37′, W. 126° 25′ †	29.25	742.9	42	5.6		ssw.			6				sw.	sleet	sleet	cross	sse.	squally.
S. St. Francis, N. 25° 00′, W. 126° 00′ †	30.05	763.3	65	18.3		sw.			6		8		sw.	1 h'r	1 h'r	mod.	ne.	cloudy.
Tamega, Macao, China	30.09	764.2	60.8	16	84	e.			3		10			0	0			overcast.
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.89	759.2	68.5	20.3	97	sse			1		8	ese.				2		misty.
H. M. S. Kingfisher, S. 12° 13′, W. 78° 52′	29.93	760.2	72	22.2		sse.			3		7					4	sse.	d. clouds
H. M. S. Lark, S. 36° 50′, E. 174° 49′	30.38	771.6	73.3	22.9	85	nne.			1		9					sm'h		d. clouds.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.93	760.2	64	17.8		nne.			3							3	nne.	d. clouds
H. M. S. Rocket, S. 49° 20′, W. 74° 20′	29.98	761.5	56	13.3	94	calm			0		5							d. clouds.
H. M. S. Swiftsure, S. 0° 02′, W. 103° 12′	29.93	760.2	75	23.9	100	se.			1–2		6	se.						d. clouds.
H. M. S. Sylvia, Anna Id, Patagonia	29.65	753.1	49.7	9.8	93	nw.			3–5		8							squally.
U. S. S. Essex, Callao, Peru	29.86	758.4	68	20.0	90	sse.			1		10							foggy.
U. S. S. Iroquois, S. 28° 50′, W. 97° 44′	30.14	765.5	71	21.7	66	sse.			4		8?		se.			sm'h	se.	clear?
U. S. S. Onward, Callao, Peru*†	30.02	762.5	65	18.3	100	sse.			2		10		n.					foggy.
U. S. S. Pensacola, Callao, Peru *	29.84	757.9	67	19.4	95	sse.			1		10			0	0	sm'h		foggy.
British Merchant, S. 23° 00′, W. 129° 55′	29.98	761.5	76.2	24.6	77	se.			3		2							d. clouds
Bk. Childwall, S. 11° 53′, W 135° 00′ *	29.83	757.7	79	26.1		e.			3		2		e.	⅛h'r	⅛hr	sm'h		fine.
Bk. Gronsvaer, Auckland, N. Z †	30.20	768.7	76.8	24.9		ne.			2		5		ne.	0	0			fair.
S. S. Australia, Sydney, N. S. W *	29.58	751.3	74	23.3	95	n.			1		1		nw.	0	0			clear.
S. S. City of Sydney, Sydney, N. S. W †	29.78	756.4	75	23.9	72	sw.			3		2		sw.	0	0			fair.
H. M. S. Gannet, S. 12° 04′, W. 77° 14′	29.87	758.7	69	20.6	92	sse.			1		6					2	s.	foggy.
Bk. Warden Law, S. 26° 30′ W. 83° 20′*	30.27	768.8				ese.			3		10		se.	0	0	sm'h	se.	covered.
S. Sovereign of the Seas, S. 51° 10′, W. 94° 54′ *†	29.95	760.7	49	9.4	93	sw.			2		6		sw.	1 h'r	1 h'r	high	wsw.	fair.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 6° 10′, E. 39° 11′	29.85	758.2	85	29.4		nne.			3–4		5	ene.				2	nnw.	d. clouds.
H. M. S. Eclipse, N. 28° 59′, E. 50° 48′	29.99	761.7	64	17.8		ene.			1		1	nnw.						blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.88	758.9				nne.			2		5	calm				2	nne.	d. clouds
S. S. Galatia, N. 24° 55′, E. 36° 00′ †	30.01	762.2	74	23.3	76	nnw.			2		0			0	0	mod.	nw.	clear.
Bk. Essex, S. 35° 20′, E. 25° 15′ *†	29.72	754.9	84	28.9		nnw.			3		2		nw.	0	0	high	n.	fine.

International Chart I. February 12, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B.Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 13, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.22	767.5	59.0	15.0	83	s.	.....	.....	1	.....	1	.....	.....	0	0	very fair.....	Malaterre.
Algiers	.....	.....	30.20	767.1	54.7	12.6	61	w.	.....	.....	6	.....	10	.....	.....	0.079	2.0	covered.....	Thève.
La Calle	.....	.....	30.10	764.4	62.6	17.0	70	nw.	.....	.....	5	.....	2	.....	.....	0	0	fair.....	Fonfrède.
Tunis	.....	.....	30.17	766.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.24	768.0	55.0	12.8	80	w.	.....	.....	2	.....	4	.....	.....	0	0	cloudy.....	Pérès.
Tebessa	.....	.....	30.26	768.6	61.9	16.6	56	nnw.	.....	.....	1	.....	4	.....	.....	0	0	cloudy	Dognon.
Geriville	.....	.....	.....	.....	50.0	10.0	52	nne.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair..	Forfert.
Laghouat	.....	.....	30.24	768.2	61.2	16.2	36	nne.	.....	.....	3	.....	2	.....	.....	0	0	fair.....	Abraham.
Biskra	.....	.....	30.26	768.6	64.4	18.0	30	nw.	.....	.....	1	.....	6	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.96	761.0	30.05	763.3	62.0	16.7	77	sse.	5	2.2	.....	.....	6	.....	.....	0.09	2.3	fine.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.65	753.0	30.22	767.5	40.1	4.5	87	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Ivan Stezir.
Oracow, I. R Observatory	29.43	747.5	30.23	767.9	35.6	2.0	78	ene.	6.3	2.8	.....	.....	1	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.37	746.1	30.30	769.7	32.4	0.2	71	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.91	734.4	30.22	767.6	36.1	2.3	89	e.	.....	.....	2	.....	10	.....	.....	0.012	0.3	.....	Andreas Rospini.
Hermannstadt	28.82	732.0	30.32	770.2	33.4	0.8	65	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.68	728.4?	30.47?	763.9?	34.2	1.2	83	ssw.	.....	.....	1	.....	10	.....	.....	0	0	gloomy.....	The Staff.
Lemberg	29.34	745.1	30.37	771 5	33.1	0.6	41	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.78	680.1	30.20	767.0	47.7	8.7	23	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.00	763.5	30.17	766.4	50.9	10.5	79	se.	.....	.....	1	.....	9	.....	.....	0.110	2.8	.....	I. R. Hydrographic Office.
Szathmar	29.79	756.6	30.25	768.4	44.4	6.9	35	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	Joseph Midlinszay, S. J.
Szegedin	29.97	761.1	30.26	768.5	38.1	3.4	68	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.07	763.8	30.17	766.3	47.8	8.8	87	calm	.....	.....	0	.....	10	.....	.....	0.031	0.8	.....	Royal Academy.
Vienna	29.46	748.2	30.21	767.2	37.8	3.2	76	se.	.....	.....	2	.....	9	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.41	747.0	29.51	749.5	42.7	5.9	63	s.	21	9.4	.....	.....	3	.....	.....	0.230	5.8	blue sky.....	W. Boswell
Armagh, Observatory	29.28	743.7	29.51	749.5	40.0	4.4	73	ssw.	22	9.8	.....	.....	7	.....	.....	.....	.....	squally.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.68	753.9	43.7	6.5	63	s.	20	8.9	.....	.....	4	.....	.....	.....	.....	d. clouds.....	John Hartnup.
Bolton, Sharples	29.17	740.9	29.71	754.0	40.5	4.7	80	ssw.	18	8.0	.....	.....	7	.....	.....	.....	.....	squally.....	Thomas Mackereth.
Bradford, Yorkshire	29.30	744.2	29.69	754.1	41.6	5.3	77	se.	.....	.....	2	.....	5	.....	.....	0	0	d. clouds	McLandsborough&Preston.
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	80.0	26.7	70	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	gloomy.....	Corpl. J. Surgenor, A. H. C
Cardington	29.73	755.1	29.83	757.7	48.0	8.9	66	sw.	.....	.....	3.0	.....	2	.....	.....	.....	.....	blue sky.....	John McLaren.
Chatham, School M. E	29.77	756.1	29.90	759.4	48.5	9.2	67	sw.	.....	.....	2	.....	6	.....	.....	blank	blank	d. clouds.....	Corpl. G. A. Pickles.
Falmouth, Observatory	29.59	751.6	29.82	757.4	40.8	8.2	73	ssw.	.....	.....	4	.....	6	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.55	699.8	29.78	756.4	77.2	25.1	68	calm	.....	.....	0	.....	9	.....	.....	.....	.....	overcast.....	Corpl. F. Milner, A. H. C.
Freetown	29.61	752.1	29.84	757.9	87.0	30.6	84	e.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	29.44	747.8	29.48	748.8	40	4.4	82	sw.	.....	.....	5	.....	8	.....	.....	0.40	10.2	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.27	768.8	30.32	770.1	60.0	15.6	95	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky.....	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.29	744.0	29.50	749.3	43.0	6.1	60	s.	.....	.....	4	.....	8	.....	.....	.....	.....	d. clouds.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.71	754.6	29.89	759.2	47.0	8.3	69	sw.	.....	.....	3	.....	6	.....	.....	.....	.....	d. clouds.....	The Staff.
Guernsey	29.58	751.3	29.88	758.9	47.3	8.5	79	sw.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky.....	A. Collenette, F. M. S.
Kew, Observatory	29.84	757.9	29.88	758.9	44.3	6.8	67	ssw.	21	9.4	.....	.....	7	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.52	749.8	29.78	756.4	45.0	7.6	69	sw.	.....	.....	2	.....	6	.....	.....	.....	.....	d. clouds.....	J. C. Smith.
Malta, Mediterranean	30.10	764.5	30.18	766.6	59.4	15.2	94	nw.	.....	.....	2	.....	7	.....	.....	0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.20	767.1	30.25	768.3	74.8	23.8	88	e.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe.
Oscott, St. Mary's College	29.24	742.7	29.77	756.1	43.9	6.6	73	s.	.....	.....	5	.....	5	.....	.....	.....	.....	d. clouds.....	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.61	752.1	29.84	757.9	42.2	5.7	70	ssw.	.....	.....	5	.....	8	.....	.....	.....	.....	squally.....	The Staff.
Plymouth	29.74	755.4	29.82	757.4	47.6	8.7	74	sw.	.....	.....	4	.....	5	.....	.....	.....	.....	d. clouds.....	John Merrifield.
Sandwick Manse, Orkneys	29.20	741.7	29.30	744.2	42	5.6	69	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky.....	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.09	764.3	30.16	766.1	33.4	0.8	89	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	snowing.....	W. H. Lyne.
Sheffield	29.46	748.3	29.74	755.4	44.9	7.2	71	sw.	.....	.....	4	.....	6	.....	.....	0	0	d. clouds.....	W. F. Cooper.
Silloth Rectory	29.55	750.6	29.58	751.3	42.8	6.0	77	sw.	.....	.....	6	.....	10	.....	.....	0.070	1.8	overcast.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.71	754.6	41.0	5.0	77	s.	23	10.3	.....	.....	6	.....	.....	.....	.....	d. clouds.....	Rev. S. J. Perry.
Stratfield Turgiss	29.66	753.4	29.89	759.2	44.3	6.8	82	sw.	.....	.....	2	.....	5	.....	.....	.....	.....	showery....	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	29.80	750.9	29.86	758.4	52	11.1	79	sw.	.....	.....	6	.....	6	.....	.....	.....	.....	d. clouds,...	W. Newcombe.
Valencia, Observatory	29.53	750.0	29.56	750.8	41.2	5.1	77	sw.	24	10.7	.....	.....	7	.....	.....	blank	blank	squally.....	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.73	755.1	30.12	765.0	58.3	14.6	63	sw.	.....	.....	.....	0	0	.....	.....	0	0	clear.....	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	6	—14.4	.....	calm	0	0	.....	0	0	.....	.....	0	0	blue sky.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.25	768.3	30.30	769.6	11	—11.7	80	nw.	8	3.6	.....	2 cs	2 s	calm	calm	0.150	3.8	fair.....	H. J. Cundall, C. E.
Chatham, N. B*	30.29	769.4	30.36	771.1	0	—17.8	100	w.	1	0.4	.....	8 c	2 ks	W.	W.	0.02	0.5	fair.....	G. A. Blair.
Cornwall	30.25	768.3	30.46	773.7	5.8	—14.6	100	sw.	.....	.....	1	0	0	.....	.....	0	0	blue sky.....	Jas. Smith, M. A.
Dalhousie	30.25	768.3	30.31	769.9	0.5	—17.5	.....	calm	.....	.....	0	0	1 s	.....	.....	0	c	blue sky.....	H. A. Johnson.
Father Point, Quebec*	30.25	768.3	30.27	768.8	14	—10.0	87	sw.	35	15.6	.....	8 cs	2 s	calm	w.	inap.	inap.	cloudy.....	J. McWilliams.
Fort Garry, Manitoba*	29.29	744.0	30.26	768.6	—16	—26.7	44	s.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	James Stewart.
Fredericton	30.34	770.0	30.42	772.7	10.9	—11.7	82	nw.	1	0.4	.....	.....	10 s	.....	.....	inap.	inap.	overcast.....	Prof. Harrison, L. L. D.
Granton	29.30	744.2	30.54	775.7	— 4.7	—20.4	93	calm	0	0	.....	0	0	.....	.....	0	0	blue sky.....	Jas. Grant.
Halifax, N. S*	30.26	768 0	30.40	772.1	13	—10.0	87	w.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	A. Allison.
Hamilton	30.04	763.0	30.46	773.7	10.7	—11.8	91	sw.	.....	.....	1	3 ck	0	.....	.....	0	0	blue sky.....	Geo. Dickson, B. A.
Kingston, Ontario*	30.14	765.5	30.51	774.9	10	—12.2	87	e.	2	0.9	.....	5 cs	0	W.	.....	0	0	hazy.....	A. P. Knight, M. A.
Montreal, Quebec*	30.23	767.8	30.46	773.7	11	—11.7	83	sw.	18	8.0	.....	5 c	2 s	W.	.....	0	0	fair.....	C. H. McLeod, C. E.
Ottawa	30.21	767.3	30.49	774.4	— 4.8	—20.4	100	s.	.....	.....	1	1 cs	0	.....	.....	0	0	blue sky.....	A. McGill, M. A.
Parry Sound, Ontario*	29.69	754.1	30.48	774.2	0	—17.8	68	se.	8	3.6	.....	0	2 ks	.....	se.	0	0	fair.....	Rev. R. Mosley.
Peterboro	29.72	754.9	30.60	777.2	—10.7	—23.7	40	calm	.....	.....	0	0	5 s	.....	.....	0	0	d. clouds....	J. Dixon, B. A.
Port Dover, Ontario	29.75	755.0	30.54	775.7	2	—16.7	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	foggy.....	H. Morgan.
Port Stanley, Ontario	29.79	756.7	30.53	775.4	— 2	—18.9	96	ne.	1	0.4	.....	0	5 s	.....	W.	0	0	fair.....	M. Payne.
Quebec, Quebec*	30.07	763.8	30.43	772.9	6	—14.4	76	sw.	.....	.....	1	5 c	5 k	W.	.....	0	0	.....	Capt. Ashe, R. N
Rockliffe, Ontario*	29.94	760.5	30.48	774.2	—11	—23.9	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.69	754.1	30.48	774.2	10	—12.2	96	sw.	15	6.7	.....	2 cs	0	.....	.....	inap.	inap.	clear.....	
St. Andrews, N. B	30.38	771.0	30.43	772.9	15	— 9.4	82	nw.	1	0.4	.....	0	hz.	.....	.....	0	0	clear.....	
St. John, N. B	30.26	768.6	30.44	773.2	16	— 8.9	100	n.	4	1.8	.....	5 ck	.....	.....	.....	0	0	blue sky	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.96	761.0	14.7	— 9.6	.....	nw.	.....	.....	7	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	29.11	739.4	30.58	776.7	— 5.6	—20.9	94	calm	0	0	.....	.....	10	.....	.....	0	0	foggy.....	C. J. Macgregor, M. A.
Sydney, C. B*	30.15	765.8	30.21	767.3	13	—10.6	87	w.	8	3.6	.....	0	8 k	.....	nw.	0.18	4.6	fair.....	T. C. Hill, C. E.
Toronto, Ontario*	30.10	764.5	30.54	775.7	4	—15.6	83	calm	0	0	.....	2 cs	2 s	W.	W.	0	0	fair	Magnetic Observatory.
Windsor	30.27	768.8	30.37	771.4	14.0	—10.0	82	w.	8	3.6	.....	1 c	0	.....	.....	0	0	.....	Prof. W. H. Butler, M. A.
Woodstock	29.37	746.0	30.60	777.2	— 6.0	—21.1	100	nw.	6.0	2.7	.....	8 k	0	W.	.....	0	0	d. clouds.....	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.37	771.4	30.44	773.2	20	— 6.7	76	ne.	1	0.4	.....	2 ck	0	W.	.....	0	0	fair.....	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
Cape Colony.																		
Cape St. Francis Lt. House	30.03	762.7	30.06	763.5	70.0	21.1	76	wsw.	16.0	7.2	.....	0	2 s	.....	.....	0	0	light haze...	**John Duthie.**
Springbok Fontein	27.86	707.6	.....	.....	77	25.0	61	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**J. T. Eustace.**
Chinese (*Sub-series*).																		
Sung-shu-chwang	24.58	624.3	.....	.....	25.3	— 3.7	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.30	769.6	30.41	772.4	32.0	0.0	100	ne.	.....	.....	1	.....	10	.....	.....	0.701	17.8	covered	R. P. Desurmont, S.J.
Zi-Ka-Wei, near Shanghai	30.18	766.5	30.20	767.1	50.7	10.4	97	se.	16.1	7.2	.....	.....	10 n	.....	.....	0.480	12.2	raining	M. Marc Dechevrens, S.J.
Danish.																		
Copenhagen	30.02	762.5	30.07	763.7	36.5	2.5	84	sse.	20	9	.....	.....	0	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	29.94	760.4	29.96	760.9	37.6	3.1	90	s.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	28.84	732.6	28.89	733.7	19.6	— 6.9	100	nne.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	28.60	726.5	28.62	727.0	3.6	—15.8	.....	calm	.....	.....	0	.....	9	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.07	738.4	29.12	739.6	—15.2	—26.2	.....	calm	.....	.....	0	.....	1	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.34	719.7	28.38	720.8	32.0	0.0	90	w.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	28.93	734.9	28.97	735.8	41.5	5.3	85	s.	33	15	.....	.....	7	.....	.....	.....	.....	rain & sleet.	**Overloerer Bergh.**
Vestervig	29.84	758.0	29.93	760.3	37.0	2.8	93	sse.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	**Loerer Oesterbol.**
Upernavik, Greenland	29.07	738.4	29.12	739.6	— 8.9	—22.7	.....	nw.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	
French.																		
Agen, Normal School	29.55	750.5	30.22	767.5	43.5	6.4	91	wnw.	.....	.....	1	.....	n	.....	sw.	0.228	5.8	.....	M. Labroue, Director.
Alençon, Normal School	29.43	747.4	29.98	761.4	41.4	5.2	97	s.	.....	.....	2	.....	k	n.	n.	0.24	6.	.....	M. Nicot, Director.
Arras, Engineer School	29.78	756.3	30.04	762.9	47.8	8.8	85	sw.	.....	.....	1	.....	k	.....	.....	0.122	3.1	.....	M. **Fénéon, Command't.**
Avignon, Normal School	29.90	759.5	29.98	761.5	49.3	9.6	84	sse.	.....	.....	1	.....	10	.....	sse.	0.08	2.	raining	M. Giraud, Director.
Bar-sur-Seine	29.47	748.6	30.05	763.2	41.9	5.5	94	nnw.	.....	.....	2	.....	10	.....	nw.	0.047	1.2	covered	M. Saillard, Director.
Beauvais, Normal School	29.74	755.4	30.01	762.3	48.0	8.9	71	sw.	.....	.....	1	.....	5	.....	wsw.	0.094	2.4	cloudy	M. **Frère Eugène Marié**
Besançon, Normal School	29.08	738.5	29.98	761.4	48.6	9.2	84	sw.	.....	.....	1	.....	10	.....	w.	0.020	0.5	raining	M. Gobin, Director.
Bordeaux, Observatory	29.85	758 3	30.12	765.0	48.9	9.4	75	w.	.....	.....	1	.....	8	.....	w.	0.504	12.8	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.52	749.7	30.08	764.1	44.6	7	77	sw.	.....	.....	1	.....	k	.....	sw.	0.406	10.3	.....	M. Malet, Director.
Brest, Naval Observatory	29.72	755.6	29.97	761.2	51.1	10.6	74	sw.	.....	.....	2	.....	6	.....	sw.	0.819	20.8	raining	M. **de Kermarec**, Dir.
Caen, Normal School	29.76	756.0	29.84	757 9	48.9	9.4	74	nnw.	.....	.....	1	.....	0	.....	.....	0.031	0.8	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.67	753.6	30.00	761.9	43.7	6.5	86	sw.	.....	.....	2	.....	5	.....	.....	0.035	0.9	cloudy	M. Jadot, Director.
Charleville, Normal School	29.52	749.9	30.04	763.1	43.7	6.5	67	w.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.69	728.7	30.09	764.3	39.9	4.4	90	ne.	.....	.....	1	.....	10	.....	.....	0.118	3.0	covered	M. Allnard, Director.
Cluny, Normal School	29.20	741.7	30.07	763.8	40.6	4.8	87	w.	.....	.....	1	.....	10	.....	w.	0.217	5.5	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.15	740.4	30.03	762.8	43.3	6.3	90	w.	.....	.....	1	.....	5 k	w.	w.	0 004	0.1	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.55	699.7	30.14	765.6	41.0	5	55	w.	.....	.....	3	.....	10 n	.....	s.	0.39	10.	.....	M. Jeangirard, Director.
Gréasque, du Rhone	28.87	733.3	30.01	762.2	50.0	10.0	69	se.	.....	.....	3	.....	10	.....	se.	0.39	10.	.....	M. Kina, Director.
Grenoble, Normal School	29.22	742.2	30.00	762.0	48.9	9.4	69	nnw.	.....	.....	1	.....	10 n	.....	.....	0.390	9.9	raining	M. Ablard, Director.
Guéret	28.56	725.5	30.15	765.8	41.9	5.5	97	sw.	.....	.....	3	.....	n	.....	sw.	0.31	8.	.....	**M. Delorme, Dir.**
Lamballe, Normal School	29.81	757.2	30.09	764.2	47.3	8.5	67	sw.	.....	.....	3	.....	10	.....	sw.	0.059	1.5	covered	M. Ollivault, Director
Lescar, Normal School	29.61	752.0	30.19	766.8	42.4	5.8	78	wnw.	.....	.....	1	.....	10	.....	.....	0.71	18.	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.92	759.9	30.02	762.5	51.1	10.6	60	wsw.	.....	.....	2	.....	5	w.	sw.	0.197	5.0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.97	735.7	30.06	763.4	41.7	5.4	86	wnw.	.....	.....	1	.....	10	.....	.....	0.157	4.0	raining	M. André, Director.
Mans, Normal School	29.74	755.3	29.97	761.3	45.9	7.7	83	n.	.....	.....	1	.....	5	.....	sw.	0.142	3.6	cloudy	M. Piboën, Director.
Marseille, Observatory	29.73	755.1	30.00	762 0	54.5	12.5	70	sse.	.....	.....	3	.....	10	.....	sse.	0.213	5.4	.....	M. Stephan, Director.
Montlouis	24.75	628.6	29.59	751.6	31.1	— 0.5	63	ne.	9.4	4.2	.....	.....	8	n.	.....	0.185	4.7	.....	M. **Caré for Dr. Fines.**
Montpellier, Normal School	29.88	759.0	30.01	762.3	46.8	8.2	97	sw.	.....	.....	2	.....	5	.....	se.	0.55	14.	cloudy	M. Galzin, Director.
Nancy, Normal School	29.19	741.5	30.00	761.9	45.0	7.2	77	ssw.	.....	.....	1	.....	n	.....	nw.	0	0	.....	M. Hasse, Director.
Nantes, Observatory	29.91	759.7	30.07	763.8	51.8	11.0	63	ssw.	.....	.....	1–2	0	4 ckn	.....	ssw.	0.185	4.7	.....	M. Larocque, Director.
Perpignan, Observatory	29.99	761.7	30.11	764.7	46.6	8.1	70	nw.	22.4	10.0	.....	.....	10	.....	nnw.	0.091	2.3	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.03	534.1	.....	.....	9.3	—12.6	.....	nw.	.....	.....	2	.....	10	.....	nw.	0.386	9.8	snowy	**M. Vaussenat, Director.**
Privas, Normal School	28.86	733.0	29.95	760.6	45.0	7.2	83	s.	.....	.....	1	.....	8	n.	n.	0.370	9.4	very cloudy	M. Tailheu.
Puy de Dôme Obs'y, Summit	25.04	636.0	.....	.....	26.2	— 3.2	100	wnw.	.....	.....	4	.....	10	.....	.....	0.161	4.1	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	30.04	763.0	30.07	763.8	49.6	9.8	73	calm	.....	.....	0	.....	10	.....	ssw.	0.04	1.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.75	755.6	29.97	761.2	46.8	8.2	67	sw.	.....	.....	1	.....	2	.....	sw.	0.114	2.9	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.93	709 4	30.16	766 1	34.2	1.2	93	s.	.....	.....	1	.....	10	.....	.....	0.083	2.1	snowing	M. Seger, Director.
Rouen, Normal School	29.97	761.1	30.01	762.3	49.3	9.6	73	e.	.....	.....	1	.....	5	s.	.....	0.083	2.1	cloudy	M. Mouillot.
Saint Lô	.....	.....	.....	.....	48.6	9.2	63	w.	.....	.....	1	.....	2	.....	w.	0.12	3.	slightly cl'dy	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.80	758.5	30.03	762.7	45.5	7.5	79	ssw.	.....	.....	1	.....	10	.....	sw.	0.197	5.0	.....	M. Renou, Director.
Toulouse, Observatory	29.41	747.1	30.14	765.5	40.8	4.9	96	w.	.....	.....	1	.....	10	w.	.....	0.331	8.4	covered	M. Baillaud, Director.
Tours	29.86	758.5	30.04	763.0	48.9	9.4	69	sse.	.....	.....	1	.....	2	wsw.	sw.	0.287	7.3	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.52	749.8	30.01	762.3	46.4	8.0	77	sw.	.....	.....	2	.....	.....	.....	.....	0.150	3.8	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.06	763.4	30.21	767.2	48.6	9.2	63	w.	15.7	7.0	.....	.....	10 kn	.....	.....	0.992	25.2	raining	**M. Cartier, Director.**
German.																		
Ansbach	28.61	726.6	30.12	765.1	33.3	0.7	94	sw.	.....	.....	2	.....	10	sw.	.....	0	0	.....	**Prof. Jaedt.**
Bamberg	29.21	742.0	30.06	763.5	36.5	2.5	88	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	**Prof. Dr. Hoh.**
Berlin	29.93	760.3	30.08	764.1	41.2	5.1	63	se.	.....	.....	3	.....	0	.....	.....	0	0	.....	**Meteorological Institute.**
Breslau	29.64	752.8	30.17	766.4	40.1	4.5	57	sse.	.....	.....	2	.....	1	.....	.....	0	0	.....	Royal University Obs'y
Carlsruhe	29.60	751.9	30.08	763.9	41.9	5.5	74	s.	.....	.....	1	.....	10	se.	.....	0	0	.....	Albert Senz.
Cassel	29.28	743.8	30.00	761.9	44.4	6.9	70	ssw.	.....	.....	2	.....	5	s.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.68	753.8	30.05	763.3	40.1	4.5	81	ese.	.....	.....	1	.....	10	.....	.....	0	0	.....	**Physical Society.**
Friedrichshafen	28.59	726.1	30.08	764.0	38.8	3.8	77	ne.	.....	.....	2	.....	8	ne.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	29.89	759 2	29.98	761.5	40.8	4.9	82	ese.	.....	.....	1	.....	6	ssw.	.....	0	0	.....	E. Preller.
Kiel	29.97	761.2	29.98	761.6	39.7	4.3	83	s.	.....	.....	2	.....	4	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.62	752.3	30.05	763.2	42.4	5.8	73	s.	.....	.....	3	.....	2	.....	.....	0	0	.....	B. Leppig, Asst.
Magdeburg	29.81	757.2	30.01	762.2	42.9	5.9	74	se.	.....	.....	2	.....	2	.....	.....	0	0	hazy	**Dr. Assmann.**
Memel	30.33	770.4	30.38	771.6	35.4	1.9	91	e.	.....	.....	2	.....	10	.....	.....	.....	.....	foggy	Issermann.
Munich	28.21	716.5	30.08	763.9	30.4	— 0.9	92	n.	.....	.....	1	.....	10	.....	.....	0	0	.....	**Central Station.**
Neufahrwasser	30.26	768.6	30.28	769.0	35.6	2.0	85	se.	.....	.....	2	.....	10	.....	.....	0	0	.....	**A. Lothes.**
Neustadt, Palatinate	29.49	749.0	30.01	762.3	39.2	4.0	87	calm	.....	.....	0	.....	10	wsw.	.....	0	0	.....	Dicknether.
Stuttgart	29.07	738.4	29.99	761.8	39.6	4.2	80	n.	.....	.....	1	.....	10	.....	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	30.05	763.2	30.07	763.8	37.9	3.3	80	se.	.....	.....	3	0	3 s	.....	.....	0	0	.....	Profs. Brandes & **Reimer.**
Greek.																		
Athens	29.83	757.6	30.22	767.6	47.5	8.6	.....	n.	.....	.....	1.5	0	5 k	.....	.....	0	0	.....	Schmidt & Wourlisch.
Indian.																		
Kurrachee	30.01	762.3	30.06	763.6	74.9	23.8	60	wsw.	13.0	5.8	.....	.....	4	ssw.	.....	0	0	d. clouds	
Deesa	29.51	749.6	29.99	761 7	81.2	27.3	5	nnw.	14.0	6.3	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.89	759.2	29.93	760.2	77.7	25.4	61	nnw.	21.0	9.4	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.02	711.7	29.84	757.9	89.4	31.9	16	wsw.	13.0	5.8	.....	.....	0	.....	.....	0	0	blue sky	
Belgaum	27.35	694.7	29.86	758.6	81.6	27.6	47	wsw.	8.0	3.6	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.29	744.0	30.06	763.6	65.6	18.7	32	w.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	29.09	738.0	29.99	761.6	66.2	19.0	26	w.	6.0	2.7	.....	.....	0	.....	.....	0	0	.....	
Agra	29.45	748.0	30.03	762.7	73.2	22.9	23	nw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.84	732.5	29.87	758.7	87.7	30.9	25	n.	6.0	2.7	.....	.....	6	w.	.....	0	0	d. clouds	
Jubbulpore	28.62	726.8	29.99	761.7	74.8	23.8	29	ne.	4.0	1.8	.....	.....	3	.....	ne.	0	0	d. clouds	
Lucknow	29.60	751.8	29.99	761.7	64.3	17.9	41	wnw.	8.0	3.6	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.67	753.6	29.99	761.8	67.8	19.9	47	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.76	756.0	29.96	760.8	69.7	20.9	32	w.	5.3	2.4	.....	.....	8	w.	w.	0	0	d. clouds	
Hazaribagh	27.93	709.4	29.99	761.7	67.4	19.7	37	nw.	8.5	3.8	.....	.....	2	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.84	757.9	29.92	760.0	83.0	28.3	43	e.	2.0	0.9	.....	.....	3	.....	.....	0	0	d. clouds.....	
Calcutta, Alipore	29.93	760.1	29.95	760.7	76.5	24.7	42	nne.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky.....	
Dhubri	29.80	756.8	29.92	759.9	70.9	21.6	41	sw.	0.9	0.4	.....	.....	0	.....	.....	0	0	blue sky.....	
Chittagong	29.85	758.1	29.94	760.4	73.6	23.1	82	wsw.	3.4	1.5	.....	.....	8	.....	.....	0	0	d. clouds.....	
Sibsagar	29.60	751.8	29.95	760.6	67.4	19.7	77	ne.	2.0	0.9	.....	.....	5	sw.	sw.	0	0	d. clouds.....	
Jeypore	28.56	725.3	30.03	762.6	73.2	22.9	37	nw.	7.5	3.4	.....	.....	0	.....	.....	0	0	blue sky.....	
Bellary	28.40	721.3	.....	.....	89.0	31.7	22	e.	6	2.7	.....	.....	0	.....	.....	0	0	blue sky.....	
Trichinopoly	29.67	753.6	.....	.....	88.3	31.3	39	e.	1	0 4	.....	.....	0	.....	.....	0	0	blue sky.....	
ITALIAN.																			
Udine	29.77	756.2	30.20	767.0	44.1	6.7	99	e.	0.7	0.3	.....	.....	10	.....	.....	0.102	2.6	.....	Prof. Giovanni Clodig.
Milan	29.63	752.6	30.17	766.2	45.5	7.5	90	ne.	2.5	1.1	.....	.....	10	ene.	.....	0	0	.....	Prof. Schiapparelli.
Padua	30.06	763.4	30.17	766.3	46.8	8.2	79	n.	7.4	3.3	.....	.....	10	.....	.....	0.043	1.1	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.23	742.4	30.17	766.3	42.3	5.7	95	e.	0	0	.....	.....	10	.....	.....	0.776	19.7	.....	Prof. F. F. Denza.
Genoa	29.91	759.6	30.10	764.6	45.5	7.5	91	ne.	6.9	3.1	.....	.....	10	se.	.....	0.382	9.7	.....	Prof. G. M. Garibaldi.
Mondovi	28.18	715.8	30.19	766.7	40.1	4.5	84	ese.	.....	.....	2	.....	8	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.10	764.5	30.15	765.8	47.8	8.8	89	se.	3.8	1.7	.....	.....	8	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.86	758.5	30.12	765.1	53.6	12.0	83	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.96	761.0	30.05	763.2	54.7	12.6	82	se.	8.1	3.6	.....	.....	10	sw.	.....	0	0	.....	Prof. P. Monte.
Rome	29.95	760.6	30.12	765.1	50.1	13.4	71	se.	.....	.....	.....	.....	10	.....	.....	0	0	.....	Prof. P. Tachini.
Lecce	29.95	760.7	30.21	767.3	55.2	12.9	52	ene.	4.9	2.2	.....	.....	2	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.28	743.8	30.19	766.9	55.8	13.2	77	wnw.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.86	758.5	30.00	763.5	60.4	15.8	64	se.	.....	.....	4	.....	3	s.	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.93	760.1	30.18	766.6	57.2	14.0	60	ne.	2.5	1.1	.....	.....	2	.....	.....	0.055	1.4	.....	Prof. G. Caccintore.
Syracuse	30.12	765.1	30.17	766.2	56.1	13.4	77	ne.	6.3	2.8	.....	.....	10	w.	.....	0.004	0.1	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.65	753.1	30.19	766.7	55.8	13.2	69	s.	3.1	1.4	.....	.....	9	s.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.07	560.6	.....	.....	22.5	— 5.3	100	w.	.....	.....	6	.....	10	.....	.....	0	0	misty.....	Prof. P. F. Denza.
Valdobbia	21.70	551.1	.....	.....	24.3	— 4.3	66	se.	.....	.....	2	.....	10	.....	.....	0.591	15.0	covered.....	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.32	770.2	30.35	771.0	24.2	— 4.3	77	calm	.....	.....	0	.....	10 ck	.....	nw.	0.126	3.2	cloudy.....	H. Hattori.
Awomori	30.31	769.9	30.35	770.9	27.0	— 2.8	64	nw.	14.0	6.3	.....	.....	9 n;ks	.....	n	0.150	3.8	light snow...	K. Ogawa.
Hakodate	30.35	770.8	30.36	771.1	27.0	— 2.8	96	nnw.	12.0	5.4	.....	2	0	n.	.....	0	0	clear.....	
Hamamatsu	30.33	770.4	30.36	771.2	35.3	1.8	50	nw.	.....	.....	7	0	0	.....	.....	0	0	clear.....	
Kagoshima	30.40	773.7	30.47	774.0	43.9	6.6	90	ne.	.....	.....	2	3 cs	0	.....	.....	0	0	fair.....	G. Miyanonaza.
Kioto	30.32	770.1	30.50	774.7	37.2	2.9	62	nnw.	5.8	2.6	.....	.....	10 s.	.....	.....	0.031	0.8	cloudy.....	M. Tojima.
Kochi	30.47	773.9	30.49	774.4	44.2	6.8	59	ne.	11.1	4.9	.....	9	0	w.	.....	0	0	cloudy.....	K. Kusunose.
Miasaka	30.46	773.6	30.48	774.3	47.3	8.5	61	nne.	.....	.....	2	1 cs	0	nw.	.....	0	0	clear.....	K. Masusaki.
Nagasaki, I. M. Obs'y	30.28	769.0	30.49	774.4	48.0	8.9	61	ne.	5.7	2.5	.....	7 c;cs	2 s	w.	n.	0	0	cloudy.....	S. Takehayashi.
Niigata	30.42	772.6	30.46	773.7	28.1	— 2.2	97	n.	13.3	5.9	.....	.....	10 n	.....	.....	0.320	8.1	snowing.....	M. Morita.
Nobiru	30:25	768.4	30.27	768.8	28.1	— 2.2	71	nnw.	13.7	6.1	.....	0	0	.....	.....	0	0	clear.....	H. Midzushima
Numazu	30.27	768 9	30.31	769.9	38.9	3.8	41	n.	.....	.....	4	0	0	.....	.....	0	0	clear.....	R. Kaneda.
Osaka	30.57	776.4	30.58	776.8	35.5	1.9	76	nnw.	7.0	3.1	.....	9 cs	1 cs;s	.....	n.	0	0	cloudy.....	H. Omura.
Sakai	30.00	777.2	30.01	777.5	39.1	3.9	62	e.	.....	.....	4	0	8 ks	.....	e.	0	0	cloudy.....	K. Yamawchi.
Supporo	.....	.....	.....	.....	23.0	— 5.0	94	n.	6.8	3.0	.....	.....	8	.....	n.	0	0	cloudy.....	
Tokei Obs'y, Yeddo	30.25	768.3	30.33	770.4	32.2	0.1	72	nnw.	20.1	8.9	.....	0	0	.....	.....	0	0	clear.....	The Staff.
Wakayama	30.47	774.0	30.53	775.4	38.2	3.4	62	n.	8.5	3.8	.....	6 ck	0	w.	.....	0	0	fair.....	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.58	751.3	29.77	756.1	81.7	27.6	80	nw.	6.5	2.9	.....	2 cs	7 n;k	.....	.....	1.96	49.8	showery.....	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	61	16.1	82	nw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	clear.....	H. Dias Pena.
Guanajuato	23.76	603.5	29.98	761.5	54.7	12.6	89	nne.	inap.	inap.	.....	0	0	.....	.....	0	0	clear.....	Prof. Vicente Fernandez.
Leon	24.39	619.5	30.10	766.1	51.8	11.0	79	n.	.....	.....	1	2 c	0	.....	.....	0	0	clear.....	Prof. M. Leal.
Mazatlan	29.77	756.1	30.03	762.8	65.0	18.3	63	n.	0.9	0.4	.....	0	0	.....	.....	0	0	clear.....	F. Quijano, C. E.
Mexico, Central Obs'y	23.19	588.9	30.37	771.3	40.9	8.3	78	calm	0	0	.....	0	0	.....	.....	0	0	fine.....	The Staff.
Morelia	24.43	620.5	30.47	774.0	53.8	12.1	69	e.	.....	.....	2	0	0	.....	.....	0	0	fine.....	M. Tena, M. D.
Pabellon	24.04	610.5	30.09	764.3	54.0	12.2	63	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	
Puebla, Catholic Institute	23.43	595.0	30.43	772.8	46.4	8.0	63	n.	0	0	.....	0	0	.....	.....	0	0	clear.....	Prof. P. Spina.
Zacatecas	22.01	574.2	30.29	769 4	55.0	12.8	61	w.	3.8	1.7	.....	0	0	.....	.....	0	0	fine.....	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.97	761.1	29.97	761.1	46.9	8.3	.....	ssw.	.....	.....	3	.....	.....	.....	.....	0.043	1.1	.....	
Groningen	29.91	759.6	29.96	761.0	43.5	6.4	.....	sw.	.....	.....	1	.....	.....	.....	.....	0.059	1.5	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.95	760.6	29.95	760.6	46.8	8.2	83	ssw.	.....	.....	1	.....	.....	.....	.....	0.016	0.4	.....	
Utrecht	29.94	760.4	29.98	761.6	46.9	8.3	83	ssw.	.....	.....	2	.....	8	.....	.....	0.031	0.8	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.85	758 3	.....	.....	79.5	26.4	86	n.	0	0	.....	.....	8	.....	.....	1.93	49.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.66	753.3	29.72	754.9	43.9	6.6	68	s.	31	14	.....	.....	10	.....	.....	0	0	.....	
Brono	29.67	753.6	29.71	754.6	44.6	7.0	30	ssw.	.....	.....	6	.....	9	.....	.....	0	0	.....	
Christiania	29.80	758.5	30.01	762.3	37.9	3.3	80	s.	4	2	.....	.....	10	.....	.....	0.008	0.2	foggy.....	
Gjæsvær	29.76	756.0	29.79	756.6	39.2	4.0	.....	wsw.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	
Lodtugen	29.09	754.0	29.73	755.2	39.0	3.9	37	calm	.....	.....	0	.....	2	.....	.....	blank	blank	.....	
PORTUGUESE.																			
Angra, Azores	29.78	756.3	29.93	760.3	59.4	15.2	83	wsw.	19.2	8.6	.....	.....	8	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.33	744.9	30.35	771.0	51.1	10.6	77	sw.	0.7	0.3	.....	.....	3	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.30	769.6	30.39	771.9	62.6	17.0	47	e.	4.9	2.2	.....	.....	2	n.	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.01	762.3	30.38	771.7	52.2	11.2	59	sw.	9.4	4.2	.....	.....	5	n.	.....	0.075	1.9	.....	The Staff.
Ponta Delgada, Azores	30.04	762.9	30.11	764.7	60.1	15.6	71	wsw.	28.0	12.5	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	29.71	754.6	29.91	759.7	81.7	27.6	91	wnw.	1.3	0.6	.....	.....	0	s.	.....	0	0	.....	
Serra da Estrella	25.40	645.2	30.37	771.4	29.3	— 1.5	100	sw.	.....	.....	2	.....	7	.....	.....	blank	blank	foggy.....	
RUSSIAN.																			
Akmolinski	29.43	747.6	30.74	780.9	—29.2	—34.0	76	w.	4	2	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	30.20	767.1	30.22	767.6	24.4	— 4.2	91	ssw.	2	1	.....	.....	10	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashurada	30.33	770.3	30.23	767.9	43.3	0.3	74	w.	9	4	.....	4 cs	0	.....	.....	0	0	light clouds	
Astrakhan	30.60	777.3	30.52	775.2	10.5	— 8.6	67	ne.	18	8	.....	0	6 n	.....	.....	blank	blank	.....	Capt. Wisganow.
Baku	30.32	770.2	30.28	769.0	39.9	4.4	74	nne.	13	6	.....	0	8 ks	.....	.....	0.012	0.3	.....	
Barnaul	29.92	760.0	30.50	774.6	— 8.3	—22.4	82	sw.	13	6	.....	.....	10	.....	.....	0.047	1.2	.....	Meteorological Obs'y.
Bielosersk	29.99	761.7	30.50	774.6	19.8	— 6.8	67	calm	0	0	.....	0	1 ks	.....	.....	0	0	.....	
Dorpat	30.19	766.8	30.45	773.4	34.2	1.2	100	ssw.	4	2	.....	.....	10 n	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.66	753.3	30.75	781.0	— 0.1	—17.8	65	w.	4	2	.....	10 c;ck	0	.....	.....	0	0	foggy.....	Meteorological Obs'y.
Elissawetgrad	30.10	764.6	30.60	777.1	16.5	— 8.6	72	n.	9	4	.....	1 c	0	.....	.....	0	0	.....	
Irkutsk	28.84	732.4	30.71	780.0	— 4.7	—20.4	86	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	
Kasalinsk	29.99	761.8	30.17	766.3	4.3	—15.4	72	n.	9	4	.....	.....	10 k	.....	.....	.....	.....	.....	
Kasan	30.50	774.7	30.81	782.5	0.9	—17.3	70	sse.	13	6	.....	1 cs	0	.....	.....	0	0	.....	Observatory.
Kem	30.16	766.0	30.21	767.3	29.1	— 1.6	84	sw.	13	6	.....	0	8 ks	.....	.....	0	0	heavy cl'ds.	
Kertch	30.22	767.5	30.24	768.0	31.1	— 0.5	77	ene.	7	3	.....	0	8 n	.....	.....	0	0	.....	Lagorio & Sastyrez.

STATIONS.	Barometer, corrected for instrumental error and for temperature.		Barometer, reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Kieff	29.88	759.0	30.58	776.6	19.9	— 6.7	63	e.	2	1	.....	2 c	o	.....	.....	o	o	light clouds	Observatory.
Koslov	30.13	765.3	30.72	780.3	8.4	—13.1	79	sse.	9	4	.....	.....	o	.....	.....	o	o	.....	
Liban	30.34	770.7	30.37	771 3	37.0	2.8	80	se.	7	3	.....	.....	10	.....	.....	blank	blank	.....	E. Quaas.
Lugan	30.30	769.8	30.51	775.0	11.3	—11.5	62	ene.	9	4	.....	.....	o	.....	.....	o	o	.....	Meteorological Obs'y.
Moscow	30.09	764.2	30.63	777.9	11.3	—11.5	73	w.	2	1	.....	o	o	.....	.....	o	o	.....	Meteorological Obs'y
Nikolaiev	30.39	771.9	30.47	773.8	25.5	— 3.6	76	nne.	13	6	.....	o	o	.....	.....	o	o	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.48	774.2	30.57	776.4	— 5.8	—21.0	58	calm	o	o	.....	.....	c	.....	.....	o	o	.....	Iwanow.
Pekin, China	30.30	769.5	30.45	773.3	32.4	0.2	92	calm	o	o	.....	.....	10 n	.....	.....	0.374	9.5	snowing	Physical Observatory.
Petro-Alexandrovsk	30.04	763.0	30.43	772.8	18.3	— 7.6	69	ne.	3.4	1.5	.....	.....	10 s	.....	.....	o	o	.....	
Petrozavodsk	30.15	765.7	30.36	771.1	17.2	— 8.2	73	w.	9	4	.....	8 ck	o	.....	.....	o	o	.....	Dr. Bergmann.
Pinsk	29.98	761.6	30.51	774.9	34.9	1.6	42	ese.	13	6	.....	3 cs	o	.....	.....	o	o	light clouds	
Poti	30.10	764.6	30.12	765.1	43.2	6.2	94	calm	o	o	.....	.....	10 n	.....	.....	o	o	.....	
St. Petersburg	30.43	772.8	30.44	773.2	24.8	— 4.0	91	sse.	7	3	.....	.....	10	.....	.....	inap.	inap.	.....	Central Physical Obs'y.
Samarkand	27.69	793.4	30.30	769.5	30.0	— 1.1	67	ne.	7.8	3.5	.....	8 cs	o	.....	.....	.....	.....	.....	
Semipalatinsk	30.02	762 4	30.79	782.0	—21.3	—29.6	80	calm	o	o	.....	.....	7	.....	.....	o	o	.....	Major Lasarew.
Sevastopol	29.95	760.7	30.19	766.7	34.9	1.6	91	nw.	11	5	.....	.....	10 n	.....	.....	o	o	heavy clouds	
Staroi Bykhov	30.12	765.1	30.62	777.7	23.9	— 4.5	42	ese.	2	1	.....	10 cs	o	.....	.....	o	o	light clouds	
Tashkend	28.65	727.8	30.43	772.9	31.3	— 0.4	50	n.	7	3	.....	1 ck	o	.....	.....	o	o	.....	Terch, A. M.
Tiflis	28.79	731.3	30.28	769.2	34.5	1.4	74	se.	2	1	.....	.....	10	.....	.....	0.008	0.2	light snow	Physical Observatory.
Vernoe	27.74	704.5	30.49	774.5	10.6	—11.9	85	e.	9	4	.....	.....	10 n	.....	.....	.....	.....	.....	
Viatka	29.93	760.2	30.63	778.0	7.3	—13.7	.....	s.	4	2	.....	.....	10	.....	.....	o	o	.....	
Vladivostock	30.56	776.3	30.63	778.0	5.7	—14.6	33	n.	4	2	.....	.....	o	.....	.....	o	o	.....	
Warsaw	29.85	758.3	30.30	769.7	32.4	0.2	55	n.	13	6	.....	o	o	.....	.....	o	o	.....	Astronomical Obs'y.
Wilna	30.03	762.8	30.48	774.1	31.3	— 0.4	65	se.	4	2	.....	.....	8	.....	.....	o	o	heavy clouds	Berg, Assistant.
Yeniseisk	30.27	768.8	30.57	776.4	—17.5	—27.5	80	calm	o	o	.....	.....	o	.....	.....	o	o	.....	M. O. Marks.
Scottish.																			
Monach Lt	.....	.....	29.20	741.7	40	4.4	91	sw.	.....	.....	7	.....	10	.....	.....	0.3	8.	.....	J. Youngclauss.
North Unst	.....	.....	29.56	750.8	.....	.....	.....	s.	.....	.....	8	3	4	sw.	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.02	762.5	30.13	765.2	53.1	11.7	55	w.	5.1	2.3	.....	o	1	.....	.....	0.362	9.2	clear	Antonio Rzve, Director.
Bilbao, Met. Obs'y	30.19	766.8	30.25	768.3	56.5	13.6	49	nw.	2.0	0.9	.....	3	2	ne.	.....	0.311	7.9	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.24	692.0	30.35	771.0	35.2	1.8	80	sw.	12.3	5.5	.....	o	6	.....	.....	0.291	7.4	cloudy	Domingo Martin.
Madrid, Royal Obs'y	28.01	711.5	30.33	770.3	42.8	6.0	56	nw.	14.1	6.3	.....	o	4	.....	.....	0.173	4.4	cloudy	The Staff.
Murcia, Met. Obs'y	30.06	763.6	30.21	767.2	57.0	13.9	56	nnw.	7.6	3.4	.....	1	4	sse.	.....	o	o	clouds	Olayo Diaz, Director.
Oviedo	29.28	743.6	30.14	765.6	45.5	7.5	57	se.	4.5	2.0	.....	4 ck	8 n	sw.	sw.	o	o	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.21	741.9	30.12	765.1	47.3	8.5	90	ssw.	11.9	5.3	.....	.....	10	.....	.....	0.421	10.7	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.92	759.9	29.98	761.4	78.2	25.7	81	ese.	7.3	3.3	.....	.....	8 k	.....	ene.	o	o	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.29	769.3	30.39	771.9	52.3	11.3	55	n.	8.0	3.6	.....	o	1	.....	nw.	o	o	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.5	30.11	764.8	75.2	24.0	92	se.	3.8	1.7	.....	6 k	4 kn	se.	se.	0.165	4.2	cloudy:	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	30.14	765.6	30.18	766.6	27.7	— 2.4	100	sw.	.....	.....	2	.....	10	.....	.....	o	o	.....	
Umea	30.13	765.3	30.18	766.6	31.3	— 0.4	100	sw.	.....	.....	2	.....	10	.....	.....	o	o	.....	
Hernosand	30.12	765.1	30.17	766.4	32.7	0.4	89	s.	.....	.....	2	.....	7	.....	.....	o	o	.....	
Stockholm	30.11	764 7	30.28	769 2	32.7	0.4	96	s.	.....	.....	2	.....	10	.....	.....	o	o	foggy	
Wisby	30.17	766.4	30.23	767.9	34.9	1.6	93	sse.	.....	.....	2	.....	7	.....	.....	o	o	.....	
Sub-series.																			
Upsala	30.18	766.5	30.26	768.7	32.9	0.5	92	s.	11.4	5.1	.....	.....	10	.....	.....	o	o	.....	S. G. Fineman.
Swiss.																			
Geneva	28.59	726.2	30.06	763.6	38.3	3.5	90	ssw.	.....	.....	3	.....	10	.....	.....	o	o	covered	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.21	767.2	33.6	0.9	92	sw.	7	3.0	.....	.....	10	.....	n.	0.276	7.0	snowing	The Observatory.
Valona	.....	.....	30.21	767.2	50.7	10.4	.....	nw.	.....	1	.....	.....	o	.....	.....	o	o	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.02	762 6	60.3	15.7	61	sw.	.....	.....	2	.....	3 n	.....	sw.	0.405	10.3	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred L. Kingsbury.
United States.																			
Albany, New York	30.48	774.2	30.58	776.7	12	—11.1	70	sw.	3	1.3	.....	.....	10s;fg	.....	w.	o	o	cloudy	J. O. Barnes.
Alpena, Michigan	29.70	754.4	30.41	772.4	12	—11.1	80	w.	3	1.3	.....	4 cs	fg.	w.	.....	o	o	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.92	633.0	30.02	762.5	44	6.7	100	s.	4	1.8	.....	.....	10 n	.....	.....	0.64	16.3	light rain	W. O. Barnes.
Assinnaboine, Ft., Montana	27.02	686.3	30.06	763.5	— 5	—20.6	65	w.	6	2.7	.....	o	8 s	.....	sw.	o	o	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.21	741.9	30.43	772.9	46.5	8.1	96	ne.	4	1.8	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	H. C. Smyth.
Atlantic City, New Jersey	30.50	774.7	30.51	774.9	28	— 2.2	64	n.	3	1.3	.....	.....	10 s	.....	.....	o	o	cloudy	Jas. M. Watson.
Augusta, Georgia	30.25	768.3	30.45	773.4	53	11.7	86	ne.	5	2.2	.....	.....	10 s	.....	ne.	o	o	cloudy	John Healy.
Baltimore, Maryland	30.51	774.9	30.56	776.2	33	0.6	68	n.	4	1.8	.....	3 cs	6 s	w.	w.	o	o	cloudy	Geo W Felger.
Barnegat, New Jersey	30.52	775.2	30.54	775.7	29.0	— 1.7	67	n.	8	3.6	.....	9cs;ck	o	w.	.....	o	o	cloudy	G. A. Hill.
Behring Id., Behring Sea	30.28	769.1	30.36	769.6	26.8	— 2.9	.....	w.	18	8.0	.....	o	3 k	.....	w.	0.01	0.3	clear	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.46	722.9	30.19	766.8	0	—17.8	85	calm	o	o	.....	o	o	.....	.....	o	o	clear	A. Pritchard.
Benton, Fort, Montana	27.05	687.1	30.05	763.3	— 5	—20.5	65	calm	o	o	.....	o	o	.....	.....	o	o	clear	S. Wheaton.
Billings, Montana	26.51	673.3	.....	.....	7	—13.9	66	s.	2	0.9	.....	o	o	.....	.....	o	o	clear	T. Gibson.
Bismarck, Dakota	28.20	716.3	30.18	766.6	— 5	—20.6	65	e.	3	1.3	.....	o	o	.....	.....	o	o	clear	Cyrus Cramer.
Block Island, Rhode Island	30.51	774.9	30.54	775.7	25	— 3.9	64	n.	8	3.6	.....	9ck;cs	o	nw.	.....	o	o	cloudy	J. T. Elker.
Boise City, Idaho	26.68	677.7	29.64	752.8	33	0.6	79	se.	20	8.9	.....	.....	10 s	.....	.....	o	o	cloudy	B. E. Light.
Boston, Massachusetts	30.36	771.1	30.52	775.2	22.5	— 5.3	45	n.	4	1.8	.....	o	3 s	.....	.....	o	o	clear	O. B. Cole.
Brownsville, Texas	30.05	763.3	30.10	764.5	70.0	21.1	94	s.	11	4.9	.....	.....	9 s	.....	s.	o	o	cloudy	M. McCarty.
Buffalo, New York	29.70	754.4	30.50	774.7	9.2	—12.7	81	e.	2	0.9	.....	o	sk.	.....	.....	o	o	dense smoke	W. Finn.
Buford, Fort, Dakota	27.88	708.1	30.06	763.5	— 5	—20.6	65	e.	1	0.4	.....	o	o	.....	.....	o	o	clear	F. A. Mellen.
Burlington, Vermont	30.21	767.3	30.52	775.2	14.3	— 9.8	82	e.	3	1.3	.....	o	o	.....	.....	o	o	clear	D. N. Farnell.
Cairo, Illinois	29.98	761.5	30.40	772.1	34.8	1.6	73	ne.	2	0.9	.....	.....	10 s	.....	.....	o	o	cloudy	W. H. Ray.
Cape Henry, Virginia	30.49	774.4	30.51	774.9	39	3.9	82	ne.	15	6.7	.....	o	8 s;ks	.....	w.	o	o	cloudy	A. K. Alderson.
Cape May, New Jersey	30.50	774.7	30.53	775.4	33.0	0.6	68	ne.	7	3.1	.....	7 cs	o	n.	.....	o	o	fair	W. E. Smith.
Cape Mendocino, California	28.83	732.3	29.53	750.0	43	6.1	100	se.	36	16.1	.....	o	fg.	.....	se.	0.65	16.5	clear	J. J. McLean.
Cedar Keys, Florida	30.27	768.8	30.29	769.4	71	21.7	84	se.	5	2.2	.....	2 c	o	.....	.....	o	o	clear	F. W. Mixer.
Champaign, Illinois	29.54	750.3	30.41	772.4	27.2	— 2.7	77	se.	5	2.2	.....	.....	10 s	.....	se.	o	o	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.34	770.6	30.40	772.1	48	8.9	93	ne.	9	4.0	.....	.....	10 s	.....	ne.	0.49	12.4	threatening	J. H. Smith.
Charlotte, N. Carolina	29.58	751.3	30.47	773.9	42.0	5.6	82	ne.	6	2.7	.....	.....	10s;fg	.....	ne.	o	o	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.54	750.3	30.40	772.1	48.5	9.2	82	e.	5	2.2	.....	.....	10 s	.....	se.	o	o	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.92	607 6	30.16	766.1	20.3	— 6.5	51	w.	4	1.8	.....	.....	10 s	.....	.....	o	o	cloudy	E. McGovern.
Chicago, Illinois	29.65	753.1	30.40	772.1	27.0	— 2.8	59	sw.	2	0.9	.....	3 ck	2 s	w.	sw.	o	o	fair	J. Mitchell.
Chincoteague, Virginia	30.49	774.4	30.51	774 9	33	0.6	60	ne.	6	2.7	.....	8 ck	o	.....	.....	o	o	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.75	755.6	30.44	773.2	34	1.1	88	n.	2	0.9	.....	.....	10 s	.....	w.	o	o	cloudy	R. B. Watkins.
Cleveland, Ohio	29.66	753.4	30.45	773.4	18.3	— 7.6	74	s.	6	2.7	.....	6 cs	o	w.	.....	o	o	fair	J. B. Newlin.
Coleman City, Texas	28.26	717.8	30.14	765.5	52	11.1	100	ne.	12	5.4	.....	.....	10 n	.....	ne.	0.05	1.3	light rain	L. Dorman.
Columbus, Ohio	29.51	750.3	30.44	773.2	31	— 0.6	78	e.	3	1.3	.....	.....	10 s	.....	ne.	o	o	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.09	713.5	30.11	764.8	60.0	15.6	100	se.	6	2.7	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	J. McGlone.
Davenport, Iowa	29.64	752.8	30.34	770.6	23	— 5.0	61	e.	7	3.1	.....	6 ck	hz.	sw.	.....	o	o	fair	R. R. Martin.
Davis, Fort, Texas	25.17	639.3	30.13	765.3	52	11.1	86	calm	o	o	.....	o	6 s	.....	sw.	o	o	fair	J. Williams.
Dayton, Washington T'y	27.64	702.0	29.45	748.9	32	0.0	81	sw.	14	6.3	.....	.....	10 s	.....	.....	o	o	cloudy	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.22	640.6	30.14	765.5	37	2.8	82	s.	8	3.6		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.51	774.9	30.53	775.4	32	0.0	78	ne.	8	3.6		5 cs	0	w.		0	0	fair	T. S. Townsend.
Denison, Texas	29.36	745.7	30.20	767.1	49.0	9.4	100	se.	6	2.7			10 s			0.17	4.3	cloudy	J. W. Byram.
Denver, Colorado	24.65	626.1	30.17	766.3	30.0	— 1.1	70	s.	2	0.9			10 s			0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.36	745.7	30.33	770.4	23	— 5.0	61	s.	1	0.4		0	sk.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.71	754.6	30.46	773.7	17.0	— 8.3	91	calm	0	0			fg.			0	0	dense fog	E. R. Brace.
Dodge City, Kansas	27.46	697.5	30.20	767.1	34	1.1	100	e.	9	4.0			10 n			0.03	0.8	light rain	Y. P. Temple.
Dubuque, Iowa	29.59	751.6	30.35	770.9	5.5	—14.7	76	calm	0	0		0	8 s; fg		e.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.48	748.8	30.29	769.4	7	—13.9	76	calm	0	0		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.26	743.2	30.10	764.5	69.1	20.6	90	se.	8	3.6			10 s			inap.	inap.	cloudy	F. Belford.
Eagle Rock, Idaho	25.19	639.8	30.09	764.3	7	—13.9	80	n.	10	4.5		6 cs	0			0	0	fair	J. M. Clifford.
Eastport, Maine	30.39	771.9	30.46	773.7	17.0	— 8.3	74	w.	5	2.2		3 c	5 s	w.	w.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.24	691.9	30.14	765.5	38	3.3	82	se.	4	1.8			fg.			0.32	8.1	dense fog	W. J. Cundall.
El Paso, Texas	26.24	666.5	30.12	765.0	52.8	11.6	74	w.	4	1.8			10 s		w.	0.04	1.0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.72	754.9	30.49	774.4	17	— 8.3	83	calm	0	0		0	3s; fg			0	0	clear	Peter Wood.
Escanaba, Michigan	29.63	752.6	30.35	770.9	— 4.2	—20.1	79	calm	0	0		hz.	2 s			0	0	clear	George Heathcote.
Fredericksburg, Texas	28.35	720.1	30.15	765.8	65	18.3	90	s.	12	5.4			10 ks		s.	0	0	cloudy	Frank Halwegler.
Galveston, Texas	30.14	765.5	30.19	766.8	65	18.3	93	se.	11	4.9			fg.			0.03	0.8	dense fog	E. O'C. MacInerney
Grand Haven, Michigan	29.70	754.4	30.41	772.4	12.0	—11.1	80	calm	0	0		hz.	fg.			0	0	light haze	J. E. Mueller.
Grant, Fort, Arizona	25.21	640.3	30.07	763.8	45	7.2	86	ne.	9	4.0			10 s			0.23	5.8	cloudy	Robert O. Lord.
Hatteras, North Carolina	30.44	773.2	30.46	773.7	41	5.0	92	ne.	25	11.2			10 n		e.	0.15	3.8	light rain	R. M. Crawford.
Helena, Montana	25.44	646.2	29.84	757.9	28	— 2.2	70	sw.	3	1.3		2 cs	0	calm		0	0	clear	N. C. Smith.
Henrietta, Texas	29.10	739.1	30.15	765.8	51	10.6	93	se.	7	3.1			10 ks		se.	0	0	threatening	J. P. Sherry.
Huron, Dakota	28.72	720.5	30.24	768.1	4	—15.6	69	nw.	2	0.9		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.58	751.3	30.43	772.9	32	0.0	78	se.	3	1.3			10 s			0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.10	764.5	30.12	765.0	67.1	19.5	97	se.	15	6.7		0	4 k		s.	inap.	inap.	fair	I. A. Reed.
Jacksboro, Texas	28.89	733.8	30.13	765.3	49	9.4	77	se.	5	2.2			10 s			0.03	0.8	cloudy	D. J. Carr.
Jacksonville, Florida	30.29	769.4	30.34	770.6	62	16.7	100	ne.	3	1.3			fg.			0.25	6.3	dense fog	J. W. Smith.
Keogh, Fort, Montana	27.38	695.4	30.06	763.5	— 4	—20 0	68	ne.	7	3.1		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.65	753.1	30.35	770.9	33.0	0.6	78	se.	3	1.3			10 s			0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.18	766.6	30.20	767.1	74.0	23.3	84	ne.	13	5.8		0	2k; ks		e.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.47	773.9	30.49	774.4	41	5.0	68	ne.	17	7.6			10 s		ne.	0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.34	745.2	30.42	772.7	41.3	5.2	94	e.	3	1.3			10 s			0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.52	749.8	30.36	771.1	10	—12.2	58	s.	7	3.1		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.36	745.7	30.30	769.6	36	2.2	79	calm	0	0			10 s			0	0	cloudy	A. W. Browne.
Lewiston, Idaho	28.60	726.4	29.47	748.5	33.0	0.6	76	w.	1	0.4		0	6 s			0	0	fair	W. Bell.
Little Rock, Arkansas	29.97	761.2	30.30	769.6	45	7.2	93	calm	0	0			10 s			0.28	7.1	cloudy	W. U. Simons.
Los Angeles, California	29.54	750.3	29.94	760.5	50	10.0	93	se.	4	1.8			10 n			1.79	45.5	light rain	T. S. Collins.
Louisville, Kentucky	29.78	756.4	30.37	771.4	37	2.8	61	ne.	4	1.8			10 s			0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.79	756.7	30.51	774.9	31	— 0.6	78	e.	1	0.4		0	4 s		e.	0	0	fair	Louis Duane.
Mackinaw City, Michigan	29.66	753.4	30.36	771.1	21.0	— 6.1	70	sw.	6	2.7		0	0			0	0	clear	F. R. Day.
Macon, Fort, North Carolina	30.44	773.2	30.45	773.4	41.0	5.0	100	n.	17	7.6			10 n		ne.	0.55	14.0	light rain	William Daly.
Madison, Wisconsin	29.30	744.2	30.39	771.9	6	—14.4	76	s.	1	0.4		0	fg.			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.20	640.1	29.74	755.4	24	— 4.4	40	sw.	4	1.8			10 s			0	0	cloudy	F. Burke.
McKavett, Fort, Texas	27.77	705.3	30.15	765.8	63	17.2	90	s.	11	4.9			10 s			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.49	749.0	30.27	768.8	19	— 7.2	53	se.	3	1.3		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.96	761.0	30.31	769.9	44	0.7	93	e.	3	1.3			10 s			0	0	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.60	751.8	30.40	772.1	18	— 7.8	84	sw.	6	2.7		0	fg.			0	0	clear	W. Line.
Missoula, Fort, Montana	26.27	667.2	29.70	754.4	32	0.0	71	w.	12	5.4			10 s			0	0	cloudy	J. H. Young.
Mobile, Alabama	30.25	768.3	30.29	769.4	61.5	16.4	96	n.	3	1.3			fg			0	0	dense fog	C. A. Read.
Montgomery, Alabama	30.08	764.0	30.32	770.1	58.5	14.7	92	ne	5	2.2			10s; fg			0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.16	740.7	30.26	768.6	— 8	—22.2	100	s.	4	1.8			10 s			0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.40	746.7	30.47	773.9	30.5	— 0.8	81	ne.	1	0.4		4 cs	hz			0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.77	603.7	30.39	771.9	3.0	—16.1	79	nw.	46	20.6		3 c	0	w.		0.09	2.3	clear	S. W. Beall.
Nashville, Tennessee	29.75	755.6	30.36	771.1	38.5	3.6	86	e.	2	0.9			10 ks			0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.41	772.4	30.53	775.4	19	— 7.2	76	n.	7	3.1		7 cs	0	w.		0	0	fair	J. H. Sherman.
New London, Connecticut	30.52	775.2	30.57	776.5	21	— 6.1	70	n.	3	1.3		7 ck	0	n.		0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.21	767.3	30.27	768.8	65.0	18.3	93	se.	1	0.4			fg.			0	0	dense fog	L. Dunne.
Newport, Rhode Island	30.48	774.2	30.53	775.4	23.2	— 4.9	93	n.	7	3.1		7 c	2 s	w.	n.	0	0	cloudy	W. McGillivray.
New York, New York	30.38	771.6	30.57	776.5	24.5	— 4.2	78	calm	0	0			10s; fg			0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	30.49	774.4	30.52	775.2	39	3.9	72	ne.	4	1.8		7 k	hz.	sw.		0	0	fair	Wm. Davis.
North Platte, Nebraska	27.15	689.6	30.25	768.3	8.6	—13.0	76	w.	5	2.2		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y.	29.38	746.2	29.42	747.3	34.0	1.1	72	s.	6	2.7			10 n			0.68	17.3	light rain	J. Dascomb.
Omaha, Nebraska	29.04	737.6	30.31	709 9	28.0	— 2.2	77	s.	4	1.8			10 s			0	0	cloudy	A. Pollak.
Ooglaamie, Alaska	29.87	758.7	29.89	759.2	— 6.5	—21.4		wnw.	3	1.3		hz.	3 s			0.16	4.1	clear	P. H. Ray.
Oswego, New York	30.16	766.1	30.51	774.9	15.0	— 9.4	83	s.	5	2.2		2 cs	0			0	0	clear	J. G. Linsley.
Palestine, Texas	29.65	753.1	30.23	767.8	64.5	18.1	93	se.	10	4.5			10 ks		se.	0.08	2.0	cloudy	L. M. Pindell.
Pensacola, Florida	30.27	768.8	30.30	769 6	62.1	16.7	100	calm	0	0			fg.			0	0	dense fog	M. McGauran.
Philadelphia, Pa	30.45	773.4	30.56	776.2	30	— 1.1	68	nw.	4	1.8			10 s		sw.	0	0	cloudy	E. M. Mattison.
Pike's Peak, Colorado	17.02	447.5	30.34	770.6	10	—12.2	100	sw.			6		10 n		sw.	inap.	inap.	light snow	H. Hall.
Ploche, Nevada	23.78	604.0	29.94	760.5	31.3	— 0.4	95	se.	6	2.7			10 n			0.01	0.3	light snow	C. N. Kitchel.
Pittsburg, Pennsylvania	29.60	751.8	30.46	773.7	29.0	— 1.7	77	calm	0	0			8 s			0	0	cloudy	W. A. Reid.
Poplar River, Montana	27.72	704.1	30.07	763.8				sw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.26	768.6	30.27	768.8	63.0	17.2	93	e.	7	3.1			10 s		e.	0	0	cloudy	H. B. Boyer.
Port Huron, Michigan	29.78	756.4	30.51	774.9	1.8	—16.8	100	calm	0	0			fg.			0	0	dense fog	W. O. Bailey.
Portland, Maine	30.45	773.4	30.50	774.7	16.0	— 8.9	67	nw.	2	0.9		2 k	hz.			0	0	dense haze	W. W. Eichelberger
Portland, Oregon	29.37	746.0	29.44	747.8	36.0	2.2	89	s.	4	1.8			10 n		s.	0.72	18.3	light rain	M. L. Hearne.
Portsmouth, N. C.					43	6.1	100	ne.	32	14.3			10 n		ne.	0.14	3.6	light rain	F. S. Coburn.
Prescott, Arizona	24.56	623.8	29.92	760.0	42.0	5.6	85	s.	13	5.8			10 n			0.11	2.8	light rain	Jas Cassidy.
Provincetown, Mass	30.49	774.4	30.52	775.2	24.5	— 4.2	64	nw.	4	1.8		6 cs	1 s	w.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.25	768.3	30.26	768.6	66.5	19.2	97	ne.	7	3.1			fg.			0	0	dense fog	W. J. Evans.
Red Bluff, California	29.26	743.2	29.63	752 6	44	6.7	93	s.	12	5.4			10 ks		s.	0.21	5.3	cloudy	J. R. Williams.
Rochester, New York	29.80	756.9	30.51	774.9	9	—12.8	76	sw.	9	4.0		0	hz.			0	0	clear	E. W. McGann
Roseburg, Oregon	28.91	734.3	29.48	748.8	36	2.2	83	e.	1	0.4			10 n		sw.	0.47	11.9	light rain	J. J. Nanry.
Sacramento, California	29.63	752.6	29.71	754.6	45.9	7.7	83	se.	11	4.9			9 s		se.	0	0	cloudy	J. A. Barwick
St. Louis, Missouri	29.70	754.4	30.34	770.6	33.5	0.8	86	se.	10	4.5			10 s		se.	0	0	cloudy	J. H. Weber.
St. Michael, Fort; Alaska	30.08	764.0	30.11	764.8	20	— 6.7	100	s.	12	5.4			10 s			0.01	0.3	cloudy	A. P. Leavitt
St. Paul, Minnesota	29.35	745.5	30.29	769.4	5.0	—15.0	87	se.	6	2.7		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.24	742.7	30.20	767.1	—14	—25.6	73	calm	0	0		0	0			0	0	clear	O. B Dilley.
Salt Lake City, Utah	25.38	644.6	29.94	760.5	38	3.3	48	e.	4	1.8		2 k	0			0	0	clear	J. Craig.
San Antonio, Texas	29.40	746.7	30.12	765.0	67.5	19.7	95	se	9	4.0			10 s		se.	0.02	0.5	cloudy	T. J. Kenan.
San Diego, California	29.90	759.4	29.96	761.0	53.6	12.0	91	sw.	4	1.8		0	1 s			0.24	6.1	clear	A. C. Dobbins.
Sandusky, Ohio	29.74	755.4	30.46	773.7	24	— 4.4	73	se.	6	2.7		0	5 s			0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.53	775.4	30.56	776.2	27.0	— 2.8	77	nw.	8	3.6		9 k	0	nw.		0	0	cloudy	B. A. Blundon.
San Francisco, California	29.03	752.6	29.70	754.4	50.5	10.3	90	se.	8	3.6			10 n		sw.	0.08	2.0	light rain	N. Gorom.
Santa Fé, New Mexico	23.11	587.0	30.19	766.8	40	4.4	89	s.	13	5.8			10 n		sw.	0.24	6.1	light rain	H. U. Jones.
Savannah, Georgia	30.32	770.1	30.41	772.4	53.5	11.9	85	ne.	6	2.7			10 n		ne.	1.00	25.4	light rain	H. W. Ford.
Shaw, Fort, Montana	26.08	662.4	29.93	760.2	— 2	—18.9	68	sw.	8	3.6		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.98	761.5	30.23	767.8	48	8.9	100	e.	6	2.7			10 s			1.38	35.1	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.86	733.0	30.17	766.3	47.8	8.8	90	e.	4	1.8			10 n			0.42	10.7	heavy rain	W. M. Mattingly.
Silver City, New Mexico	24.22	615.2	30.07	763.8	42.0	5.6	92	calm	0	0			10 s			0.07	1.8	cloudy	N. D. Lane.
Sitka, Alaska	29.70	754.4	29.78	750.4	11.5	—11.4	70	ne.	7	3.1		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.75	755.6	30.25	768.3	42.0	5.6	92	e.	6	2.7			10 s			0.50	12.7	cloudy	J. B. Campbell.
Smithville, North Carolina	30.43	772.9	30.47	773.9	40	4.4	89	n.	8	3.6			10 s		n.	0.07	1.8	cloudy	O. Parker.

STATIONS.	Barometer: Corrected for instrumental error and for temperature. Inch.	Barometer: Corrected for instrumental error and for temperature. Mill.	Barometer: Reduced to sea-level. Inch.	Barometer: Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	27.37	695.2	29.50	749.3	43	6.1	93	sw.	8	3.6	.....	.....	10 s	.....	.....	0.02	0.5	cloudy.....	H. Clifford.
Springfield, Illinois.....	29.64	752.8	30.38	771.6	34	1.1	82	se.	2	0.9	.....	4 c	4 s	w.	w.	0	0	cloudy.....	T. B. Jennings
Springfield, Missouri.....	28.77	730.7	30.28	769.1	37.0	2.8	82	se.	9	4.0	.....	.....	10 n	.....	.....	0.09	2.3	light rain ...	J. H. Bryce.
Starkville, Miss.....	29.82	757.4	30.32	770.1	51	10.6	93	calm	0	0	.....	.....	10 s	.....	.....	0.41	10.4	cloudy.....	C. Dill.
Stevenson, Fort, Dakota.....	28.12	714.2	30.14	765.5	— 6	—21.1	65	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	A. Schneider.
Stockton, Fort, Texas	26.97	685.0	30.10	764.5	55	12.8	100	s.	14	6.3	.....	2 ck	0	sw.	.....	0	0	clear.....	A. J. Warren.
Thatcher's Island, Mass.....	30.47	773.9	30.53	775.4	26.0	— 3.3	76	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Thomas Camp, Arizona.....	27.19	690.6	30.02	762.5	49	9.4	96	calm	.....	.....	0	0	7 ks	.....	w.	0.21	5.3	fair.....	J. T. Fitzgerald.
Toledo, Ohio.....	29.71	754.6	30.45	773.4	13	—10.6	80	n	1	0.4	.....	10 c	fg.	.....	.....	0	0	cloudy	A. Buell.
Tucson, Arizona.....	27.52	699.0	30.00	762.0	52	11.1	86	e.	6	2.7	.....	0	3 ks	.....	.....	0.33	8.4	clear.....	J. L. Whiteside
Umatilla, Oregon.....	29.15	740.4	29.53	750.0	24	— 4.4	88	se.	5	2.2	.....	.....	10 n	.....	.....	0.07	1.8	light snow..	J. Daly.
Verde, Fort, Arizona.....	.....	.....	.....	.....	45 3	7.4	86	s.	.....	.....	1	.....	10 n	.....	s.	0.54	13.7	light rain....	O. L. Pease.
Vicksburg, Mississippi	30.02	762.5	30.30	769.6	51.5	10.8	95	e.	1	0.4	.....	.....	fg.	.....	.....	0.95	24.1	dense fog ...	James Kenealy.
Visalia, California.....	29.45	748.0	29.83	757.7	48.2	9.0	86	e.	4	1.8	.....	.....	10 n	.....	e.	0.14	3.6	light rain....	O. D. Stewart
Washakie, Fort, Wyoming.	24.30	617.2	30.06	763.5	— 4.9	—20.5	82	e.	3	1.3	.....	0	2 k	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.....	30.43	772.9	30.55	776.0	29.0	— 1.7	77	calm	0	0	.....	5 c	4 s	.....	sw.	0	0	cloudy.....	B. M. Purssell.
West Las Animas, Colorado	25.97	659.6	30.10	764.5	35	1.7	77	n.	3	1.3	.....	2 cs	2 s	.....	.....	inap.	inap.	light rain....	F. H. Brandenburg
Williamsport, Pa.....	29.91	759.7	30.54	775.7	17	— 8.3	83	e.	2	0.9	.....	.....	10 n	.....	.....	0	0	fair.....	B. F. Hough.
Wilmington, N. Carolina....	30.40	772.1	30.46	773.7	41	5.0	92	ne.	7	3.1	.....	.....	10 n	.....	e.	0.02	0.5	light rain....	Samuel A. Haney.
Winnemucca, Nevada.....	25.19	639.8	29.71	754.6	25.5	— 3.6	70	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	J. Grover.
Yankton, Dakota.....	28.80	731.5	30.22	767.6	12	—11.1	61	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona.....	29.73	755.1	29.88	758.9	54.3	12.4	95	nw.	4	1.8	.....	0	6 n	.....	sw.	0.20	5.1	light rain....	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia.....	22.04	559.8	.....	.....	54.0	12.2	61	n.	2	0.9	.....	0	3ks;s	.....	ne.	0	0	fair.....	Joaquin Gomez.
Kingston, Jamaica, W. I....	30.09	764.3	30.10	764.5	71	21.7	87	calm	0	0	.....	.....	1 s	.....	.....	0	0	clear	Robert Johnston.
Paramaribo, S. A.....	30.04	763.0	30.04	763.0	77	25.0	91	e.	.....	.....	2	.....	8 ks	.....	e.	0.500	12.7	cloudy.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Colombia	29.36	745.7	29.91	759.7	83	28.3	80	nw.	.....	.....	1	7 c	3 ks	n.	calm	0.04	1.0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A....	.....	.....	.....	.....	76	24.4	92	ne.	.....	.....	4	0	2 ks	.....	.....	0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.10	764.5	30.16	766.1	25	— 3.9	73	n.	.....	.....	3	0	5 s	.....	.....	0	0	clear	W. J. Fisher.
St. Thomas, W. I.....	30.05	763.3	30.18	766.6	76	24.4	76	e.	.....	.....	.....	1 k	3 k	e.	e.	0	0	fair	Aug. Wallon.
Havana, Cuba.....	30.10	764.5	30.16	766.1	69.5	20.8	92	e.	2	0 9	.....	0	1 k	.....	e.	0	0	clear.....	Benito Vines, S. J.
York Factory, B. A.....	30.16	766.1	30.23	767.8	—26.0	—32.2	.....	nw.	10	4.5	.....	3 k	2 s	nw.	nw.	0.02	0.5	fair.....	Fortesque & Wood.

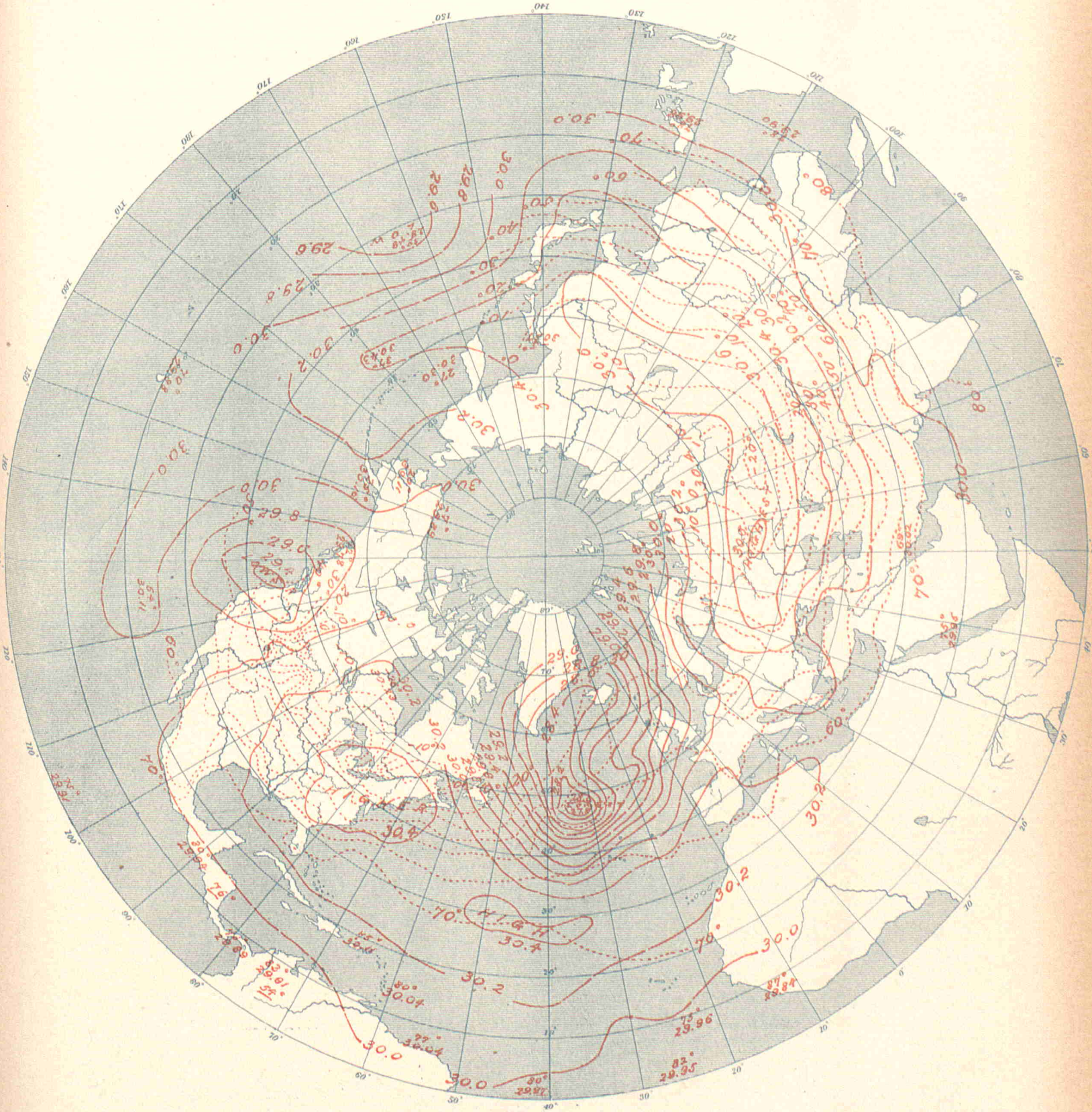
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level: Inch.	Barometer reduced to sea-level: Mill.	Temperature of the air: Fah.	Temperature of the air: Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Sea-swell. Character.	Sea-swell. Direction from	Weather.
District No. 1—North Atlantic																		
H. M. Dock-Yard, Bermuda, W. I.....	30.28	769.1	66	18.9	94	ne.	.....	.....	1	.....	9	ne.	.....	.....	.....	.....	.....	drizzling.
H. M. S. Fawn, N. 16° 49′, W. 33° 31′...	30.11	764.8	71	21.7	100	ene.	.....	.....	5–6	.....	9	ene.	.....	.....	.....	5	ene.	showery.
H. M. S. Iron Duke, N. 36° 12′ W. 4° 50′	30.31	769.9	60	15.6	76	wsw.	.....	.....	2	.....	6	sw.	.....	.....	.....	2	wsw.	d. clouds.
H. M. S. Monarch Port Said, Egypt	30.13	765.3	60	15.6	88	nw.	.....	.....	1–2	.....	9	.....	.....	.....	.....	.....	.....	showery
H. M. S. Minotaur, Arosa Bay, Spain.....	30.10	766.1	54	12.2	76	ssw.	.....	.....	6	.....	8	ssw.	.....	.....	.....	.....	.....	showery.
U. S. Navy Yard, Portsmouth, N. H*.....	30.49	774.4	9	—12.8	7	nw.	3	1.3	.....	.....	0	.....	.....	0	0	.....	.....	hazy.
U. S. S. Enterprise, N. 7° 28′, W. 24° 15′ *.....	29.96	761.0	75	23.9	81	ene.	.....	.....	4	.....	2	.....	e.	.....	.....	sm'h	.....	clear.
U. S. S. Kearsarge, Cartagena, U. S. C	29.82	757.4	76	24.4	90	e.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Lancaster, Corunna, Spain.....	30.12	765.0	59	15.0	54	ssw.	.....	.....	4	.....	5	.....	sw.	.....	.....	sm'h	sw.	fair.
U. S. S. Nipsic, N. 23° 21′, W. 60° 43′.....	30.31	769.9	74	23.3	72	ne.	.....	.....	6	.....	2	.....	ne.	.....	.....	long	ne.	fair.
U. S. S. Quinnebaug, N. 36° 00′, W. 5° 29′	30.39	771.9	56	13.3	80	wnw.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. St. Louis, League Island, Pa.....	30.59	777.0	25	— 3.9	87	n.	2	0.9	.....	.....	10	.....	.....	0	0	.....	.....	cloudy.
U. S. S. Tennessee, St. Croix, W. I*.....	30.12	765.0	79	26.1	86	e.	5	2.2	.....	.....	2	.....	.....	0	0	.....	.....	fair.
U. S. S. Vandalia, Port au Prince, Hayti, W. I*.....	30.09	764.3	75	23.9	85	s.	.....	.....	1	.....	1	.....	ne.	.....	.....	.....	.....	clear.
U. S. S. Vantic, Vera Cruz, Mexico	30.17	766.3	73	22.8	95	wnw.	.....	.....	1	.....	5	.....	.....	.....	.....	.....	.....	fair.
S. S. British Crown, N. 51° 05′, W. 11° 29′†	29.47	748.5	46	7.8	.....	sw.	.....	.....	6	.....	3	.....	wsw.	0	0	con.	.....	clear.
S. S. British Prince, N. 42° 09′, W. 57° 04′†	30.18	766.6	30	— 1.1	..	nnw.	.....	.....	8	.....	6	.....	nw.	0	0	r'gh	var.	
S. S. Illinois, N. 41° 05′, W. 59° 18′.....	30.30	769.6	38	3.3	90	n.	.....	.....	4	.....	9	.....	ne.	.....	.....	mod.	nnw.	cloudy.
S. S. Indiana, N. 47° 32′, W. 23° 33′.....	.....	.....	55	12.8	93	sw.	.....	.....	6	.....	10	.....	sw.	hail	hail	mod	sw.	hazy.
S. S. Lord Clive, off Tuskar, Ireland.....	29.63	752.6	.....	.....	.....	sw.	.....	.....	6	.....	6	.....	sw.	sh'rs	sh'rs	high	sw.	squally.
S. S. Lord Gough, N. 44° 53′, W. 55° 10′	30.04	763.0	22	— 5.6	.....	nw.	.....	.....	5	.....	5	.....	nw.	snow	snow	mod.	nw.	squally.
S. S. Ohio, N. 49° 27′ W. 30° 01′†	28.18	715.8	48	8.9	92	sse.	.....	.....	7	.....	9	.....	sw.	.....	.....	h'vy	ssw.	snow-squalls
S. S. Circassian, Halifax, N. S*.....	30.38	771.6	15	— 9.4	.....	nnw.	.....	.....	2	.....	2	.....	nw.	0	0	.....	.....	d. clouds.
S. S. Nova Scotian, N. 52° 10′ W. 27° 00	28.86	733.0	40	4.4	.....	e.	.....	.....	5	.....	10	.....	wnw.	.....	.....	mod.	ese.	heavy rain.
S. S. Manitoban, N. 43° 35′, W. 54° 25′.....	30.18	766.6	28	— 2.2	.....	nw.	.....	.....	6	.....	8	.....	nw.	3 h'r	3 h'r	h'vy	nnw.	cloudy.
S. S. Scandinavian, N. 53° 59′, W. 19° 21′.....	29.12	739.6	48	8.9	.....	wsw.	.....	.....	6	.....	7	.....	sw.	snow	snow	high	wnw.	threatening.
S. S. Stella, N. 47° 10′, W. 32° 20′	.....	.....	48.2	9	.....	sw.	.....	.....	8	.....	10	.....	wsw.	10 h'r	10 h'r	7	wsw.	squally.
S. S. Ailsa, Port Limon, Costa Rica†	30.04	763.0	84	28.9	83	ene.	.....	.....	2	.....	10	.....	ene.	o	o	sm'h	ene.	overcast.
S. S. Anchoria, N. 54° 45′, W. 18° 08′†	29.28	743.7	.....	.....	.....	wsw.	.....	.....	3	.....	2	.....	sw.	snow	snow	h'vy	w.	fine.
S. S. Assyria, N. 32° 35′, W. 40° 51′.....	30.28	769.1	68	20.0	100	wsw.	.....	.....	5	.....	2	.....	wsw.	.....	.....	mod.	wsw.	fine
S. S. Bolivia, N. 41° 02′, W. 56° 36′	30.38	771.6	36	2.2	.....	ene.	.....	.....	4	.....	10	.....	nnw.	10 h'r	10 h'r	r'gh	nnw.	overcast.
S. S. Dorian, N. 42° 46′, W. 65° 20′	30.44	773.2	32	0.0	.....	wnw	.....	.....	4	.....	4	.....	wnw.	snow	snow	mod.	w.	fine.
S. S. Marathon, N. 52° 13′, W. 6° 29′	29.72	754.9	50	10.0	.....	ssw.	.....	.....	5	.....	4	.....	ssw.	6 h'r	6 h'r	r'gh	ssw.	squally
S. S. Pavonia, N. 43° 36′, W. 48° 19′	29.87	758.7	32	0.0	89	wnw.	.....	.....	8	.....	10	.....	wnw.	8 h'r	8 h'r	h'vy	wnw.	raining.
S. S. Pereire, N. 47° 19′, W. 38° 45′†	28 44	722.3	39.2	4	.....	nw.	.....	.....	10	.....	10	.....	nw.	snow	snow	viol't	nw.	sprinkling.
S. S. Ville de Marseilles, N. 22° 00′, W. 86° 06′.....	.....	.....	75	23.9	.....	ene.	.....	.....	5	.....	4	.....	ene.	o	o	long	ene.	fair.
S. S. Abyssinia, N. 46° 33′, W. 41° 00′	28.86	733.0	50	10.0	86	nw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	r'gh	nw.	hail squalls.
S. S. Wyoming, N. 50° 58′ W. 17° 40′	28.87	733.3	45	7.2	.....	s.	.....	.....	8	.....	6	.....	w.	o	o	hv'y	ssw.	threatening.
S. S. Bohemia, N. 46° 49′, W. 31° 43′†	27.62	701.5	.....	.....	.....	wsw.	.....	.....	10	.....	10 k	.....	wsw.	18 h'r	18 h'r	h'vy	w.	hailing.
S. S. Silesia, N. 45° 26′, W. 47° 50′†	29.79	756.7	.....	.....	.....	wnw.	.....	.....	7–8	.....	5	.....	nw.	3 h'r	3 h'r	6	nw.	squally.
S. S. Vandalia, N. 56° 04′, E. 2° 42′	29.75	755.6	46.6	8.1	92	ssw.	.....	.....	4	.....	10	.....	ssw.	.....	.....	5	ssw.	cloudy.
S. S. Bulgarian, N. 48° 24′, W. 40° 41′ *	28.93	734.8	.....	.....	.....	nnw.	.....	.....	8	.....	10	.....	nnw.	8 h'r	8 h'r	high	nnw	
S. S. Virginian, N. 49° 38′, W. 19° 02′ *.....	29.11	739.4	50	10.0	.....	s.	.....	.....	9	.....	10	.....	ssw.	4 h'r	4 h'r	hv'y	wnw.	rainy.
S. S. Archimedes, N. 17° 32′ W. 24° 35	30.09	764.3	.....	.....	.....	ne.	.....	.....	5	.....	2	.....	ene.	o	o	mod.	ne.	fair.
S. S. Colorado, Galveston Bar †	30.20	767.1	57	13.9	.....	se.	.....	.....	1	.....	fg.	.....	se.	o	o	small	se.	foggy.
S. S. Rio Grande, N. 32° 06′, W. 79° 03′†	30.40	772.1	62	16.7	.....	ne.	.....	.....	5	.....	10	.....	ene.	driz	driz	long	.....	light fog.
S. S. Chalmette, N. 31° 13′ W. 80° 20′ †	30.37	771.4	65	18.3	.....	ne.	.....	.....	6	.....	10	.....	.....	1 h'r	1 h'r	r'gh	ne.	hazy.
S. S. New York, N. 26° 00′, W 85° 20′ †	30.31	769.9	76	24.4	.....	e.	.....	.....	4	.....	3	.....	e.	o	o	sm'h	.....	clear.
S. S. Lone Star, N. 25° 03′, W. 83° 45′ †	30.22	767.6	73	22.8	.....	e.	.....	.....	3	.....	2	.....	e.	o	o	small	e.	fine.
S. S. Hermod, N. 49° 32′, W. 9° 20′ †	29.64	752.8	53.6	12	.....	wsw.	.....	.....	6	.....	4	.....	w.	6 h'r	6 h'r	long	wnw.	clear.
S. S. Archimede. N. 33° 05′, W. 41° 41′†	30.28	769.1	72	22.2	.....	wsw.	.....	.....	5	.....	2	.....	w.	o	o	r'gh	w.	clear.
S. S. Picqua. N. 36° 00′ W. 14° 50′	.....	.....	62	16.7	.....	nw.	.....	.....	1	.....	1	.....	nw.	o	o	long	nw.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S City of Merida, N. 23° 09′ W. 82° 22′	30.21	767.3	82	27.8		ne.			2		2		ne.	0	0	light	ne.	fine.
S. S. City of Washington, N. 19° 06′, W. 96° 09′†	29.98	761.5	80	26.7		w.			1		5		e	0	0	sm'h		fine.
S. S. Santiago, Santiago, Cuba, W. I	30.13	765.3	72	22.2		ne.			2		0			0	0			fine.
S S. Denmark, Beachy Head, Eng			52	11.1		sw.			6		2		sw.	0	0	sm'h		clear.
S. S. Egypt, N. 49° 38′, W. 29° 31′			49	9.4		s.			6		10		s.	4 h'r	4 h'r	cross	var.	cloudy.
S. S. England, N. 49° 30′ W. 32° 53′	28.09	713.5				ese.			6		8		se.	sq'lls	sq'lls	h'vy	cf'd	cloudy.
S. S. The Queen, N. 48° 34′, W. 28° 30′			49	9.4		ssw.			6		10		ssw.	hail	hail	h'vy	sw.	rainy.
S. S. America, N. 49° 38′, W. 11° 54′*	29.71	754.6	53.0	11.7	96	sw.			3		2		nw.	0	0	h'vy	nw.	clear.
S. S. Braunschweig, N. 31° 52′, W. 18° 03′	30.33	770.4	76.0	24.4	82	ene.			3		4		e.	0	0	h'vy	nnw.	fair.
S. S. Donau, N. 47° 10′. W. 36° 16′	28.03	711.9				sw.			6-8		8		w.	24 h'r	24 h'r	high	var.	fair.
S. S. Hermann, N. 37° 55′, W. 71° 48′	30.52	775.2	41	5.0	69	n.			4		2		n	0	0	3	n.	fair.
S. S. Weser, N. 49° 48′, W. 6° 00′	29.78	756.4				sw.			5-7		8		sw.	2 h'r	2 h'r	long	var.	fair.
S. S. Muriel, Antigua, Windward Island, W. I*	30.11	764.8	79	26.1		ene.			3		0					sm'h		
S. S. Belgenland, N. 48° 54′ W. 16° 05′ *†	29.30	744.2	48	8.9	100	sse.			7		10		ssw.	4 h'r	4 h'r	h'vy	var.	overcast.
S. S. Nederland, N. 46° 10′ W. 36° 28′†	28.28	718.3	42	5.6	83	wnw.			9		10		nw.	8 h'r	8 h'r	h'vy	wnw.	gale.
S. S. Rhynland, N. 50° 00′, W. 10° 00′	29.73	755.1	48	8.9	92	wsw.			7		4		wsw.	2 h'r	2 h'r	high	w.	squally.
S. S. Pennland, Antwerp, Belgium	29.95	760.7	46	7.8	?	se.			3		2		sw.	0	0			fine.
S. S. Switzerland, N. 42° 28′, W 57° 00′ †	30.23	767.8				nw.			4		8		nw.	2 h'r	2 h'r	r'gh	nw.	fair.
S. S. Waesland, Jersey City, N. J	30.58	776.7	30	— 1.1		n.			4		5		nw.	0	0			fair.
S. S. Zeeland, Antwerp, Belgium *†	29.90	759.4	52	11.1		se.			3		10		se.	0	0	sm'h		cloudy.
S. S. P. Caland, N. 47° 25′, W. 33° 15′.	27.98	710.7	49.3	9.6	95	nw.			10		10		nw.			8	nw.	stormy.
S. S. Rotterdam, N. 40° 40′, W. 65° 38′°	30.45	773.5	41.9	5.5	88	ne.			1		8		n.	0	0	2	n	cloudy.
S. S. W. A. Scholten, Rotterdam, Netherlands*	29.89	759.2	45.6	7.6	92	sw			3		8		sw.	0	0			cloudy.
S. S. Caracas, N. 18° 34′ W. 67° 44′†	30.22	767.6	79	26.1	86	ene.			6		2		e.	0	0	mod	ene.	hazy.
S. S. Claudius, Livingston, Honduras†	30.14	765.5	73.5	23.1	100	n.			3		10			1 h'r	1 h'r	short	n.	heavy rain.
S. S. Valencia, N. 14° 05′, W. 68° 55′ †	30.12	765.0	80	26.7	82	e.			6		4		e.	0	0	h'vy	e.	fine.
S. S. State of Florida, N. 55° 14′, W. 10° 01′	29.23	742.4	46	7.8		wsw.			7		10		wsw.	6 h'r	6 h'r	h'vy	w.	overcast.
S. S. Romano, Portland, Eng			46	7.8		wsw.			5		4		w.	0	0	mod.	ssw.	fair.
S. S. Salerno, Hull, Eng†	29.70	754.4	45	7.2		s.			8		10		s.	3 h'r	3 h'r	rg'h	se.	raining.
S. S. Brooklyn, N. 42° 47′, W. 53° 11′			26	— 3.3		wnw.			6				wnw.	3 h'r	3 h'r	h'vy	wnw.	squally.
S. S. Surrey. N. 43° 15′, W. 60° 29′†	30.28	769.1	26	— 3.3		nw.			6		5†		nw.	2 h'r	2 h'r	str'g	var.	clear†
S. S. Olbers, N. 43° 31′. W. 9° 45′*†	29.95	760.7	55	12.8		ssw.			6		9		var.	12 h'r	12 h'r	h'vy	var.	showery.
S. S. Plantyn, N. 48° 22′, W. 30° 01′									8		5		w.	0	0	high	nw.	
S. S. Norman, Philadelphia, Pa*†	30.55	776.0				n.			1				nnw.	0	0			cloudy.
S. S. Saxon, Philadelphia, Pa†	30.44	773.2				nne.			5		10							threatening.
S. S. Britannic, N. 42° 46′, W. 51° 18′†	30.07	763.8	32	0.0	100	nw.			6		5		nw.	4 h'r	4 h'r	cross	wnw.	fair.
S. S. Celtic, N. 48° 55′, W. 31° 54′†	28.28	718.3	48	8.9		w.			7		8		w.	sh'rs	sh'rs	hv'y	nw.	threatening.
S. S. Auckland, N. 0° 25′, W. 26° 48′	29.95	760.7	82	27.8	75	sse.			3		2							blue sky.
S. S. Chamois, N. 28° 45′, W. 33° 39	30.40	772.1	66.5	19.2	54	calm			0		5							d. clouds
S. S. City of Agra, N. 23° 13′, W. 45° 00′	30.31	769.9	74	23.3	68	ene.			5		10							overcast
S. S. Ptolemy, N. 1° 00′. W. 41° 26′	29.97	761.2	80.2	26.8	91	ne.			4		4							d. clouds.
S. S. Antonio Lopez, N. 20° 06′, W. 70° 44′	30.14	765.5	75	23.9	86	ene.			4		4			0	0	mod.	ene.	fair.
Schr. Abbie H. Gheen, Cape Henlopen, Del†	30.59	777.0	30	— 1.1		ne.			1									cloudy.
Bg. Abbie Clifford, Cardenas, Cuba, W. I†	30.19	766.8	75	23.9		ene.			2		2		e.	0	0			fair.
Bk. Aquidneck, N. 32° 23′, W. 47° 08′*†	30.40	772.1				var.			2				sw.	light	light	light	n.	clear.
Bg. Alcira, Maracaybo, Venezuela, S. A	29.96	761.0	84	28.9		e.			1		3		ene.	0	0			clear.
Schr. Anna A. Holton, Tampico, Mexico†	30.11	764.8	76	24.4		se.			1		10		se.	4 h'r	4 h'r	sm'h		foggy.
Schr. Annie R Lewis, St. Pierre, Martinique, W. I†	30.18	766.6	78	25.6		ese.			1		10		ese.	6 h'r	6 h'r			raining.
Bk. Anna Thormann, N. 12° 00′ W. 30° 43′*	30.15	765.7	73.4	23.0	66	ne.			6		7 k		ne.	0	0	r'gh	ne.	cloudy.
Bk. Aureola, Swansea, Wales*	29.95	760.7	68	20.0		wsw.			6		9		wsw.	3 h'r	3 h'r			cloudy.
Bk. Achille F, N. 52° —′ W. 9° —′†	29.71	754.6	48	8.9	85	wsw.			6		5		wsw.	4 h'r	4 h'r	long	wsw.	squally.
Bg. Annie R. Storer N. 0° 55′, W. 42° 40′						ese.			4		1		ese.	0	0	long	n.	fair.
S. Armenia, N. 11° 26′, W. 31° 50 *	29.99	761.7	72	22.2	85	ne.			5		1		ne.	0	0	mod.	ne.	clear.
S. S. Burswell, Holyhead, Eng*†	29.40	748.3				ssw.			5		6		s.	5 h'r	5 h'r	sm'h		threatening.
Bk. Bremen, N. 39° 18′, W. 73° 25′ *	30.50	774.7				ne.			2		2		ne.	0	0	mod.	ne.	covered.†
S. S. Benledi, N. 46° 30′, W. 20° 00′			55	12.8	93	ssw.			6		10		w.	12 h'r	12 h'r	h'vy	var.	raining.
Bkt. Bonny Doon, N. 37° 34′, W. 72° 45′*†	30.36	771.1				nne.			3		8		ne.	driz.	driz.	long	ne.	cloudy.
Bk. Bare, N. 13° 11′, W. 29° 00′			74	23.3		ene			5		4		ene.	0	0	mod.	ene.	hazy.
Bk. Pilgrim, N. 29° 40′, W. 44° 55′*†	30.40	772.1				sw			2		7		ne.	0	0	mod	ene.	cloudy,
Bk. Champion, N. 45° 30′, W. 27° 45′			60	15.6		wsw.			9		10		w.	24 h'r	24 h'r	cross	wsw.	
Bkt. C. S. Bushnell, N. 36° 30′, W. 1° 40′	30.32	770.1				s,			1		0			0	0	sm'h		fine.
S. Cornelius, N. 55° 47′, W. 21° 19′†	28.94	735.1	39.9	4.4		wsw.			4		5		wsw.	4 h'r	4 h'r	h'vy	wsw.	squally.
Bk. Commerce, Cadiz, Spain†	30.23	767.8	55	12.8		nne.			2		0			3 h'r	3 h'r			fine.
Bk. Ceres, N. 5° 24′, W. 25° 48′*	29.99	761.7	79.2	26.2	72	nne.			3		4		sse.	0	0	sm'h	nne.	hazy.
Bk. Chas. Stewart, N. 26° 02′, W. 39° 40′†	30.41	772.4	72	22.2		ese.			2		5		var.	shr's	sh'rs	r'gh	var.	misty.
S. S. D. J. Foley, N. 35° 39′, W. 74° 54′*†	30.45	773.4	49	9.4	92	nne.			6		10		ssw.	0	0	mod.	ne.	cloudy.
Schr. Edith R. Seward, Palenque, Hayti, W. I †	30.13	765.3	79	26.1		ene.			2		4		ene.	0	0	sm'h	ese.	clear.
S. E. J. Spicer, N. 40° 28′, W. 20° 50′	29.70	755.9	57	13.9	100	w.			7		7		w.	0	0	high	nw.	cloudy.
S. S. Fostolfo, N. 50° 10′, W. 2° 20′†	29.92	760.0				sw.			6		5		sw.	0	0	high	w.	fair.
S. Festina Lente, N. 55° 31′, W. 23° 24′	28.97	735.8	35	1.7		s.			2		2		s.	10 h'r	10 h'r	h'vy	wsw.	clearing.
Bk. Grey Eagle, N. 31° 39′, W. 74° 00′ †.						var.			1		5		wnw.	2 h'r	2 h'r	cf'd	ne.	fine.
Bg. Gipsey Queen, N. 21° 12′, W. 75° 50′ *†	30.10	764.5	78	25.6		e.			7		10					mod.		clear.
Bg. George, N. 37° 00′, W. 72° 00′*†	30.50	774.7				nne.			5		10			0	0	mod.	n.	cloudy.
Bk. Heinrich & Tonio, N. 39° 17′, W. 73° 19′†	30.42	772 7	38	3.3		ne.			1		5		w.	0	0	sm'h		fair.
Schr. Hattie Weston, Mayaro, Trinidad, W. I *†	30.10	764.5	80	26.7		e.			4		8		e.	0	0	mod.	e.	cloudy.
Bk. Hattie G. McFarland, Pascagoula, Miss*†	30.20	767.1	66	18.9		e.			1		fg.			0	0			foggy.
Bk. Horace Scudder N. 22° 33′, W. 42° 17′*†	30.30	769.6	74	23.3		ene.			4		7		ene.	sqll's	sqll's	h'vy	e.	cloudy.
Schr. Isabel Alberto, N. 34° 41′, W. 74° 20′†	30.40	772.1				ene.			1		10		e.	0	0	cross	var.	cloudy.
S. S. J. W. Wilson, Tampico, Mexico*†	30.10	764.5	76	24.4		se.			1		fg.			4 h'r	4 h'r			foggy.
Schr. John L. Thomas, N. 23° 29′ W. 82° 22′*†	30.28	769.1				e,			3		1		ese.	0	0	short	ene.	clear.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe*†	30.18	766.6				e.			1		2		e.	light	light			clearing.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3				calm			0		0			0	0			fine.
S. S. Madrid, N. 54° 55, W. 1° 10′*†	29.62	752.3	40	4.4	91	sw.			6		1		wsw.	0	0	mod.	s.	clear.
Bk. Mary A. Troop, Sharpness Point, Eng*†	29.72	754.9				wnw.			8		3		nw.	2 h'r	2 h'r			clearing.
Bk. Matilda C. Smith Brouwershaven, Netherlands†	29.81	757.2				s.			4		3		ssw.	4 h'r	4 h'r	mod.	s.	clearing.
Bgt. Myrtle, Saint Thomas, W. I*†	30.00	762.0				e.			3		1		e.	0 h'r	0 h'r			fair.
S. M. P. Grace, N. 29° 58′, W. 44° 15′*	30.29	769.4	66	18.9		var.			1-3		6		nw.	sli't	sli't	long	ene.	
S. S. Mendoza, N. 33° 50′, W. 57° 10′*†	30.35	770 9				wsw.			5		8		e.	0	0	mod		cloudy.
Bkt. Norena, Matanzas, Cuba, W. I *†	30.29	769.4				e.			1		2		ne.	0	0			fine.
Schr. Ocean Traveler, N. 25° 38′, W. 72° 03′ †	30.22	767.6				ene.			5		5							fair.
Bk. Ottawa, Torrevieja Road, Spain*	30.22	767.6	58	14.4		nnw.			5		0			0	0			clear.
Bk. Reindeer, N. 14° 05′ W. 61° 12′*	30.06	763.5				ene.			6				ene.					clear.
S. Rudolph, N. 26° 32′ W. 35° 35′			66.0	18.9		e.			2		9		var.	1 h'r	1 h'r	long	wnw.	showery
Bk. Saga, N. 50° 08′, W. 9° 50′*†	29.84	758.0				w.			6-9					18 h'r	18 h'r	8-9	wnw.	hailing
Bk. Sunbeam, N. 35° 09′, W. 18° 20′	30.20	767.1	60	15.6	76	sw.			4		5		sw.	0	0	h'vy	wnw	fair.
Bk. Scud, N. 22° 32′, W. 66° 30′*†	30.20	767.1				ene.			6		4		ene.	sh'rs	sh'rs	mod.	ene.	showery.
Schr. S. B. Hubbard, N. 36° 24′, W. 74° 18′*†	30.50	770.2	51	10.6		nne.			4				nne.	0	0	sm'h	nne.	cloudy.
Bk. Usko, N. 46° 34′, W. 8° 40′*†	29.90	759.4				s.			6		3		wsw.	2 h'r	2 h'r	h'vy		fair.
S. Vincenzo Accame, N. 38° 20′. W. 54° 05′†	30.35	771.0	66.8	19°		n.			5		5		n.	6 h'r	6 h'r			
Schr. Viola Reppard, Tybee Island, Ga†	30.38	771.6	61	16.1		ne			4		10		ne.	1 h'r	1 h'r			rainy.
Schr. Wm. Wiler, Pointe a Pitre, Guadeloupe, W I†	30.08	764.0				e.			1		1		e.	0	0			fine.
S. Wm. Woodbury, N. 62° 20′, W. 15° 24′			43	6.1		sw.			0		3		s.			long	s.	clear.
S. S. Colon, N. 31° 00′, W. 73° 24′ †	30.35	770.9	73	22.8		ssw.			1		9		sw.	2 h'r	2 h'r	mod.	n.	fair.
S. S Ambrose, N. 10° 52′, W. 59° 53′†	30.22	767.6	78	25.6		e.			4		2		e.	0	0	5	e.	fine.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2—South Atlantic.																		
H. M. S. Heroine, S. 38° 45′, W. 56° 18′	29.88	758.9	61	16.1	94	s.			3		1					sm'h		d. clouds.
H. M. S. Starling, S. 6° 29′, E. 6° 33′	29.93	760.2	83.5	28.6	91	sw.			1		1	ssw.						blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.88	758.9	69	20.6	84	sw.	14	6.3			5		sw.	0	0			fair.
U. S. S. Galena, Montevideo, Uruguay*	29.84	757.9	67	19.4	84	sw.			3		2		sw.			sm'h		fair.
S. S. Grecian, Montevideo, Uruguay *	29.90	759.4	66	18.9	87	ssw.			3		4		ssw.	0	0	sm'h		d clouds.
S. S. Hevelius, Buenos Ayres, La Plata†	30.04	763.0	70	21.1		sw.			4		1			0	0			clear.
S. S. May Hulse, S. 56° 17′, W. 63° 13′	29.68	753.9	43	6.1	75	wsw.			6		6							d. clouds.
Bk. Edmund Phiney, S. 56° 18′, W. 64° 40′ †	29.81	757.2	46	7.8		wsw.			6		6		wsw.	sq'lls	sq'lls	r'gh	wsw.	squally.
Bk. E. L. Pettingill, S. 30° 41′, W. 30° 31′ *†	30.30	769.6	76	24.4		nnw.			3		2		n.	0	0	sm'h		
S. E. B. Sutton, S. 22° 20′ W. 37° 25′†	30.13	765.3	82.5	28.1	79	ne.			3		2		ne.	0	0	sm'h	ne.	clear.
S. Grecian, S. 16° 20′, W. 32° 12 †	30.11	764.8	81	27.2	78	e.			5		3		se.	0	0	mod	se.	clear.
S. Geo. Stetson, S. 56° —′, W. 64° —′ *†	29.80	756.9	47	8.3	77	ssw.			6		5?		ssw.	0	0		w.	cloudy ?
S. Titan, S. 28° 56′, W. 45° 43′*†	29.98	761.5	83	28.3	87	nne.			1		3		n.	0	0	sm'h	nne.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay †	29.94	760.5	70	21.1		ssw.			4		6		s.	0	0			fair.
District No. 3—North Pacific.																		
S. S. Mexico, N. 24° 11′, W. 107° 33′†	30.05	763.3	66	18.9	74	calm			0		0					sm'h		clear.
S. S. Arabic, N. 22° 42′ E. 117° 09′, *†	30.02	762.5	59	15.0	88	se.			3		10		se.	sh'rs	sh'rs	sm'h		hazy
S. S. Belgic, N. 31° 17′, E. 132° 48′*†	30.33	770.4	59	15.0	59	n.			6		3		n.	0	0	r'gh	con.	clear.
S. S. Coptic, N. 37° 58′, W. 135° 12′	29.69	754.1	48.5	9.2	78	nw.			6		4		nw.	sh'rs	sh'rs	h'vy	nw.	raining.
S. S. Gaelic, N 47° 19′, E. 179° 01′	30.43	772.9	37	2.8	90	nnw.			5		10		n.	0	0		ne.	overcast.
S. S. Oceanic, N. 33° 13′, E. 161° 48′†	29.49	749.0	59	15.0	94	wsw.			3		9		w.			light	s.	raining.
S. S Oregon, San Francisco, Cal†	29.73	755.1	50	10.0	93	w.			1		8		sw.					cloudy.
S. S. Mississippi, Seattle, Wash. Ter†	29.38	746.2	39	3.9	73	se.			1		5		s.					fair.
S. S. Willamette, Seattle, W. T †	29.43	747 5	29	—1.7	89	sw.			2		4		w.	0.15	3.8			clear.
S. S. Dakota, N. 41° 50′, W. 124° 41′ *†	29.42	747.3	43	6.1	83	se.			8		10		se.	10 h'r	10 h'r	r'gh	sse.	cloudy.
S. S. G. W. Elder, N. 48° 11′, W. 124° 59′†	29.44	747.8	46	7.8	92	var.			4		0			snow	snow	large	w.	clear.
S. S. Orizaba, N. 32° 40′, W. 117° 14′ *†	29.95	760.7	57	13.9	87	sw.			7				sw.	rain	rain	con.	var.	cloudy.
S. S. State of California, Astoria, Oregon †	29.38	746.2	33	0.6	89	se.			1		5?		s.					cloudy?
S. S. City of Pekin, Hong Kong, China †	30.07	763.8	62	16.7	77	e.			4		8		e.					cloudy.
S. S. City of Tokio, N. 36° 01′, W. 137° 26′†	29.94	760.5	54	12.2	80	nw.			6		8		nw.	light	light	h'vy	nnw.	fin .
S. S. City of Rio de Janeiro, N. 7° 21′, W. 79° 59′			78	25.6	91	nnw.			4		8		wnw.	0	0	light	nw.	cloudy.
S. S. Colima, N. 13° 51′, W. 91° 02′†	29.94	760.5	80	26.7	96	ese.			3		2		calm	0	0	mod.	se.	clear.
S. S. Granada, Mazatlan, Mexico†	29.98	761.5	68	20.0	84	calm			0		0			0	0	sm'h		clear.
S. S. Zealandia, Honolulu, Sandwich Ids	29.85	758.2	76	24.4	86	sw.			2		8					sm'h		cloudy.
H. M. S. Curacoa, Yokohama, Japan	30.19	766.8	35.5	1.9	70	n.			4–6		0							squally.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.84	757.9	72	22.2		s.			1		6							raining.
H. M. S. Swiftsure, N. 0° 10′, W. 105° 10′	29.91	759.7	75	23.9	100	sse.			3–4		6	se.						d. clouds.
U. S. Naval Hospital, Yokohama, Japan*	30.38	771.6	33.5	0.8	61	nw.			1		0			0	0			clear.
U. S. S. Independence, Mare Island, Cal.	29.76	755.9	47	8.3	85	se.			1		2		se.	0.13	3.3			fair.
U. S. S. Lackawanna, Honolulu, Sandwich Islands*	29.78	756.4	70	21.1	86	sw.			3		5		sw.					fair.
U. S. S. Monocacy, Amoy, China	30.09	764.3	63	17.2	83	ese.			2		10		ne.					cloudy.
U. S. S. Palos, Tientsin, China*	30.37	771.4	31	— 0.6	100	ene.			2		10		calm					snowing.
U. S. S. Ranger, San Francisco, Cal.	29.71	754.6	52	11.1	?	s.			4		10		calm	0	0	sm'h		cloudy.
U. S. S. Richmond, Hong-Kong, China*	29.98	761.5	64	17.8	89	ene.			2		10		e.	0	0			cloudy.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.78	756.4	73	22.8	90	calm			0		10		ssw.			sm'h		overcast.
S. S. Scotia, N. 8° 35′, E. 109° 58′	29.90	759.4	77.9	25.5	83	nne.			4		7							d. clouds.
S. Henry Failing, N. 43° 30′, W. 126° 08′†	29.25	742.9	42	5.6		sw.			6		5		sw.	snow	snow	cross	s.	snowy.
S. St. Francis, N. 23° 23′ W. 125° 45′†	30.21	767.3	64	17.8		ne.			2		7		nw.	0	0	sm'h	n.	cloudy.
Tamega, Macao, China	30.07	763.8	65.3	18.5	88	nne.			3		10			0	0			overcast.
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.89	759.2	68	20.0	100	sse.			1		8					2		foggy.
H. M. S. Kingfisher, S. 12° 02′, W. 81° 43′	29.91	759.7	76	24.4		s.			3		8					3	s.	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	30.23	767.8	71.3	21.8	85	n.			1		3					sm'h		d. clouds.
H. M. S. Liffey S. 29° 56′, W. 71° 20′	29.88	758.9	60	15.6		calm			0									d. clouds.
H. M. S Rocket, S. 51° 25′, W. 73° 50′	30.09	764.3	54	12.2		nnw.			2									d. clouds.
H. M. S. Sylvia, Anna Id, Patagonia	30.03	762.7	49.2	9.6	85	wnw.			2		7							d. clouds.
U. S. S. Essex, Callao, Peru	29.90	759.4	69	20.6	95	sse.			1		10							cloudy.
U. S. S. Iroquois, S. 29° 53′, W. 99° 02′	30.24	768.1	70	21.1	75	sse.			2		2		se.			sm'h	s.	clear.
U. S. S. Onward, Callao, Peru*†	30.01	762.2	68	20.0	95	sse.			2		10		n.					foggy.
U. S. S. Pensacola, S. 13° 38′, W. 76° 50′*	29.80	756.9	68	20.0	90	sse.			2		8		s.	0	0	long	s.	fair.
British Merchant, S. 24° 45′, W. 131° 27′	29.97	761.2	75	23.9	81	sse.			3–4		3							squally.
Bk. Childwall, S. 14° 14′, W. 136° 00′ *	29.86	758.4	79	26.1		e. to se.			2–3		6		e.	¼ h'r	¼ h'r	sm'h		fine.
Bk. Gronsvaer, Auckland, N. Z †	30.23	767.8	76.6	24.8		ne.			3		2		ne.	¼ h'r	¼ h'r			clear.
S. S. Australia, Sydney, N S. W†	29.76	755.9	68	20.0	79	sse.			1		1		sse.	0	0			clear.
S. S. City of Sydney, Sydney, N. S. W †	29.88	758.9	78	25.6	73	sw.			4		5?		sw.	0	0			cloudy.?
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	29.86	758.4	69	20.6	90	e.			1		10					2	s.	misty.
Bk. Warden Law, S. 28° 30′, W. 84° 36′*	30.27	768.8				sse.			2		8		sse.	0	0	sm'h	se.	covered.
S Sovereign of the Seas, S. 52° 13′, W. 92° 14′ *†	30.11	764.8	50	10.0	93	wnw.			2		7		wnw.	0	0	high	wsw.	fair.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 6° 10′, E. 39° 11′	29.82	757.4	85	29.4		nne.			2		5	nne.				2	nnw.	d. clouds.
H. M. S. Eclipse, N. 28° 59′ E. 50° 48′	29.92	760.0	65	18.3		sse.			3		5	sse				1	ssw.	d. clouds.
H. M. S. Euryalus, Rangoon, India	29.87	758.7	80	26.7	82	se.			1		2	calm						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.88	758.9	83	28.3		nne.			2		2	nne.				2	nne.	d. clouds.
H. M. S. Woodlark, N. 28° 50′, E. 50° 45′	29.99	761.7	68.5	20.3	75	s.			5		6	s.				5	s.	squally.
S. S. Galatia, N. 20° 58′, E. 38° 25′†	29.95	760.7	76	24.4	90	n.			5		7		nnw.			long	sse.	cloudy.
Bk. Essex, S. 35° 13′, E 23° 20′ *†	30.00	762.0	75	23.9		wsw.			3		2		w.	0	0	high	sw.	fine.
Bkt. Josephine, S. 34° 50′, E. 22° 56′†	30.02	762.5	75	23.9	55	sw.			4		0			0	0	mod.	sw.	clear.
S. Sacramento, S. 45° 00′, E. 24° 23′*†	29.85	758.2	55	12.8	80	nnw.			6		3		nw.	0	0	mod.	wnw.	clear.

International Chart I. February 13, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B. Hazen, Chief Signal Officer.
Signal Office 14th.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 14, 1883,

7 A. M., Washington Mean Time.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind. Upper.	CLOUDS. Amount and kind. Lower.	CLOUDS. Direction. Upper.	CLOUDS. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	30.33	770.3	58.6	14.8	76	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.21	767.3	57.6	14.2	69	nw	.....	.....	5	.....	0	.....	.....	0	0	clear	Thève.
La Calle	.....	.....	30.14	765.6	56.8	13.8	59	wnw.	.....	.....	2	.....	2	.....	.....	0.256	6.5	fair	Fonfréde.
Tunis	.....	.....	30.19	766.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.33	770.4	58.6	14.8	74	sw.	.....	.....	3	.....	0	.....	.....	0	0	clear	Pérés.
Tebessa	.....	.....	30.26	768.6	43.9	6.6	83	nw.	.....	.....	1	.....	0	.....	.....	0.256	6.5	clear	Dognon.
Geriville	.....	.....	.....	.....	51.4	10.8	39	nnw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Forfert.
Laghouat	.....	.....	30.29	769.4	43.2	6.2	38	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.27	768.8	69.4	20.8	29	nw.	.....	.....	1	.....	4	.....	.....	0	0	cloudy	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.96	761.0	30.05	763.3	64.0	17.8	68	ese.	7	3.1	.....	.....	2	.....	.....	0	0	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.75	755.7	30.34	770.5	43.2	6.2	79	sw.	.....	.....	2	.....	6	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.56	750.8	30.36	771.2	36.9	2.7	72	ne.	2.5	1.1	.....	.....	4	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.49	749.0	30.41	772.5	35.6	2.0	57	calm	.....	.....	0	8 cs	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.05	737.8	30.35	771.0	38.5	3.6	83	e.	.....	.....	1	.....	10	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.95	735.2	30.46	773.6	33.4	0.8	85	sse.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.92	734.6	30.34	770.6	32.5	0.3	92	se.	.....	.....	1	.....	10	.....	.....	0	0	gloomy	The Staff.
Lemberg	29.44	747.8	30.49	774.4	33.1	0.6	34	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.89	682.9	30.32	770.2	44.2	6.8	32	se.	.....	.....	2	.....	2	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.08	764.1	30.20	767.0	50.0	10.0	82	e.	.....	.....	3	.....	10	.....	.....	0.150	3.8	.....	I. R. Hydrographic Office.
Szathmar	29.90	759.5	30.37	771.3	44.1	6.7	24	se.	.....	.....	3	.....	0	.....	.....	0	0	.....	Joseph Midlinszay, S. J.
Szegedin	30.08	764.1	30.37	771.5	40.6	4.8	56	se.	.....	.....	1	.....	4	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.13	765.4	30.23	767.9	52.5	11.4	56	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Royal Academy.
Vienna	29.01	752.2	30.36	771.2	37.6	3.1	64	se.	.....	.....	1	.....	9	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.27	743.4	29.37	746.0	43.5	6.4	88	sse.	39	17.4	.....	.....	10	.....	.....	0.120	3.0	raining	W. Boswell
Armagh, Observatory	28.96	735.6	29.19	741.4	50.0	10.0	74	ssw.	30	13.4	.....	.....	7	.....	.....	.....	.....	squally	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.48	748.8	48.3	9.1	96	se.	33	14.8	.....	.....	10	.....	.....	.....	.....	raining	John Hartnup.
Bolton, Sharples	29.00	736.6	29.53	750.0	47.8	8.8	86	s.	30	13.4	.....	.....	10	.....	.....	.....	.....	squally	Thomas Mackereth.
Bradford, Yorkshire	29.18	741.2	29.58	751.3	48.6	9.2	82	sw.	.....	.....	0	.....	10	.....	.....	0.06	1.5	overcast	McLandsborough&Preston.
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	80.0	26.7	70	ne.	.....	.....	3	.....	6	.....	.....	.....	.....	gloomy	Corpl. J. Surgenor, A. H. C
Cardington	29.71	754.6	29.81	757.2	47.0	8.3	86	s.	.....	.....	6.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.82	757.4	29.95	760.7	45.1	7.3	93	sw.	.....	.....	5	.....	10	.....	.....	.....	.....	misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.38	746.2	29.61	752.1	51.3	10.7	95	s.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	The Staff.
Fort Napier, Natal	27.64	702.0	29.77	756.1	70.0	21.1	84	calm	.....	.....	0	.....	10	.....	.....	.....	.....	overcast	Corpl. F. Milner, A. H. C.
Freetown	29.63	752.6	29.86	758.4	86.0	30.0	84	n.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	29.08	738.6	29.12	739.6	48	8.9	71	sw.	.....	.....	6	.....	6	.....	.....	0.38	9.7	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.33	770.4	30.39	771.9	59.4	15.2	94	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.03	737.3	29.23	742.4	49.2	9.6	80	sse.	.....	.....	7	.....	10	.....	.....	.....	.....	squally	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.73	755.1	29.90	759.4	46.2	7.9	89	ssw.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	The Staff.
Guernsey	29.58	751.3	29.88	758.9	48	8.9	93	s.	.....	.....	5	.....	10	.....	.....	.....	.....	raining	A. Collenette, F. M. S.
Kew, Observatory	29.86	758.4	29.89	759.2	46.0	7.8	92	s.	33	14.8	.....	.....	10	.....	.....	.....	.....	raining	The Staff.
Leicester, Museum	29 46	748.3	29.71	754.6	47.5	8.6	92	sw.	.....	.....	5	.....	10	.....	.....	.....	.....	raining	J. C. Smith.
Malta, Mediterranean	30.09	764 3	30.10	766.1	57.6	14.2	79	s.	.....	.....	2	.....	3	.....	.....	0	0	b,ue sky	Corpl. Keene, A. H. C
Nassau, Bahamas	30.13	765.3	30.17	766.3	75.0	23.9	81	e.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.14	740.1	29.67	753.6	46.5	8.1	90	ssw.	.....	.....	6	.....	10	.....	.....	.....	.....	drizzling	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.56	750.8	29.79	756.7	46.7	8.2	89	sse.	.....	.....	7	.....	10	.....	.....	.....	.....	showery	The Staff.
Plymouth	29.66	751.8	29.67	753.6	50.2	10.1	98	s'	.....	.....	6	.....	10	.....	.....	.....	.....	raining	John Merrifield.
Sandwick Manse, Orkneys	29.07	738.4	29.17	740.9	43	6.1	91	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	raining	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.31	769.9	30.38	771.6	33.0	0.6	90	n.	.....	.....	3	.....	10	.....	.....	.....	.....	snowing	W. H. Lyne.
Sheffield	29 36	745.7	29.64	752.8	47.2	8.4	97	ssw.	.....	.....	3	.....	10	.....	.....	0.05	1.3	drizzling	W. F. Cooper.
Silloth Rectory	29.31	744.5	29.34	745.2	51.0	10.6	85	s.	.....	.....	6	.....	10	.....	.....	0.090	2.3	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.53	750.0	48.1	8.9	84	s.	49	21.8	.....	.....	10	.....	.....	.....	.....	squally	Rev. S. J. Perry.
Stratfield Turgiss	29.64	752.8	29.80	758.4	46.3	7.9	90	s.	.....	.....	3-4	.....	10	.....	.....	.....	.....	raining	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.80	756.9	29.84	757.9	56	13.3	87	sw.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.19	741.4	29.21	741.9	48.5	9.2	62	ssw.	55	24.6	.....	.....	7	.....	.....	blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.84	757.9	30.23	767.8	52.2	11.2	87	nw.	12.4	5.5	.....	.....	10 n	.....	nw.	0.583	14.8	cloudy	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B	.....	.....	.....	.....	8	—13.3	.....	calm	0	0	.....	0	0	.....	.....	0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.84	757.9	29.88	758.9	19	— 7.2	77	sw.	17	7.6	.....	.....	10 s	.....	nw.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.80	756 9	29.87	758.7	15	— 9.4	83	sw.	7	3.1	.....	5 c	2 ks	sw.	sw.	0	0	fair	G. A. Blair.
Cornwall	29.98	761.5	30.19	766.8	12.6	—10.8	90	nw.	.....	.....	1	.....	10 s	.....	.....	0	0	overcast	Jas. Smith, M. A.
Dalhousie	29.75	755.6	29.80	756.9	19.0	— 7.2	.....	w.	.....	.....	2	.....	10 s	.....	.....	0	0	overcast	H. A. Johnson.
Father Point, Quebec*	29.77	756.1	29.79	756.7	25	— 3.9	96	w.	50	22.4	.....	.....	8 s	.....	nw.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.88	733.5	29.77	756.1	16	— 8.9	100	se.	10	4.5	.....	.....	10 n	.....	se.	0.24	6.1	cloudy	James Stewart.
Fredericton	29.94	760.5	30.02	762.5	16.8	— 8.4	83	w.	5	2.2	.....	7 cs	0	.....	.....	0	0	d. clouds	Prof. Harrison, L. L. D.
Granton	28.90	735.6	30.13	765.3	22.3	— 5.4	96	ne.	2	0.9	.....	.....	10 n	.....	.....	0	0	overcast	Jas. Grant.
Halifax, N. S*	29.95	760.7	30.09	764.3	17	— 8.3	100	sw.	2	0.9	.....	2 cs	0	w.	.....	0	0	fair	A. Allison.
Hamilton	29.67	753.6	30.08	764.0	22.1	— 5.5	90	sw.	.....	.....	1	10 cs	0	.....	.....	0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.86	758.4	30.23	767.8	11	—11.7	96	sw.	1	0.4	.....	.....	hz.	.....	.....	0	0	hazy	A. P. Knight, M. A.
Montreal, Quebec*	29.96	761.0	30.18	766.6	16	— 8.9	83	w.	12	5.4	.....	.....	10 n	.....	.....	0	0	cloudy	C. H. McLeod, C. E.
Ottawa	29.95	760.7	30.22	767.6	5.5	—14.7	98	w.	.....	.....	1	0	0	.....	.....	0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.41	747.0	30.18	766.6	6	—14.4	76	e.	8	3.6	.....	.....	10 n	.....	e.	0	0	cloudy	Rev. R. Mosley.
Peterboro	29.48	748.8	30.31	769.9	7.8	—13.4	77	calm	.....	.....	0	.....	10 n	.....	.....	0	0	overcast	J. Dixon, B. A.
Port Dover, Ontario	29.39	746.5	30.13	765.3	21	— 6.1	100	calm	0	0	.....	.....	10 n	.....	.....	0	0	threatening	H. Morgan.
Port Stanley, Ontario	29.41	747.0	30.10	764.5	25	— 3.9	67	e.	5	2.2	.....	.....	10 n	.....	e.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.77	756.1	30.12	765.0	12	—11.1	100	sw.	.....	.....	6	5 c	5 n	.....	w.	.....	.....	light snow	Capt. Ashe, R. N
Rockliffe, Ontario*	29.72	754.9	30.24	768.1	— 3	—19.4	87	w.	2	0.9	.....	.....	hz	.....	.....	0	0	dens e haze.	W. H. McIntyre.
Saugeen, Ontario*	29.36	745.7	30.13	765.3	20	— 6.7	87	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	
St. Andrews, N. B	29.98	761.5	30.03	762.7	19	— 7.2	92	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	
St. John, N. B	29.86	758.4	30.04	763.0	21	— 6.1	85	w.	10	4.5	.....	5 ck	0	.....	.....	0	0	d. clouds	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.84	757.9	24.8	— 4.6	.....	w.	.....	.....	4	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	28.76	730.5	30.13	765.3	21.0	— 6.1	86	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	overcast	C. J. Macgregor, M. A.
Sydney, C. B*	29.88	758.9	29.95	760.7	11	—11.7	91	sw.	17	7.6	.....	10 cs	0	.....	.....	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.78	756.4	30.20	767.1	17	— 8.3	96	w.	5	2.2	.....	.....	10 ks	.....	.....	0	0	cloudy	Magnetic Observatory.
Windsor	29.91	759.7	30.01	762.2	23.0	— 5.0	86	sw.	16	7.2	.....	4 k	.....	.....	.....	0	0	fine	Prof. W. H. Butler, M. A.
Woodstock	29.05	737.9	30.20	767.1	18.7	— 7.4	100	ne.	1.0	0.4	.....	.....	10 s	.....	.....	0	0	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.04	763.0	30.11	764.8	30	— 1.1	85	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction Upper.	Clouds. Direction Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Cape Colony.																			
Cape St. Francis Lt. House	29.92	760.0	29.95	760.7	75.0	23.9	74	se.	6.3	2.8		0	1 8			0	0	hazy	John Duthie.
Springbok Fontein	27.87	707.9			85	29.4	61	sw.											J. T. Eustace.
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.52	622.8			27.1	— 2.7		calm			0		0					clear	
Tchang-kia-tchouang	30.18	766.6	30.29	769.4	33.3	0.7	96	e.			2		10			0	0	covered	R. P. Desurmont, S.J.
Zi-Ka-Wei, near Shanghai	30.08	763.9	30.10	764.5	45.7	7.6	95	wnw.	8.5	3.8			10 k			0.118	3.0	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.21	767.2	30.25	768.4	31.3	— 0.4	98	e.	9	4			10					foggy	Oversergent Fischer.
Fanoe	30.20	767.1	30.22	767.6	36.9	2.7	100	s.			2		10					foggy	Overloerer Lauridsen.
Godthaab, Greenland	28.79	731.2	28.53	732.3	10.0	—12.2	100	calm			0		10						S. Kleinschmidt.
Ivigtut, Greenland	28.69	728.7	28.71	729.2	4.8	—15.1		calm			0		6						
Jacobshavn, Greenland	29.01	736.9	29.06	738.1	—10.1	—23.4		calm			0		3						
Stykkisholm, Iceland	28.65	727.8	28.70	728.9	29.5	— 1.4	90	e.			6		10						A. O. Thorlacius.
Thorshavn	29.05	737.9	29.09	738.8	44.2	6.8	87	se.	31	14			10					raining	Overloerer Bergh.
Vestervig	30.09	764.3	30.18	766.6	36.5	2.5	100	sse.			4		9					foggy	Loerer Oesterbol.
Upernavik, Greenland	29.16	740.0	29.21	741.8	—13.7	—25.4		e.			2		3						
French.																			
Agen, Normal School	29.67	753.6	30.34	770.5	46.0	7.8	89	sse.			1	c	0			0	0		M. Labroue, Director.
Alençon, Normal School	29.65	753.0	30.20	767.0	46.0	7.8	97	s.			1		10 n	n.	n.			raining	M. Nicot, Director.
Arras, Engineer School	29.86	758.4	30.13	765.2	46.2	7.9	80	sw.			1		sn			0.240	6.1		M. Fénéon, Command't.
Avignon, Normal School	30.11	764 7	30.19	766.7	50.0	10	66	nnw.			4		0			0.409	10.4	clear	M. Giraud, Director.
Bar-sur-Seine	29.72	754.9	30.30	769.6	40.3	4.6	93	sse.			1	0	5 kn	s.		0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.92	759.9	30.19	766.9	47.3	8.5	72	s.			1		8			0	0	very cloudy.	M. Frère Eugène Marié
Besançon, Normal School	29.31	744.4	30.22	767.6	48.6	9.2	76	ne.			3		k		e.	0.35	9.		M. Gobin, Director.
Bordeaux, Observatory	29.98	761.4	30.24	768.1	50.5	10.3	62	se.			1		8		w.	0.004	0.1	very cloudy.	M. Rayet, Director.
Bourges, Normal School	29.70	754 3	30.26	768.6	49.1	9.5	69	ese.			1	2 c	0	se.		0.453	11.5	slightly cl'dy	M. Malet, Director.
Brest, Naval Observatory	29.63	752.5	29.87	758.7	50.4	10.2	97	ssw.			6		10		sSW	0.197	5.0	raining	M. de Kermarec, Dir.
Caen, Normal School	30.16	766.0	30.23	767.9	47.5	8.6	89	nne.			2		10		nne.	0.020	0.5	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.87	758.6	30.20	767.0	38.7	3.7	97	se.			1		10			0.197	5.0	covered	M. Judot, Director.
Charleville, Normal School	29.73	755.2	30.25	768.4	39.0	3.9	83	sse.			1		2			0.08	2.	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.87	733.4	30.26	768.6	48.6	9.2	63	w.			1		5			0.031	0.8	½ covered	M. Allnard, Director.
Cluny, Normal School	29.40	746.7	30.27	768.8	45.5	7.5	83	n.			1		7		nw.	0.445	11.3		M. de Villemontée, Dir.
Commercy, Normal School	29.40	746.8	30.29	769.4	41.4	5.2	92	nw.			1		10 n	nw.	nw.	0.12	3.	covered	Dr. Goulet, Director.
Gap, Normal School	27.61	701.3	30.21	767.3	42.4	5.8	63	se.			4	1 c		s.	s.	0.63	16.		M. Jeangirard, Director.
Grénsque, du Rhone	29.01	736.8	30.15	765.7	52.3	11.3	59	ne.			1		3		sw.	0.370	9.4		M. Kina, Director.
Grenoble, Normal School	29.47	748.4	30.26	768.5	43.2	6.2	82	ssw.			1		kn		ne.	0	0		M. Ablard, Director.
Guéret	28.66	728.0	30.24	768.0	48.2	9	67	sw.			3		kn		sw.	0	0		M. Delorme, Dir.
Lamballe, Normal School	29.72	755.0	30.00	762.0	48.9	9.4	81	s.			3		10		s.	0	0	covered	M. Ollitrault, Director.
Lescar, Normal School	29.63	752.6	30.20	767.0	55.8	13.2	40	wsw.			1	5 c	0			0.098	2.5	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.89	759.2	29.99	761.8	51.4	10.8	75	s.			6		10		s.	0.354	9.0	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.18	741.2	30.27	768.9	43.9	6.6	79	n.			2	2 c		n.	n.	0.220	5.6	slightly cl'dy	M. André, Director.
Mans, Normal School	29.87	758.7	30.19	766.8	47.7	8.7	85	nw.			1		10			0	0	covered	M. Piboën, Director.
Marseille, Observatory	29.88	758 9	30.15	765.8	53.8	12.1	64	w.			2		2			0	0		M. Stephan, Director.
Montlouis	24.93	633.3	29.78	756.3	39.2	4.0	34	sw.	5.6	2.5			0			0	0		M. Caré for Dr. Fines.
Montpellier, Normal School	30.06	763.5	30.19	766.8	54.3	12.4	70	n.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.42	747.3	30.23	767.8	39.9	4.4	87	w.			1		kn			0.236	6.0	foggy	M. Hasse, Director.
Nantes, Observatory	30.00	701.9	30.16	766.0	50.4	10.2	76	s.			1–2		10 kn; n		sSW.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.12	765.1	30.23	767.9	58.1	14.5	24	ne.	9.4	4.2			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.22	539.0			27.3	— 2.6		w.			1		5		ne.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.15	740.4	30.24	768 2	47.1	8.4	70	sw.			1	1	1	ne.	ne.	0.480	12.2	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.26	641.5			27.0	— 2.8	96	ese.			2	2 ck	0			0.484	12.3	¼ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.16	766.1	30.19	766.9	47.8	8.8	71	ssw.			1		10		sw.	0.94	24.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.89	759.3	30.11	764.9	48.6	9.2	73	w.			1		5		w.	0.035	0.9	cloudy	M. Brotier, Director.
Rodez, Normal School	28.06	712.8	30.26	768.7	41.2	5.1	66	nw.			1		fg			0	0	foggy	M. Seger, Director.
Rouen, Normal School	30.15	765.8	30.20	767.0	49.6	9.8	73	se.			1		10		se.	0	0	covered	M. Mouillot.
Saint Lô					49.3	9.6	71	s.			2		8		sw.	0.020	0.5	very cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	30.06	763.5	30.22	767.7	47.5	8.6	65	s.			2		3		wnw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.57	751.0	30.30	769.5	48.7	9.3	83	se.			1		2	nw.		0	0	slightly cl'dy	M. Bailland, Director.
Tours	30.04	762.9	30.21	767.4	48.6	9.2	73	s.			1		5	sw.	sw.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.71	754.6	30.20	767.1	48.6	9.2	66	sw.			3					0.016	0.4		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.09	764.3	30.24	768.1	55.8	13.2	70	s.	2.0	0.9		0	9 k		wsw.	0.185	4.7		M. Cartier, Director.
German.																			
Ansbach	28.83	732.2	30.36	771.1	34.2	1.2	90	se.			2		10	se.		0	0		Prof. Jnedt.
Bamberg	29.40	746.8	30.25	768.4	35.6	2.0	80	calm			0		10			0	0		Prof. Dr. Hoh.
Berlin	30.14	765.5	30.29	769.4	33.4	0.8	94	sw.			2		10			0	0	foggy	Meteorological Institute.
Breslau	29.81	757.1	30.34	770.7	40.6	4.8	62	se.			2		10			0	0		Royal University Observ'y
Carlsruhe	29.81	757.2	30.28	769.2	46.4	8.0	71	e.			1		0			0	0		Albert Senz.
Cassel	29.49	749.1	30.21	767.2	41.4	5.2	84	s.			1		10	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.89	759.3	30.28	769.0	43.0	6.1	81	ne.			1		8			0	0		Physical Society.
Friedrichshafen	28.80	731.4	30.27	768 9	43.3	6 3	76	ene.			2		3	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.17	766.4	30.26	768.7	41.2	5.1	94	w.			1		3			0	0	dense haze	E. Preller.
Kiel	30.22	767.6	30.24	768.0	41.9	5.5	84	wsw.			2		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.85	758.3	30.30	769.5	38.8	3.8	80	sw.			1		10			0	0	foggy	H. Leppig, Asst.
Magdeburg	30.06	763.6	30.26	768.6	41.4	5.2	90	wnw.			1		7	wnw.		0	0		Dr. Assmann.
Memel	30.37	771.3	30.41	772.5	32.0	0	92	sse.			3	1 c	0						Issermann.
Munich	28.43	722.0	30.30	769.7	31.1	— 0.5	96	ne.			2		10			0	0		Central Station.
Neufahrwasser	30.34	770.7	30.36	771.1	35.2	1.8	69	se.			2		0			0	0		A. Lothes.
Neustadt, Palatinate	29.72	754.9	30.25	768.3	44.6	7.0	87	calm			0		10			0	0		Dicknether.
Stuttgart	29.30	744.1	30.21	767.4	45.5	7.5	76	e.			1		2	e.		0	0		Prof. Dr. Schoder.
Wustrow	30.24	768.0	30.26	768.6	35.8	2.1	85	sse.			2	0	8 s			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.98	761.6	30.37	771.5	51.8	11.0		ne.			0.5		9			0	0	covered	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.03	762.8	30.08	764.0	79.2	26.2	43	sw.	12.0	5.4			5	ssw.		0	0	d. clouds	
Deesa	29.54	750.4	30.02	762.5	80.1	26.7	6	nne.	10.0	4.5			3	wnw.		0	0	d. clouds	
Bombay	29.89	759.3	29.93	760.3	80.3	26.8	63	nnw.	18.0	8.0			0			0	0	blue sky	
Poona, Yarrowda	28.04	712.2	29.86	758.5	89.8	32.1	17	nw.	5.0	2.2			0			0	0	blue sky	
Belgaum	27.36	694.9	29.87	758.7	81.7	27.6	47	wsw.	7.0	3.1			0			0	0	blue sky	
Lahore	29.30	744.2	30.07	763.8	65.6	18.7	28	w.					0			0	0	blue sky	
Roorkee	29.10	739.1	30.03	762.7	65.8	18.8	26	w.	5.0	2.2			0			0	0		
Agra	29.47	748.5	30.05	763.3	69.2	20.7	32	w.	6.0	2.7			0			0	0	blue sky	
Nagpur	28.90	733 9	29.93	760.3	84.5	29.2	21	ne.	3.0	1.3			0			0	0	blue sky	
Jubbulpore	28.65	727.7	30.03	762.6	74.8	23.8	22	n.	4.0	1.8			0			0	0	blue sky	
Lucknow	29.64	752.8	30.03	762.8	66.3	19.1	29	w.	8.0	3.6			0			0	0	blue sky	
Allahabad	29.71	754.6	30.03	762.8	66.8	19.3	41	calm	0	0			0			0	0	blue sky	
Patna	29.82	757.3	30.01	762.2	69.7	20.9	28	nw.	6.6	3.0			0			0	0	blue sky	
Hazaribagh	27.95	709.9	30.02	762.6	63.7	17.6	26	wnw.	9.1	4.1			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.89	759.2	29.98	761.4	80.0	26.7	40	ese.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.95	760.8	29.97	761.3	76.5	24.7	33	nw.	0.5	0.2	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.81	757.1	29.93	760.2	69.4	20.8	43	calm	1.6	0.8	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.87	758.7	29.96	761.0	74.6	23.7	44	w.	2.8	1.2	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.61	752.0	29.95	760.8	68.0	20.0	69	ne.	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Jeypore	28.59	726.2	30.07	763.7	70.7	21.5	38	n.	7.0	3.1	.....	.....	0	.....	.....	0	0	blue sky	
Bellary	28.42	721.9	.....	.....	90.4	32.4	18	ese.	4.	1.8	.....	.....	7	n.	.....	0	0	d. clouds	
Trichinopoly	29.70	754.4	.....	.....	85.8	29.9	42	e.	2.	0.9	.....	.....	0	.....	.....	0	0	blue sky	
ITALIAN.																			
Udine	29.84	757.9	30.26	768.7	53.2	11.8	56	ne.	1.3	0.6	.....	.....	10	.....	.....	0.106	2.7	.....	Prof. Giovanni Clodig.
Milan	29.72	754.9	30.26	768.5	47.1	8.4	90	ne.	4.3	1.9	.....	.....	10	se	.....	1.370	34.8	.....	Prof. Schiapparelli.
Padua	30.13	765.2	30.24	768.1	48.2	9.0	77	nne.	8.7	3.9	.....	.....	10	.....	.....	0.768	19.5	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.31	744.4	30.25	768.3	42.8	6.0	94	ne.	3.8	1.7	.....	.....	10	.....	.....	0.177	4.5	.....	Prof. F. F. Denza.
Genoa	29.94	760.4	30.13	765.4	50.5	10.3	67	n.	0.3	2.8	.....	.....	6	n.	.....	1.063	27.0	.....	Prof. G. M. Garibaldi.
Mondovi	28.28	718.3	30.28	769.2	34.0	1.1	94	w.	.....	.....	2	.....	10	.....	.....	0.177	4.5	.....	Prof. D. C. Bruno.
Pesaro	30.13	765.2	30.18	766.5	47.5	8.6	97	se.	3.1	1.4	.....	.....	10	.....	.....	0.055	1.4	.....	Prof. Luigi Guidi.
Florence	29.87	758.6	30.13	765.2	55.9	13.3	63	s.	.....	.....	2	.....	8	.....	.....	0.270	7.0	.....	Prof. Costantino Pittei.
Leghorn	29.96	760.9	30.04	763.1	54.9	12.7	70	ene.	5.6	2.5	.....	.....	10	sw.	.....	0.122	3.1	.....	Prof. P. Monte.
Rome	29.97	761.1	30.14	765.6	56.5	13.6	62	wsw.	0.7	0.3	.....	.....	7	sw.	.....	0.559	14.2	.....	Prof. P. Tachini.
Lecce	29.98	761.4	30.24	768.0	54.7	12.6	77	s.	22.4	10.0	.....	.....	10	se.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.32	744.6	30.22	767.7	51.1	10.6	75	se.	1.8	0.8	.....	.....	10	s.	.....	0.094	2.4	.....	Prof. D. Conti.
Cagliari	29.98	761.4	30.17	766.4	54.9	12.7	62	nw.	.....	.....	2	.....	4	.....	.....	0.020	0.5	.....	Prof. A. Pacinotti.
Palermo	29.97	761.3	30.23	767.8	55.2	12.9	61	wnw.	1.3	0.6	.....	.....	10	wnw.	.....	0.394	10.0	.....	Prof. G. Cacciatore.
Syracuse	30.16	766.0	30.20	767.1	57.4	14.1	82	wnw.	13.0	5.8	.....	.....	10	w.	.....	0.236	6.0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.62	752 4	30.16	766.0	52.2	11.2	90	se.	6.3	2.8	.....	.....	10	se.	.....	0.236	6.0	.....	Prof. F. Brioschi.
Stelvio	22.17	563.1	.....	.....	23.9	— 4.5	100	se.	.....	.....	2	.....	10	.....	.....	0.953	24.2	misty	Prof. P. F. Denza.
Valdobbia	22.19	563.5	.....	.....	25.3	— 3.7	68	se.	.....	.....	2	.....	10	.....	.....	1.378	35.0	covered.	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.27	768.9	30.30	769.7	30.0	— 1.1	67	nnw.	.....	.....	2	10 ck	0	nw.	.....	0	0	cloudy	H. Hattori.
Awomori	30.26	768.6	30.30	769.6	13.9	—10.1	73	w.	5.1	2.3	.....	0	2 ck	.....	.....	0	0	clear	K. Ogawa.
Hakodate	30.29	769.3	30.30	769.5	27.8	— 2.3	91	n.	17.6	7.9	.....	0	5	.....	n.	0	0	fair	
Hamamatsu	30.21	767.3	30.24	768.0	36.4	2.4	66	calm	.....	.....	0	9 cs	0	.....	.....	0.055	1.4	cloudy	
Kagoshima	30.21	767.3	30.22	767.6	54.9	12.7	67	e.	.....	.....	2	3 ck	5 cs	nw.	.....	1.072	27.2	cloudy	G. Miyanonaga.
Kioto	30.12	765.1	30.31	769.8	34.6	1.4	75	e.	0.7	0.3	.....	10 cs	0	w.	.....	0.175	4.4	cloudy	M. Tojima.
Kochi	30.27	768.8	30.29	769.3	45.0	7.0	70	s.	4.1	1.8	.....	.....	10	.....	.....	0.350	8.9	raining	K. Kusunose.
Miasaka	30.24	768.0	30.27	768.7	47.3	8.5	88	calm	.....	.....	0	3ck;cs	6 s	w.	w.	0.071	1.8	cloudy	H. Masusaki.
Nagasaki, I. M. Obs'y	29.94	760.4	30.14	765.6	51.3	10.7	02	se.	10.8	4.8	.....	.....	10 s	.....	.....	0.505	14.4	overcast	S. Takehayashi.
Niigata	30.33	770.4	30.37	771.4	35.7	2.1	75	n.	4.2	1.9	.....	0	10 ck	.....	n.	0	0	overcast	M. Morita.
Nobiru	30.22	767.6	30.24	768.0	30.5	— 0.8	97	nnw	13.9	6.2	.....	0	0	.....	.....	0	0	clear	H. Midzushima
Numazu	30.23	767.8	30.26	768.6	33.9	1.1	72	nne.	.....	.....	2	3 c	0	.....	.....	0	0	clear	R. Kaneda.
Osaka	30.31	769.8	30.32	770.2	36.2	2.3	81	nne.	1.1	0.4	.....	.....	10 s	.....	.....	0.195	5.0	cloudy	H. Omura.
Sakai	30.30	769.6	30.31	769.9	40.7	4.8	70	e.	.....	.....	4	.....	10 ks	.....	e.	0.720	18.3	cloudy	K. Yamawchi.
Sapporo	.....	.....	.....	.....	25.6	— 3.9	89	n.	21.0	9.4	.....	.....	8	.....	n.	0	0	cloudy	
Tokei Obs'y, Yeddo	30.19	766.9	30.28	769.0	34.4	1.3	75	nnw.	14.6	6.5	.....	4 cs	0	.....	.....	0	0	fair	The Staff.
Wakayama	30.25	768.4	30.31	769.8	39.4	4.1	07	n.	10.9	4.9	.....	10 ck	0	.....	.....	0.034	0.9	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.65	753.1	29.84	757.9	78.5	25.8	84	ene.	9.5	4.2	.....	.....	10n;ks	.....	ene.	0.19	4.8	overcast	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	61	16.1	82	nw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	clear	H. Diaz Pena.
Guanajuato	23.09	601.6	29.91	759.6	55.2	12.9	93	n.	inap.	inap.	.....	0	0	.....	.....	0	0	foggy	Prof. Vicente Fernandez.
Leon	24.29	617.0	30.03	762.7	52.2	11.2	81	ese.	.....	.....	1	2 c	0	.....	.....	0	0	clear	Prof. M. Leal.
Mazatlan	29.67	753.7	29.94	760.3	66.5	19.2	74	e.	1.6	0.8	.....	1 cs	0	.....	.....	0	0	light haze	F. Quijano, C. E.
Mexico, Central Obs'y	23.10	586.8	30.26	768.7	46.4	8.0	71	calm	0	0	.....	0	0	.....	.....	0	0	fine	The Staff.
Morelia	24.36	619.3	30.39	772.0	54.1	12.3	68	se.	.....	.....	2	0	0	.....	.....	0	0	fine	M. Tena, M. D.
Pabellon	23.95	608.3	30.04	763.1	52.2	11.2	67	n.	.....	.....	1	0	0	.....	.....	0	0	clear	
Puebla, Catholic Institute	23.42	594.9	30.36	770.7	43.5	6.4	54	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
Zacatecas	22.45	570.9	30.10	764.6	54.7	12.6	07	sw.	2.7	P.2	.....	1 c	0	w.	.....	0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.15	765.9	30.15	765.9	45.9	7.7	.....	s.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	30.15	765.9	30.21	767.3	44.4	6.9	.....	s.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Hellevoetsluis	30.17	766.2	30.17	766.2	47.1	8.4	71	ssw.	.....	.....	3	.....	.....	.....	.....	0.126	3.2	.....	
Utrecht	30.17	766.4	30.22	767.6	46.6	8.1	77	s.	.....	.....	2	.....	2	.....	.....	0	0	.....	
Sub-series.																			
Batavia, Java	29.88	759.0	.....	.....	74.8	23.8	95	sw.	0	0	.....	.....	10	.....	.....	1.18	30.	lightly cld'y	H. van der Brink
NORWEGIAN.																			
Bergen	29.87	758.8	29.94	760.4	44.2	6.8	57	s.	29	13	.....	.....	3	.....	.....	0	0	.....	Dr. I. P. van der Stok.
Brono	29.97	761.1	30.00	762 1	40.6	4.8	53	sse.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Christiania	30.08	764.1	30.24	768.0	34.7	1.5	90	sw.	4	2	.....	.....	10	.....	.....	0.071	1.8	foggy	
Gjæsvær	29.96	761.0	29.98	761.6	34.3	1.3	.....	se.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	
Lodingen	29.97	761.2	30.02	762.4	34.5	1.4	69	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	29.86	758 5	30.02	762.5	56.8	13.8	78	wnw.	11.2	5.0	.....	.....	8	.....	.....	0.098	2.5	.....	Dr. J. A. Sampaio.
Campo Major	29.35	745.5	30.37	771.4	53.6	12.0	63	se.	1.3	0.6	.....	.....	4	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.29	769.3	30.37	771.5	60.8	16.0	57	se.	2.5	1.1	.....	.....	10	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.02	762.5	30.39	771.8	55.6	13.1	05	ssw.	11.9	5.3	.....	.....	6	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.08	763.9	30.15	765.7	60.1	15.6	53	wnw.	13.0	5.8	.....	.....	3	.....	.....	0.120	3.2	.....	
Saint Paul de Loando	29.69	754.2	29.89	759.2	85.1	29.5	70	w.	1.3	0.6	.....	.....	6	sse.	.....	0	0	.....	
Serra da Estrella	25.46	646.7	30.39	771.9	33.4	0 8	91	wsw.	0	0	.....	.....	7	.....	.....	0.465	11.8	foggy	
RUSSIAN.																			
Akmollinski	29.38	746.2	30.09	779.5	—30.1	—34.5	76	wsw.	7	3	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	30.11?	764.7?	30.13?	765.2?	25.2	— 3.8	91	wsw.	9	4	.....	.....	10	.....	.....	0	0	.....	Capt. Sselwerstow.
Ashurada	30.50	776.2	30.47	773.8	39.4	4.1	85	w.	7	3	.....	.....	10 n	.....	.....	blank	blank	.....	
Astrakhan	31.00	787.3	30.91	785 2	13.1	—10.5	60	e.	16	7	.....	.....	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.69	779.4	30.04	778.2	32.4	0.2	73	ne.	22	10	.....	0	8 k	.....	.....	0	0	.....	
Barnaul	30.14	765.6	30.75	781.0	—26.7	—32.6	78	sw.	2	1	.....	.....	1	.....	.....	0	0	light clouds	Meteorological Obs'y.
Bielosersk	30.26	768.6	30.76	781.4	28.4	— 2.0	86	calm	0	0	.....	.....	10 s	.....	.....	0	0	.....	
Dorpat	30.23	767.8	30.49	774.4	32.0	0.0	56	ssw.	0	4	.....	.....	9 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.30	744.1	30.36	771.2	7.3	—13.7	86	w.	13	6	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Elissawetgrad	30.25	768.3	30.75	781.1	7.2	—13.8	73	e.	9	4	.....	0	0	.....	.....	blank	blank	.....	
Irkutsk	28.68	728.4	30.54	775.6	— 3.5	—19.7	82	calm	.....	.....	0	.....	4	.....	.....	0	0	.....	
Kasalinsk	30.09	764.2	30.26	768.7	.....	.....	76	nne.	9	4	.....	0	0	.....	.....	.....	.....	.....	
Kasan	30.41	772.4	30.71	780.0	11.7	—11.3	59	w.	18	8	.....	0	0	.....	.....	0	0	.....	Observatory.
Kem	30.44	773.2	30.49	774.5	27.3	— 2.0	79	sw.	9	4	.....	9 cs	0	.....	.....	0	0	.....	
Kertch	30.38	771.6	30.40	772.1	23.5	— 4.7	77	ene.	13	6	.....	0	8 n	.....	.....	0	0	.....	Lagorio & Sastyrez.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Kieff	30.04	763.0	30.75	781.1	11.5	—11.4	78	se.	11	5	.....	0	0	.....	.....	0	0	.....	Observatory.
Koslov	30.38	771.6	30.98	786.9	— 3.5	—19.7	85	ssw.	9	4	.....	.....	3 s	.....	.....	0	0	.....	
Libau	30.35	770.9	30.37	771.5	33.6	0.9	64	sse.	7	3	.....	.....	0	.....	.....	0	0	.....	E. Quass.
Lugan	30.56	776.3	30.77	781.6	9.5	—12.5	66	ene.	22	10	.....	.....	2	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	30.34	770.5	30.87	784.2	13.1	—10.5	63	calm	0	0	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	30.55	775.9	30.62	777.8	13.1	—10.5	73	ene.	22	10	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.35	771.0	30.44	773.2	— 8.3	—22.4	69	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Iwanow.
Pekin, China	30.09	764.2	30.24	768 0	34.3	1.3	96	calm	0	0	.....	0	5 k	.....	.....	blank	blank	.....	Physical Observatory.
Petro-Alexandrovsk	30.39	771.8	30.78	781.9	8.8	—12.9	69	n.	7.8	3.5	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	30.43	772.9	30.64	778.3	27.0	— 2.8	87	sw.	11	5	.....	0	5 ck	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	30.10	764.6	30.63	778.1	30.9	— 0.6	44	se.	9	4	.....	0	0	.....	.....	0	0	.....	
Pôtl	30.17	766.4	30.19	766.9	47.8	8.8	92	sw.	4	2	.....	0	5 k	.....	.....	0	0	.....	
St. Petersburg	30.58	776.6	30.59	777.0	29.8	— 1.2	71	se.	13	6	.....	4 ck	0	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.69	703.3	30.31	769.9	27.1	— 2.7	97	w.	3.4	1.5	.....	.....	10 n	.....	.....	.....	.....	snowing	
Semipalatinsk	30.02	762.4	30.80	782.3	—28.1	—33.4	80	w.	4	2	.....	.....	0	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	30.11	764.8	30.35	770.8	32.2	0.1	81	nnw.	20	9	.....	.....	10 n	.....	.....	0.035	0.9	heavy clouds	
Staroi Bykhov	30.31	769.8	30.81	782.6	19.0	— 7.2	46	se.	9	4	.....	0	1 s	.....	.....	0	0	light clouds	
Tashkend	28.63	727.2	30.47	773.8	16.5	— 8.6	92	n.	9	4	.....	.....	10 n	.....	.....	0	0	heavy clouds	Terch, A. M.
Tiflis	29.04	737.5	30.53	775.5	37.0	2.8	77	se.	2	1	.....	.....	10	.....	.....	0.236	6.0	snowing	Physical Observatory.
Verner	27.59	700.7	30.41	772.3	— 2.4	—19.1	85	w.	18	8	.....	.....	10 n	.....	.....	.....	.....	.....	
Viatka	29.88	758.9	30.57	776.5	12.2	—11.0	.....	w.	7	3	.....	.....	10	.....	.....	0.051	1.3	.....	
Vladivostock	30.32	770.0	30.38	771.7	19.8	— 6.8	67	calm	0	0	.....	.....	10 k	.....	.....	0	0	.....	
Warsaw	29.97	761.3	30.42	772.7	35.2	1.8	55	n	11	5	.....	0	2 ks	.....	.....	0	0	light clouds	Astronomical Obs'y.
Wilna	30.11	764.8	30.56	776 2	29.8	— 1.2	46	s.	4	2	.....	.....	2	.....	.....	0	0	light clouds	Berg, Assistant.
Yeniseisk	30.33	770.3	30.63	777.9	—18.4	—28.0	79	calm	0	0	.....	.....	1	.....	.....	0	0	.....	M. O. Marks.
Scottish.																			
Monach Lt	.....	.....	28.93	734.8	46	7.8	92	s.	.....	.....	8	.....	10	.....	.....	0.3	8.	.....	J. Youngclauss.
North Unst	.....	.....	29.69?	754 .1?	.....	.....	.....	s.	.....	.....	6	4	3	s.	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.15	765.7	30.25	768.4	54.0	12.2	57	nw.	4.0	1.8	.....	1 ck	0	.....	.....	0	0	almost clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.16	766.1	30.22	767.6	59.2	15.1	58	s.	2.9	1.3	.....	2	4	sw.	.....	0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.30	693.3	30.36	771.1	44.1	6.7	75	sw.	11.0	4.9	.....	c	7	.....	.....	d	0	cloudy.....	Domingo Martin.
Madrid, Royal Obs'y	28.10	713.8	30.42	772.6	45.0	7.2	74	sw.	7.4	3.3	.....	0	8	.....	.....	0	0	cloudy.....	The Staff.
Murcia, Met. Obs'y	30.18	766.5	30.32	770.1	61.7	16.5	51	wsw.	2.0	0.9	.....	2	5	ese.	.....	0	0	cloudy.....	Olayo Diaz, Director.
Oviedo	29.26	743.3	30.13	765.3	53.6	12.0	64	s.	8.0	3.6	.....	8 k	8 k	n.	ne.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.17	740.9	30.08	764.0	49.8	9.9	93	s.	35.3	15.8	.....	.....	10	.....	.....	0.268	6.8	raining.....	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.93	760.3	29.99	761.7	78.5	25.8	77	ese.	2.2	1.0	.....	2 k	1 ks	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.29	769.4	30.39	772.0	58.8	14.9	49	e.	11.0	4.9	.....	0	3	.....	e.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.98	761.4	30.07	763.7	73.4	23.0	97	se.	4.9	2.2	.....	7 k	5 kn	e.	e.	0.622	15.8	raining.....	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	30.34	770.5	30.37	771.5	27.7	— 2.4	100	sw.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Umea	30.29	769.4	30.34	770.7	31.8	— 0.1	90	sw.	.....	.....	4	.....	10	.....	.....	0.087	2.2	.....	
Hernosand	30.22	767.7	30.28	769.0	33.1	0.6	82	s.	.....	.....	6	.....	10	.....	.....	0	0	.....	
Stockholm	30.14	765.5	30.32	770.0	29.8	— 1.2	92	ese.	.....	.....	4	.....	10	.....	.....	0	0	foggy	
Wisby	30.19	766.9	30.25	768.4	36.3	2.4	82	sse.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.22	767.5	30.30	769.7	31.5	— 0.3	92	ese.	6.0	2.7	.....	.....	10	.....	.....	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	28.78	731.1	30.24	768.2	43.5	6.4	80	n.	.....	.....	3	.....	9	.....	.....	0.228	5.8	covered.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.43	772.8	32.4	0.2	98	n.	20	9.0	.....	.....	10	.....	nw.	0.079	2.0	snowing.....	The Observatory.
Valona	.....	.....	30.29	769.3	56.7	13.7	.....	nw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.06	763.5	48.7	9.3	91	s.	.....	.....	1	.....	10 n	.....	sw.	1.34	34.0	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred L. Kingsbury.
United States.																			
Albany, New York	30.20	767.1	30.29	769.4	12	—11.7	70	s.	2	0.9	.....	.....	10s;fg	.....	.....	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.36	745.7	30.07	763.8	26	— 3.3	64	e.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.01	635.2	30.11	764.8	33	0.6	92	ne.	3	1.3	.....	0	4 s	.....	.....	0.27	6.9	fair.....	W. C. Barnes.
Assinnaboine, Ft., Montana	26.91	683.5	29.95	760.7	—12	—24.4	54	ne.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy.....	B. O. Lenoir.
Atlanta, Georgia	29.04	737.6	30.26	768.6	49.5	9.7	100	e.	7	3.1	.....	.....	10n;fg	.....	.....	0.02	0.5	light rain....	H. C. Smyth.
Atlantic City, New Jersey	30.28	769.1	30.29	769.4	29	— 1.7	77	n.	2	0.9	.....	4 k	5 s	w.	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.10	764.5	30.30	769.6	51	10.6	93	e.	2	0.9	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	John Healy.
Baltimore, Maryland	30.26	768.6	30.31	769.9	37	2.8	72	e.	2	0.9	.....	.....	10n;fg	.....	sw.	0.02	0.5	light rain....	Geo W Felgar.
Barnegat, New Jersey	30.29	769.4	30.31	769.9	30.0	— 1.1	78	ne.	3	1.3	.....	10 cs	0	.....	.....	0	0	cloudy..	G. A. Hill.
Behring Id., Behring Sea	30.32	770.1	30.34	770.6	29.2	— 1.6	.....	se.	17	7.6	.....	.....	10 n	.....	.....	0	0	cloudy.....	Dr. Leonard Steinegar.
Bennett, Fort, Dakota	28.04	712.2	29.77	756.1	34	1.1	88	se.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy.....	A. Pritchard.
Benton, Fort, Montana	26.98	685.3	29.98	761.5	— 7	—21.7	61	calm	0	0	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	S. Wheaton.
Billings, Montana	26.40	670.5	.....	.....	1	—17.2	72	n.	8	3.6	.....	2 c	3 s	w.	n.	0	0	fair.....	T. Gibson.
Bismarck, Dakota	27.84	707.1	29.82	757.4	26	— 3.3	100	n.	4	1.8	.....	.....	10 n	.....	.....	0.01	0.3	light snow..	Cyrus Cramer.
Block Island, Rhode Island	30.26	768.6	30.29	769.4	29	— 1.7	67	w.	13	5.8	.....	4 cs	0	.....	.....	0	0	fair.....	J. T. Elker.
Boise City, Idaho	26.74	679.2	29.70	754.4	30	— 1.1	92	ne.	2	0.9	.....	.....	10 n	.....	.....	0.70	17.8	heavy snow	B. E. Light.
Boston, Massachusetts	30.07	763.8	30.23	767.8	24.0	— 4.4	61	w.	12	5.4	.....	0	0	.....	.....	0	0	clear.....	O. B. Cole.
Brownsville, Texas	29.87	758.7	29.92	760.0	70.0	21.1	94	s.	17	7.6	.....	.....	9 s	.....	s.	0	0	cloudy.....	M. McCarty.
Buffalo, New York	29.35	745.5	30.15	765.8	25	— 3.9	73	ne.	4	1.8	.....	.....	10s;sk	.....	.....	0	0	cloudy..	W. Finn.
Buford, Fort, Dakota	27.78	705 0	29.96	761.0	— 7	—21.7	61	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	F. A. Mellen.
Burlington, Vermont	29.92	760.0	30.23	767.8	17.0	— 8.3	83	s.	3	1.3	.....	.....	10 s	.....	w.	0	0	cloudy.....	D. N. Farnell.
Cairo, Illinois	29.50	749.3	29.92	760.0	58.6	14.8	99	sw.	23	10.3	.....	.....	10 n	.....	sw.	0.67	17.0	light rain....	W. H. Ray.
Cape Henry, Virginia	30.28	769.1	30.30	769.6	41	5.0	82	se.	6	2.7	.....	0	9 ks	.....	w.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.26	768 6	30.29	769 4	36.0	2.2	79	se.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy.....	W. E. Smith.
Cape Mendocino, California	28.99	736.3	29.69	754.1	38	3.3	82	se.	14	6.3	.....	.....	10 ks	.....	se.	0.91	23.1	cloudy..	J. J. McLean.
Cedar Keys, Florida	30.19	766.8	30.21	767.3	67	19.4	90	ne.	11	4.9	.....	0	4 ks	.....	se.	0	0	fair.....	F. W. Mixer.
Champaign, Illinois	28.89	733.8	29.76	755.9	46.0	7.8	83	s.	14	6.3	.....	.....	fg.	.....	.....	1.31	33.3	dense fog....	L. A. Welsh.
Charleston, S. Carolina	30.22	767.6	30.28	769.1	51	10.6	100	ne.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog....	J. H. Smith.
Charlotte, N. Carolina	29.42	747.3	30.30	769.6	45.0	7.2	100	se.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog....	D. O'Donoghue.
Chattanooga, Tennessee	29.33	745.0	30.19	766.8	55.0	12.8	86	s.	9	4.0	.....	.....	10s;fg	.....	s.	0	0	cloudy.....	B. L. Goulding.
Cheyenne, Wyoming	23.74	603.0	29.99	761.7	32.1	0.1	57	w.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	E. McGovern.
Chicago, Illinois	29.02	737.1	29.77	756.1	36.3	2.4	84	e.	7	3.1	.....	.....	10 n	.....	.....	0.56	14.2	light rain....	J. Mitchell.
Chincoteague, Virginia	30.27	768.8	30.29	769.4	37	2.8	82	e.	1	0.4	.....	.....	10ks;s	.....	nw.	0	0	cloudy.....	O. F. Dickens.
Cincinnati, Ohio	29.24	742.7	29.93	760.2	48	8.9	100	se.	4	1.8	.....	.....	10 n	.....	.....	0.16	4.1	light rain....	R. B. Watkins.
Cleveland, Ohio	29.22	742.2	30.01	762.2	33.8	1.0	88	e.	4	1.8	.....	.....	10 n	.....	.....	0.28	7.1	light rain....	J. B. Newlin.
Coleman City, Texas	28.11	714.0	29.99	761.7	55	12.8	100	w.	4	1.8	.....	0	0 s	.....	.....	0.01	0.3	fair.....	L. Dorman.
Columbus, Ohio	29.06	738.1	29.96	761.0	38	3.3	89	se.	9	4.0	.....	.....	10 n	.....	.....	0.46	11.7	light rain....	D. Cuthbertson.
Concho, Fort, Texas	27.98	710.7	30.00	762.0	57.8	14.3	83	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	J. McGlone.
Davenport, Iowa	28.97	735.8	29.67	753.6	36	2.2	79	e.	8	3.6	.....	.....	10 n	.....	.....	0.36	9.1	light rain....	R. R. Martin.
Davis, Fort, Texas	25 06	636.5	30.02	762.5	43	6.1	76	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	J. Williams.
Dayton, Washington T'y	27.83	706.9	29.64	752.8	23	— 5.0	73	n.	5	2.2	.....	0	0	.....	.....	0.22	5.6	clear.....	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	24.96	634.0	29.88	758.9	35	1.7	82	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.27	768.8	30.29	769.4	34	1.1	72	se.	3	1.3	.....	10 cs	0	.....	.....	0	0	cloudy	T. S. Townsend.
Denison, Texas	29.96	738.1	29.90	759.4	66.0	18.9	90	sw.	16	7.2	.....	.....	9 s	.....	sw.	0.02	0.5	cloudy	J. W. Byram.
Denver, Colorado	24.45	621.0	29.97	761.2	28.5	— 1.9	75	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	28.68	728.5	29.65	753.1	37	2.8	82	se.	1	0.4	.....	.....	10 s	.....	se.	0.43	10.9	threatening	F. W. Conrad.
Detroit, Michigan	29.23	742.4	29.98	761.5	33.0	0.6	88	e.	19	8.5	.....	.....	10 n	.....	.....	0.23	5.8	light rain	E. R. Brace.
Dodge City, Kansas	.....	.....	.....	.....	37	2.8	100	w.	10	4.5	.....	hz.	0	.....	.....	1.10	27.9	dense haze	V. P. Temple.
Dubuque, Iowa	28.94	735.1	29.70	754.4	35.2	1.8	89	calm	0	0	.....	.....	10 n	.....	.....	0.13	3.3	light rain	J. Harvey Smith.
Duluth, Minnesota	29.11	739.4	29.92	760.0	28	— 2.2	88	ne.	28	12.5	.....	.....	10 s	.....	ne.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.10	739.1	29.94	760.5	63.2	17.3	90	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	24.88	631.9	29.78	756.4	29	— 1.7	80	sw.	30	13.4	.....	0	6 ks	.....	s.	0.84	21.3	fair	J. M. Clifford.
Eastport, Maine	30.00	762.0	30.07	763.8	21.0	— 6.1	70	sw.	8	3.6	.....	2 c	0	w.	.....	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.00	685.8	29.90	759.4	45	7.2	71	w.	20	8.9	.....	0	0	.....	.....	0.15	3.8	clear	W. J. Cundall.
El Paso, Texas	26.26	667.0	30.14	765.5	51.0	10.6	66	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.33	745.0	30.10	764.5	34	1.1	72	e.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	W. Wood.
Escanaba, Michigan	29.28	743.7	30.00	762.0	23.5	— 4.7	82	ne.	4	1.8	.....	.....	10 s	.....	e.	0	0	cloudy	George Heathcote.
Fredericksburg, Texas	28.17	715.5	29.97	761.2	65	18.3	90	s.	12	5.4	.....	.....	10 ks	.....	.....	0	0	cloudy	Frank Halwegler.
Galveston, Texas	29.96	761.0	30.01	762.2	65	18.3	100	s.	12	5.4	.....	.....	9 k	.....	sw.	0.02	0.5	cloudy	E. O'C. Macluernay
Grand Haven, Michigan	29.15	740.4	29.86	758.4	33.0	0.6	88	ne.	13	5.8	.....	.....	10 n	.....	e.	0.01	0.3	light rain	J. E. Mueller.
Grant, Fort, Arizona	25.20	640.1	30.06	763.5	40	4.4	32	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	Robert G. Lord.
Hatteras, North Carolina	30.27	768.8	30.29	769.4	45	7.2	93	ne.	16	7.2	.....	.....	10 s	.....	ne.	0.19	4.8	cloudy	R. M. Crawford.
Helena, Montana	25.63	651.0	30.03	762.7	14	—10.0	83	sw.	3	1.3	.....	.....	10 s	.....	.....	0.25	6.3	cloudy	N. C. Smith.
Henrietta, Texas	28.86	733.0	29.91	759.7	55	12.8	93	s.	.....	.....	.....	0	2 s	.....	.....	0.04	1.0	clear	J. P. Sherry.
Huron, Dakota	28.26	717.8	29.78	756.4	36	2.2	82	se.	1	0.4	.....	.....	10 n	.....	.....	0.12	3.0	light rain	S. W. Glenn.
Indianapolis, Indiana	28.98	736.1	29.83	757.7	48	8.9	86	s.	7	3.1	.....	.....	10n;fg	.....	s.	0.62	15.7	light rain	C. F. R. Wappenhans.
Indianola, Texas	29.92	760.0	29.95	760.7	69.0	20.6	93	s.	10	4.5	.....	0	8 k	.....	s.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	28.68	728.5	29.92	760.0	58	14.4	54	s.	5	2.2	.....	0	8 s	.....	.....	0.03	0.8	cloudy	D. J. Carr.
Jacksonville, Florida	30.20	767.1	30.25	768.3	58	14.4	93	ne.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. W. Smith.
Keogh, Fort, Montana	27 24	691.9	29.92	760.0	— 3	—19.4	68	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Keokuk, Iowa	28.96	735.6	29.66	753.4	41.0	5.0	92	s.	8	3.6	.....	.....	10 s	.....	s.	0.51	13.0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.10	764.5	30.12	765.0	74.0	23.3	84	e.	9	4.0	.....	0	6 ks	.....	e.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.28	769.1	30.30	769.6	43	6.1	88	ne.	4	1.8	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.12	739.6	30.20	767.1	48	8.9	96	ne.	5	2.2	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	28.88	733.5	29.72	754.9	33	0.6	68	se.	12	5.4	.....	.....	10 s	.....	.....	inap	inap.	cloudy	S. C. Emery.
Leavenworth, Kansas	28.79	731.3	29.74	755.4	44	6.7	93	calm	0	0	.....	.....	10 s	.....	.....	0.91	23.1	cloudy	A. W. Browns.
Lewiston, Idaho	28.80	731.5	29.67	753.6	28.0	— 2.2	86	e.	2	0.9	.....	0	0	.....	.....	0.13	3.3	clear	W. Bell.
Little Rock, Arkansas	29.63	752.6	29.96	761.0	64	17.8	93	s.	16	7.2	.....	.....	10 s	.....	s.	0.10	2.5	cloudy	W. U. Simons.
Los Angeles, California	29.70	754.4	30.10	764.5	47	8.3	93	se.	5	2.2	.....	.....	10 n	.....	se.	0.29	7.4	light rain	T. S. Collins.
Louisville, Kentucky	29.28	743.7	29.87	758.7	59	15.0	81	s.	14	6.3	.....	.....	10 n	.....	s.	0.23	5.8	light rain	L. M Dey.
Lynchburg, Virginia	29.55	750.6	30.27	768.8	43.2	6.2	63	e.	1	0.4	.....	.....	10 s	.....	se.	0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.36	745.7	30.06	763.5	21.0	— 6.1	70	e.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.24	768.1	30.25	768.3	44.0	6.7	93	n.	10	4.5	.....	.....	10 s	.....	n.	0.27	6.9	cloudy	William Daly.
Madison, Wisconsin	28.67	728.2	29.76	755.9	32	0.0	88	se.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	O. A. Shaw.
Maginnis, Fort, Montana	25.12	638.0	29.66	753.4	— 3	—19.4	36	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. Burke.
McKavett, Fort, Texas	27.75	704 8	30.13	765.3	61	16.1	84	sw.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.20	741 7	29.98	761.5	20	— 6.7	70	n.	2	0.9	.....	.....	hz.	.....	.....	0	0	dense haze	J. Gilligan.
Memphis, Tennessee	29.63	752.6	29.98	761.5	59	15.0	100	s.	10	4.5	.....	.....	10 n	.....	.....	0.39	9.9	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.03	737.3	29.83	757.7	32	0.0	88	e	18	8 0	.....	.....	10 n	.....	.....	0.01	0.3	light rain	W. Line.
Missoula, Fort, Montana	26.26	667.0	29.69	754.1	21	— 6.1	61	n.	4	1.8	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	I. H. Young.
Mobile, Alabama	30.10	764.5	30.14	765.5	65	18.3	93	se.	3	1.3	.....	.....	10 s	.....	se.	0.03	0.8	cloudy	C. A. Read.
Montgomery, Alabama	29.93	760.2	30.17	766.3	62	16.7	97	se.	4	1.8	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	J. B. McLaughlin
Moorhead, Minnesota	28.73	729.7	29.83	757.7	28	— 2.2	100	se.	12	5.4	.....	.....	10 s	.....	se.	0.02	0.5	cloudy	H. Bessant.
Morgantown, W. Virginia	28.99	736.3	30.00	763.5	39.5	4.2	71	n.	1	0.4	.....	.....	10 n	.....	w.	0.35	8.9	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.45	595.6	30.07	763.8	6.0	—14.4	69	nw.	90	40.2	.....	hz.	0	.....	.....	0	0	clear	S. W. Beall.
Nashville, Tennessee	29.40	746.7	30.02	762.5	61.0	16.1	93	s.	16	7.2	.....	.....	10 ks	.....	s.	0.10	2.5	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.17	766.3	30.29	769.4	16	— 8.9	83	calm	0	0	.....	.....	fg.	.....	.....	0	0	light fog	J. H. Sherman.
New London, Connecticut	30.27	768.8	30.32	770.1	25	— 3.9	73	w	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.10	764.5	68.0	20.0	93	se.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	L. Dunne.
Newport, Rhode Island	30.23	767.8	30.28	769.1	27.5	— 2.5	72	sw.	10	4.5	.....	.....	hz.	.....	.....	0	0	dense haze	W. McGillivray.
New York, New York	30.14	765.5	30.32	770.1	26	— 3.3	100	s.	1	0.4	.....	7 cs;k	hz.	nw.	.....	0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	30.29	769.4	30.32	770.1	43	6.1	74	e.	1	0.4	.....	.....	.....	.....	.....	0	0	fair	Wm. Davis.
North Platte, Nebraska	26 74	679.2	29.84	757.9	30.6	— 0.8	78	sw.	8	3.6	.....	0	0	.....	.....	0.35	8.9	clear	E. F. Brady.
Olympia, Washington T'y.	29.58	751.3	29.62	752.3	31.0	— 0.6	88	calm	0	0	.....	.....	10 n	.....	.....	0.19	4.8	light snow	J. Dascomb.
Omaha, Nebraska	28.46	722.9	29.73	755.1	37.7	3.2	80	w.	6	2.7	.....	.....	10 s	.....	w.	0.57	14.5	cloudy	A. Pollak.
Oogiamie, Alaska	29.96	761.0	29.98	761.5	—16.5	—26.9	.....	nw.	5	2.2	.....	0	0	.....	.....	0.01	0.3	clear	P. H. Ray.
Oswego, New York	29.88	758.9	30.23	767.8	19.0	— 7.2	53	s.	7	3.1	.....	10 cs	0	.....	.....	0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.43	747.5	30.01	762.2	68.0	20.0	81	s.	15	6.7	.....	0	9 ks	.....	sw.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.14	765.5	30.16	766.1	66.0	18.9	93	se.	1	0.4	.....	0	5 s	.....	.....	0	0	fair	M. McGauran.
Philadelphia, Pa	30.20	767.1	30.31	769.9	33	0.6	68	calm	0	0	.....	.....	10 s	.....	sw.	0	0	cloudy	E. M. Mattison.
Pike's Peak, Colorado	17.45	443.2	30.17	766.3	4	—15.6	83	w.	.....	.....	.....	0	0	1 s	.....	inap.	inap.	clear	H. Hall.
Pioche, Nevada	23.79	604.3	29.95	760.7	31.2	— 0.4	95	s.	19	8.5	.....	.....	10 ks	.....	s.	0.09	2.3	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.25	742.9	30.11	764.8	37.0	2.8	89	n.	2	0.9	.....	.....	10 n	.....	n.	0.10	2.5	light rain	W. A. Reid.
Poplar River, Montana	27.54	699.5	29.90	759.4	.....	.....	.....	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.12	765 0	30.13	765.3	60.0	15.6	96	e.	6	2.7	.....	0	fg.	.....	.....	0	0	clear	H. B. Boyer.
Port Huron, Michigan	29.26	743.2	30.00	762 0	25.6	— 3.6	100	ne.	4	1.8	.....	.....	10 n	.....	.....	0.04	1.0	sleeting	W. O. Bailey.
Portland, Maine	30.10	764.5	30.15	765.8	19.0	— 7.2	70	nw.	4	1.8	.....	6 c	hz.	nw.	.....	0	0	fair	W. W. Eichelberger
Portland, Oregon	29.50	749.3	29.57	751.1	34.2	1.2	89	calm	0	0	.....	3 c	3 s	.....	s.	0.46	11.7	fair	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	46	7.8	93	ne.	17	7.6	.....	.....	10 s	.....	ne.	0.13	3.3	cloudy	F. S. Coburn.
Prescott, Arizona	24.70	627.4	30.06	763.5	39.0	3.9	70	s.	4	1.8	.....	0	4 s	.....	.....	0.07	1.8	fair	Jas Cassidy.
Provincetown, Mass.	30.21	767.3	30.24	768.1	26	— 3.3	64	sw.	8	3.6	.....	8 cs	hz.	.....	.....	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.14	765.5	30.15	765.8	68.5	20.3	93	e	8	3.6	.....	.....	10 s	.....	e.	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.33	745.0	29.70	754.4	41	5.0	82	s.	5	2.2	.....	0	6 ks	.....	s.	0	0	fair	J. R. Williams.
Rochester, New York	29.50	749.3	30.21	767.3	20	— 6.7	84	sw.	7	3.1	.....	.....	10s;sk	.....	.....	0	0	cloudy	E. W. McGann
Roseburg, Oregon	29.03	737.3	29.60	751.8	33.3	0.7	93	calm	0	0	.....	.....	10 n	.....	.....	0.30	7.6	light snow	J. J. Nanry.
Sacramento, California	29.71	754.6	29.79	756.7	45.4	7.4	93	s.	11	4.9	.....	0	3 s	.....	se.	0.96	24.4	clear	J. A. Barwick
St. Louis, Missouri	29.11	739.4	29.76	755.9	49.5	9.7	98	s.	13	5.8	.....	.....	9 s	.....	sw.	1.32	33.5	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.82	757.4	29.86	758.4	17	— 8.3	100	w.	12	5.4	.....	.....	10 s	.....	.....	inap.	inap.	threatening	A. P. Leavitt
St. Paul, Minnesota	28.83	732.3	29.77	756.1	30.0	— 1.1	84	e.	10	4.5	.....	.....	10 s	.....	e.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.82	732.0	29.79	756.7	22.0	— 5.6	100	se.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	O. B Dilley.
Salt Lake City, Utah	25.34	643.6	29.90	759.4	41	5.0	59	se.	11	4.9	.....	0	8 s	.....	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.22	742.2	29.94	760 5	66.5	19.2	93	se.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	T. J. Kenan.
San Diego, California	30.02	762.5	30.10	764.5	49.3	9.6	85	nw.	4	1.8	.....	0	0	.....	.....	0.13	3.3	clear	A. C. Dobbins.
Sandusky, Ohio	29.20	741.7	29.92	760.0	34	1.1	88	se.	10	7.2	.....	.....	10 n	.....	.....	0.76	19.3	light rain	M. H. Perry.
Sandy Hook, New Jersey	30.29	769.4	30.32	770.1	27.0	— 2.8	88	w.	10	4.5	.....	.....	10 s	.....	w.	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.76	755.9	29.83	757.7	48	8.9	81	sw.	11	4.9	.....	.....	10 n	.....	sw.	0.71	18.0	light rain	N. Gorom.
Santa Fé, New Mexico	23.14	587.7	30.22	767.6	30	— 1.1	64	nw.	10	4.5	.....	0	0	.....	.....	0.25	6.3	clear	H. U. Jones.
Savannah, Georgia	30.19	766.8	30.28	769.1	54.5	12.5	85	n.	6	2.7	.....	.....	fg.	.....	.....	0.21	5.3	dense fog	H. W. Ford.
Shaw, Fort, Montana	25.95	659.1	29.80	756.9	— 7	—21.7	61	ne.	5	2.2	.....	0	4 s	.....	.....	0.05	1.3	fair	A. L. Mathews.
Shreveport, Louisiana	29.73	755.1	29.98	761.5	64	17.8	93	s.	5	2.2	.....	.....	10 s	.....	s.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.59	726.2	29.90	759.4	47.5	8.6	82	sw.	4	1.8	.....	3 c	0	sw.	.....	0.12	3.0	clear	W. M. Mattingly.
Silver City, New Mexico	24.23	615.4	30.08	764.0	33.0	0.6	88	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Sitka, Alaska	29.78	756.4	29.85	758.2	19	— 7.2	76	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.34	745 2	29.84	757.9	64.0	17.8	90	s.	8	3.6	.....	.....	10 s	.....	w.	0.04	1.0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.25	768.3	30.29	769.4	45	7.2	100	n.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog	O. Parker.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	27.57	700.3	29.70	754.4	23.8	— 4.6	89	sw.	1	0.4	.....	0	0	.....	.....	0.18	4.6	clear.....	H. Clifford.
Springfield, Illinois.....	29.02	737.1	29.75	755.6	43	6.1	100	s.	10	4.5	.....	.....	fg.	.....	.....	1.54	39.1	dense fog. ..	T. B. Jennings.
Springfield, Missouri.....	28.30	718.8	29.81	757.2	55.5	13.1	90	s.	12	5.4	.....	0	5 ks	.....	sw.	1.35	34.3	threatening.	J. H. Bryce.
Starkville, Miss.....	29.59	751.6	30.09	764.3	62	16.7	93	s.	13	5.8	.....	.....	10 s	.....	s.	0.02	0.5	threatening	C. Dill.
Stevenson, Fort, Dakota.....	27.85	707.4	29.87	758.7	9	—12.8	80	se.	12	5.4	.....	.....	10 s	.....	.....	0.06	1.5	cloudy.....	A. Schneider.
Stockton, Fort, Texas	26.94	684.3	30.06	763.5	48	8.9	46	sw.	6	2.7	.....	2 c	0	sw.	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass.....	30.16	766.1	30.22	767.6	21.5	— 5.8	78	w.	16	7.2	.....	0	0	.....	.....	0	0	clear.....	G. Liebmann.
Thomas , Camp, Arizona.....	27.27	692.6	30.10	764.5	37	2.8	92	se.	.....	.....	1	2 ck	0	.....	.....	0.12	3.0	clear.....	J. T. Fitzgerald.
Toledo, Ohio.....	29.20	741.7	29.94	760.5	34	1.1	88	e.	10	4.5	.....	.....	10 n	.....	.....	0.56	14.2	light rain.....	A. Buell.
Tucson, Arizona.....	29.57	751.1	30.05	763.3	43	6.1	83	s.	3	1.3	.....	1 k	0	.....	.....	0	0	clear.....	J. L. Whiteside.
Umatilla, Oregon.....	29.27	743.4	29.65	753.1	13	—10.6	80	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	J. Daly.
Verde, Fort, Arizona.....	.....	.....	.....	.....	42.1	5.6	68	w.	.....	.....	1	0	5 s	.....	w.	0.21	5.3	fair.....	O. L. Pease.
Vicksburg, Mississippi	29.80	756.9	30.07	763.8	63.4	17.4	93	se.	10	4.5	.....	2 ck	0	sw.	.....	0	0	clear.....	James Kenealy.
Visalia, California.....	29.57	751.1	29.95	760.7	49.3	9.6	74	se.	11	4.9	.....	0	5 s	.....	.....	0.08	2.0	fair.....	O. D. Stewart
Washakie, Fort, Wyoming.	24.09	611.9	29.85	758.2	2.9	—16.2	87	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	T. M. Ambler.
Washington, D. C.....	30.18	766.6	30.30	769.6	34.0	1.1	82	calm	0	0	.....	.....	10 s	.....	sw.	inap.	inap.	threatening.	B. M. Parsell.
West Las Animas, Colorado	25.75	654 0	29.88	758.9	32	0.0	76	w.	12	5.4	.....	0	0	.....	.....	0.17	4.3	clear.....	B. F. Hough.
Williamsport, Pa.....	29.63	752.6	30.26	768.6	20.8	— 6.2	84	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy.....	Samuel A. Haney.
Wilmington, N. Carolina...	30.23	767.8	30.29	769.4	45	7.2	93	ne.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy.....	J. Grover.
Winnemucca, Nevada.....	25.09	637.3	29.61	752.1	34.5	1.4	76	sw.	28	12.5	.....	.....	10 s	.....	sw.	0.05	1.3	threatening	J. H. Atfield.
Yankton, Dakota.....	28.30	718.8	29.72	754.9	30	— 1.1	68	calm	0	0	.....	0	0	.....	.....	0.26	6.6	clear.....	W. S. Delano.
Yuma, Arizona.....	29.83	757.7	29.98	761.5	52.6	11.4	66	ne.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear.....	
Sub-series.																			
Bogota, U. S. Columbia....	22 04	559.8	.....	.....	54.0	12.2	71	calm	0	0	.....	.....	10 s	.....	sw.	0	0	cloudy.....	Joaquin Gomez.
Kingston, Jamaica, W. I....	30.03	762.7	30.04	763.0	70	21.1	84	n.	1	0.4	.....	0	1 s	.....	e.	0	0	clear.....	Robert Johnston.
Paramaribo, S. A.....	30.01	762.2	30.01	762.2	76	24.4	91	e.	.....	.....	3	.....	8 ks	.....	e.	0.170	4.3	cloudy.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.30	744.2	29.85	758.2	82	27.8	85	calm	.....	.....	0	5 c	5 ks	calm	calm	0	0	cloudy.....	Francisco J. Cisneros.
Rivas, Nicaragua, C. A....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.82	757.4	29.88	758.9	28	— 2.2	77	calm	.....	.....	0	0	7 ks	.....	.....	0	0	cloudy.....	W. J. Fisher.
St. Thomas, W. I.....	30.00	762.0	30.13	765.3	74	23.3	85	e.	.....	.....	.....	3 k	4 nk	e.	e.	0.18	4.6	fair.....	Aug. Wallace.
Havana, Cuba.....	30.00	762.0	30.06	763.5	70.2	21.2	90	se.	7	3.1	.....	1 cs	1 k	.....	e.	0	0	clear.....	Benito Vines, S. J.
York Factory, B. A	30.12	765.0	30.19	766.8	—32.0	—35.6	.....	s.	10	4.5	.....	2 c	1 s	s.	s.	0	0	fair.....	Fortesque & Wood.

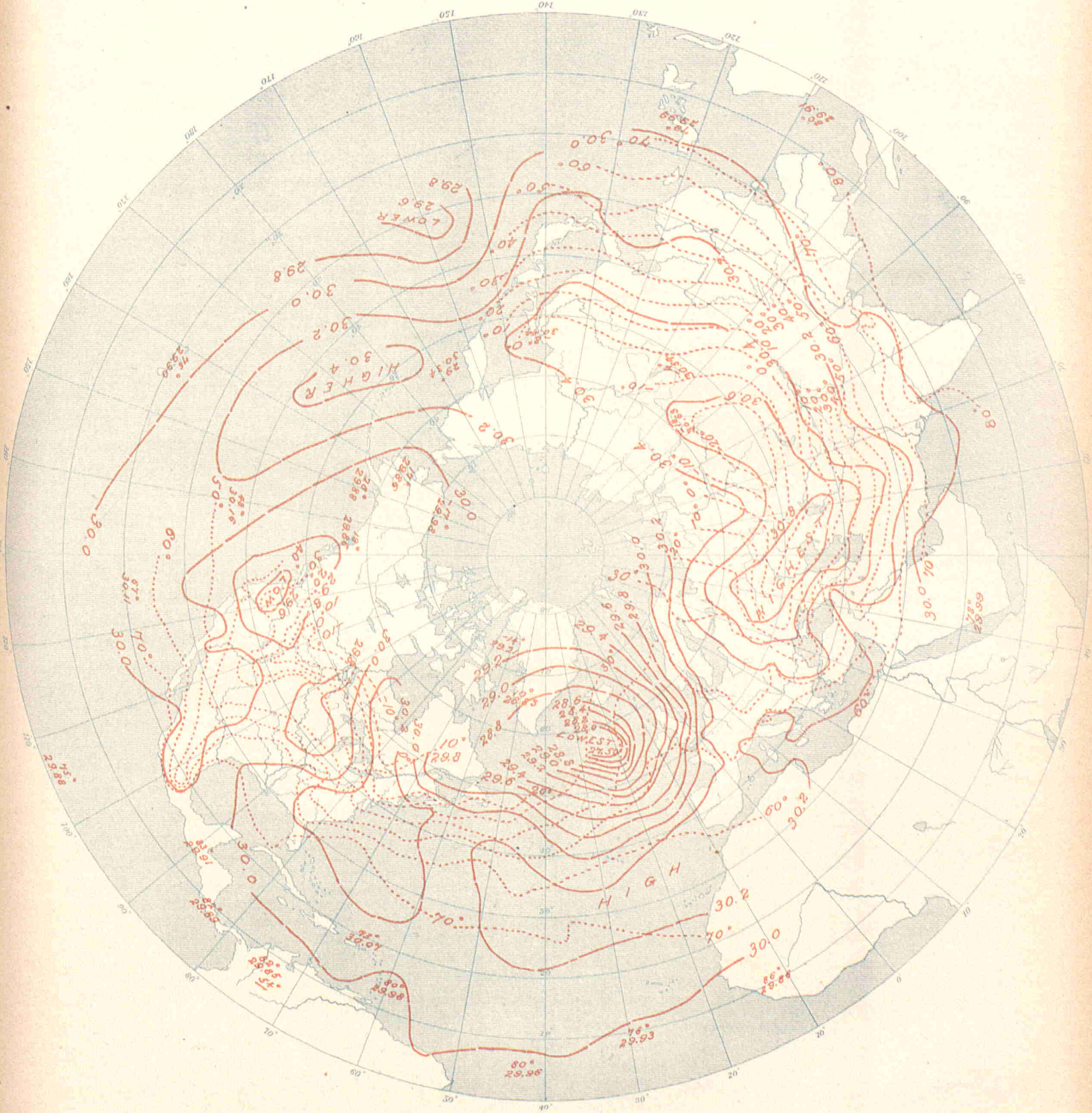
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level Inch.	Barometer reduced to sea-level Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Sea-swell. Character.	Sea-swell. Direction from	Weather.
District No 1—North Atlantic.																		
H. M. Dock-Yard, Bermuda, W. I.....	30.24	768.1	64.5	18.1	76	nw.	.....	.....	1-2	.....	4	wnw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Fawn, N. 19° 15′, W. 34° 04′	30.11	764.8	71.5	21.9	100	nne.	.....	.....	3-4	.....	9	.....	.....	.....	.....	3	ne.	d. clouds.
H. M. S. Iron Duke, N. 35° 58′, W. 5° 33′	30.38	771.6	59	15.0	70	ne.	.....	.....	3-4	.....	3	nne.	.....	.....	.....	4	ene.	d. clouds.
H. M. S. Monarch, Port Said, Egypt.....	30.15	765.8	61	16.1	77	w.	.....	.....	3-5	.....	3	.....	.....	.....	.....	.....	.....	squally.
H. M. S. Minotaur, Arosa Bay, Spain	30.12	765.0	53.5	11.9	86	ssw.	.....	.....	6-7	.....	10	ssw.	.....	.....	.....	.....	.....	showery.
H. M. S. Tyne, N 7° 53′, W. 13° 57′	29.90	759.4	81	27.2	87	wnw.	.....	.....	2-3	.....	5	wnw.	.....	.....	.....	.....	.....	misty.
U. S. Navy Yard, Portsmouth, N. H*.....	30.17	766.3	19	— 7.2	?	wnw.	8	3.6	.....	.....	2	.....	.....	0	0	.....	.....	hazy.
U. S. S. Enterprise, N. 5° 25′, W. 24° 27′*.....	29.89	759.2	79	26.1	82	e.	.....	.....	2	.....	8	.....	ne.	.....	.....	mod.	ne.	cloudy.
U. S. S. Kearsarge, Cartagena. U. S. C.....	29.81	757.2	77	25.0	95	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Lancaster, Corunna, Spain.....	30.04	763.0	56	13.3	93	ssw.	.....	.....	6	.....	10	.....	sw.	.....	.....	mod.	sw.	light rain.
U. S. S. Nipsic, N. 24° 13′ W. 63° 34′.....	30.24	768.1	74	23.3	72	ne.	.....	.....	5	.....	8	.....	ne.	.....	.....	long	ne.	fair.
U. S. S. Quinnebaug, N. 36° 50′ W. 7° 00′.....	30.44	773.2	57	13.9	81	wnw.	.....	.....	2	.....	5?	.....	wnw.	.....	.....	sm'h	.....	cloudy?
U. S. S. St. Louis, League Island, Pa.....	30.37	771.4	26	— 3.3	88	ene.	1	0.4	.....	.....	10	.....	.....	0	0	.....	.....	cloudy.
U. S. S. Tennessee, St. Croix, W. I*.....	30.08	764.0	78	25.0	90	e.	5	2.2	.....	.....	2	.....	.....	0.2	5.	.....	.....	clear.
U. S. S. Vandalia, N. 18° 42′, W. 74° 38′ *.....	30.04	763.0	78	25.6	82	sse.	.....	.....	2	.....	2	.....	calm	.....	.....	sm'h	.....	clear.
U. S. S. Yantic, Vera Cruz, Mexico.....	29.94	760.5	77	25.0	86	ese.	.....	.....	3	.....	2	.....	.....	.....	.....	.....	.....	clear.
S. S. British Prince, N. 42° 02′ W. 63° 30′.....	30.25	768.3	32	0.0	.....	wsw.	.....	.....	.....	.....	3	.....	wsw.	0	0	sm'h	.....	clear.
S. S Illinois, N. 41° 45′, W. 52° 45′.....	30.16	766.1	41	5.0	91	e.	.....	.....	4	.....	9	.....	ne.	.....	.....	sm'h	ne.	cloudy
S. S. Indiana, N. 50° 12′, W. 16° 47′.....	.....	.....	47	8.3	77	sw.	.....	.....	8	.....	8	.....	sw.	rain	rain	h'vy	sw.	squally.
S. S. Lord Clive, off Fastnet, Ireland	29.73	755.1	.....	.....	.....	wsw.	.....	.....	10	.....	7	.....	wsw.	10 h'r	10 h'r	high	wsw.	
S. S. Lord Gough, N. 45° 56′, W. 48° 34′	30.05	763.3	18	— 7.8	.....	nw.	.....	.....	5	.....	10	.....	nw.	4 h'r	4 h'r	mod.	nw.	gloomy.
S. S. Ohio, N. 48° 56′, W. 30° 03′†	29.14	740.1	35	1.7	100	nw.	.....	.....	8	.....	9	.....	nw.	.....	.....	h'vy	nw.	squally.
S. S. Pennsylvania, Liverpool, Eng †.....	29.52	749.8	47	8.3	100	sse.	.....	.....	6	.....	5	.....	sse.	13 h'r	13 h'r	sm'h	.....	cloudy.
S. S. Circassian, Halifax, N. S.*.....	30.09	764.3	19	— 7.2	.....	nnw.	.....	.....	1	.....	7	.....	nw.	0	0	.....	.....	d. clouds.
S. S. Nova Scotian, N. 51° 05′, W. 30° 10′..	29.03	737.3	34	1.1	.....	w.	.....	.....	5	.....	10	.....	wnw.	.....	.....	high	w.	cloudy.
S. S. Manitoban, N. 43° 15′, W. 58° 28′	30.24	768.1	30	— 1.1	.....	nw.	.....	.....	4	.....	3	.....	nw.	0	0	h'vy	nnw.	fair.
S. S. Scandinavian, N. 54° 45′, W. 16° 31′.....	28.42	721.9	42	5.6	.....	s.	.....	.....	10	.....	10	.....	s.	shr's	shr's	high	s.	squally.
S. S. Jason, N. 49° 08′ W. 10° 12′.....	29.78	756.5	50.0	10.0	.....	w.	.....	.....	6	.....	7 k	.....	.....	.....	.....	8	ww.	gloomy.
S. S. Stella, N. 47° 26′, W. 26° 02′	29.29	744.0	37.4	3	.....	w.	.....	.....	9	.....	7	.....	wsw.	11 h'r	11 h'r	7	w.	squally.
S. S. Ailsa, Port Limon, Costa Rica†.....	30.02	762.5	79	26.1	?	ene.	.....	.....	2	.....	10	.....	ene.	0	0	sm'h	ene.	cloudy.
S. S. Anchoria, N. 55° 16′, W. 13° 32′ †.....	28.75	730.2	.....	.....	.....	wsw.	.....	.....	10	.....	5	.....	wsw.	shr's	shr's	h'vy	s.	
S. S. Assyria, N. 32° 42′, W. 45° 03′.....	30.24	768.1	59	15.0	100	ne.	.....	.....	3	.....	10	.....	ne.	2 h'r	2 h'r	long	nw.	overcast.
S. S. Bolivia, N. 42° 15′, W. 50° 59′.....	30.29	769.4	32	0.0	.....	ene.	.....	.....	2	.....	2	.....	ene.	.....	.....	sm'h	ene.	clear.
S. S. Dorian, N. 42° 30′, W. 70° 00′.....	30.21	767.3	32	0.0	.....	w.	.....	.....	5	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Marathon, N. 50° 34′ W. 6° 48′.....	29.66	753.4	56	13.3	.....	sww.	.....	.....	5	.....	7	.....	ssw.	8 h'r	8 h'r	high	ssw.	cloudy.
S. S. Pavonia, N. 42° 35′, W. 53° 31′.....	30.13	765.3	34	1.1	79	w.	.....	.....	3	.....	10	.....	snow	snow	snow	sl't	wnw.	cloudy.
S. S. Pereire, N. 46° 45′, W. 46° 30 ′†	29.74	755.3	33.8	1	.....	w.	.....	.....	8	.....	9	.....	wsw.	snow	snow	h'vy	w.	sprinkling.
S. S. Ville de Marseilles, N. 20° 36′, W. 82° 52′	.....	.....	76	24.4	.....	e.	.....	.....	6	.....	5	.....	e.	0	0	long	e.	fair.
S. S. Abyssinia, N. 45° 10′, W. 44° 00′	29.98	761.5	38	3.3	90	wnw.	.....	.....	6	.....	10	.....	wnw.	3 h'r	3 h'r	r'gh	nw.	squally.
S. S. Wyoming, N. 50° 42′, W. 21° 14′.....	28.36	720.3	41	5.0	.....	w.	.....	.....	10	.....	6	.....	wnw.	4 h'r	4 h'r	h'vy	w.	
S. S. Bohemia, N. 46° 34′ W. 33° 08′ †.....	29.39	746.5	.....	.....	.....	nw.	.....	.....	7-9	.....	6 k	.....	nw.	6 h'r	6 h'r	h'vy	nw.	squally.
S. S. Silesia, N. 43° 54′, W. 52° 53′†.....	30.14	765.5	.....	.....	.....	sw.	.....	.....	4-5	.....	9	.....	sw.	0	0	2	w.	cloudy.
S. S. Vandalia, N. 58° 41′, W. 3° 04′.....	29.36	745.7	42.6	5.9	93	sse.	.....	.....	7	.....	8	.....	sse	.....	.....	7-8	sse.	stormy.
S. S. Bulgarian, N. 47° 54′, W. 41° 35′*.....	28.83	732.3	.....	.....	.....	w.	.....	.....	7	.....	10	.....	w.	10 h'r	10 h'r	high	wnw.	
S. S. Virginian, N. 50° 46′ W. 12° 56′*.....	29.25	742.9	50	10.0	.....	wsw.	.....	.....	8	.....	6	.....	w.	8 h'r	8 h'r	h'vy	sw.	clearing.
S. S. Archimedes, N. 19° 30′, W. 23° 40′	30.09	764.3	.....	.....	.....	ne.	.....	.....	5	.....	3	.....	ene.	0	0	long	ne.	fair.
S. S. Rio Grande. N. 27° 55′, W. 79° 52†.....	30.14	765.5	74	23.3	.....	sse.	.....	.....	2	.....	3	.....	se.	0	0	mod.	.....	clear.
S. S. Chalmette, N. 26° 27′, W. 80° 00′†.....	30.18	766.6	74	23.3	.....	ese.	.....	.....	6	.....	5	.....	e.	1 h'r	1 h'r	r'gh	e.	fair.
S. S. New York, N. 28° 30′, W. 88° 30′.....	.....	.....	76	24.4	.....	ese.	.....	.....	3	.....	5?	.....	se.	0	0	sm'h	.....	clear?
S. S. Lone Star, N. 25° 35′ W. 79° 55′ †.....	30.14	765.5	75	23.9	.....	e.	.....	.....	3	.....	5	.....	e.	2 h'r	2 h'r	small	e.	rain-squalls
S. S. Hermod, N. 49° 52′, W. 4° 30′†.....	29.62	752.3	53.6	12.0	.....	ssw.	.....	.....	7	.....	10	.....	s.	8 h'r	8 h'r	cross	ssw.	hazy.
S. S. Alleghany, Boston, Mass †.....	30.26	768.6	22	— 5.6	.....	sw.	.....	.....	2	.....	4?	.....	sw.	0	0	.....	.....	cloudy?

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1.—*North Atlantic.*—Continued.																		
S. S. Archimede, N. 33° 18′, W. 46° 22′†	30.25	768.3	68	20.0	.....	ne.	.....	.....	2	.....	8	.....	ene.	8 h'r	8 h'r	long	nnw.	cloudy.
S. S. Picqua, N. 35° 53′ W. 10° 30′	.....	.....	60	15.6	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	long	nw.	clear.
S. S. City of Merida, N. 22° 41′, W. 84° 53′†	30.11	764.8	82	27.8	.....	ne.	.....	.....	2	.....	2	.....	ne.	0	0	light	ne.	fine.
S. S. City of Washington, N 19° 06′ W. 96° 09′†	29.93	760.2	76	24.4	.....	e.	.....	.....	1	.....	2	.....	e.	0	0	light	e.	fine.
S. S. Santiago, Santiago, Cuba, W. I.	30.05	763.3	74	23.3	.....	n.	.....	.....	3	.....	0	.....	.....	2 h'r	2 h'r	.....	.....	fine.
S. S. Denmark, Eddystone Light, Engt	29.65	753.1	51	10.6	.....	ssw.	.....	.....	8	.....	10	.....	s.	2 h'r	2 h'r	h'vy	ssw.	showery.
S. S. Egypt, N. 50° 13′ W. 22° 20′*	29.03	737.3	40	4.4	.....	w.	.....	.....	9	.....	10	.....	w.	6 h'r	6 h'r	h'vy	w.	cloudy
S. S. England N. 48° 52′, W. 34° 28′	29.37	746.0	.....	.....	.....	w.	.....	.....	7	.....	8	.....	w	hail	hail	h'vy	var.	squally.
S. S. The Queen, N. 48° 02′, W. 29° 50′	.....	.....	35	1.7	.....	w.	.....	.....	6	.....	8	.....	w.	rain	rain	h'vy	var.	squally.
S. S. Braunschweig, N. 35° 32′, W. 15° 47′	30.36	768.6	76.0	24.4	52	wsw.	.....	.....	4	.....	2?	.....	wsw.	0	0	long	wsw.	cloudy?
S. S. Donau, N. 46° 34′, W. 30° 44′	29.82	757.4	.....	.....	.....	w.	.....	.....	6–10	.....	8	.....	w.	20 h'r	20 h'r	h'vy	w.	squally.
S. S. Wesser, N. 49° 45′, W. 10° 08′	29.43	747.5	.....	.....	.....	var.	.....	.....	6–8	.....	8	.....	wsw.	1 h'r	1 h'r	hv'y	wsw.	hazy.
S. S. Muriel, Martinique, Windward Island, W. I†	29.97	761.2	79	26.1	.....	ene.	.....	.....	5	.....	0	.....	.....	.....	.....	sm'h	.....	.....
S. S. Belgenland, N. 49° 57′, W. 9° 00′*†	29.45	748.0	51	10.6	72	sw.	.....	.....	7	.....	8	.....	sw.	12 h'r	12 h'r	h'vy	var.	fair.
S. S. Nederland, N. 45° 45′ W. 37° 36′	.....	.....	36	2.2	90	w.	.....	.....	6	.....	5	.....	w.	3 h'r	3 h'r	r'gh	w.	squally.
S. S. Rhynland, N. 50° 00′, W. 14° 40′	29.04	737.6	43	6.1	?	wsw.	.....	.....	9	.....	4	.....	wsw.	10 h'r	10 h'r	high	w.	squally.
S. S. Pennland, Antwerp, Belgium	30.15	765.8	46	7.8	?	se.	.....	.....	3	.....	1	.....	se.	8 h'r	8 h'r	.....	.....	fine
S. S. Switzerland, N. 43° 23′, W. 50° 54′†	30.17	766.3	.....	.....	.....	wsw.	.....	.....	2	.....	10	.....	wsw.	0	0	long	wsw.	cloudy.
S. S. Waesland, Jersey City, N. J	30.35	770.9	29	— 1.7	.....	sw.	.....	.....	3	.....	10	.....	sw.	0	0	.....	.....	overcast.
S. S Zeeland, Flushing, Netherlands*†	30.10	764.5	46	7.8	.....	sse.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. P. Oaland, N. 47° 00′, W. 33° 18′	29.69	754.1	39.9	4.4	97	wsw.	.....	.....	6	.....	0	.....	w.	.....	.....	7	nw.	squally.
S. S. Rotterdam, N. 41° 33′, W. 60° 25′*	30.11	764.9	49.3	9.6	71	wnw.	.....	.....	3	.....	2	.....	wnw.	e	o	2	wnw.	clear.
S. S. W. A. Scholten, Rotterdam, Nethlands*	30.13	765.3	48.8	9.3	70	wsw.	.....	.....	4	.....	2	.....	w.	o	o	.....	.....	.....
S. S. Curacoa, N. 14° 30′, W. 68° 35′†	30.03	762.7	79	26.1	86	e.	.....	.....	6	.....	2	.....	e.	o	o	r'gh	e.	hazy.
S. S. Claudius, Livingston, Hunduras†	30.11	764.8	72.5	22.5	98	ssw.	.....	.....	1	.....	8	.....	ne.	7 h'r	7 h'r	light	nne.	light rain.
S. S. Valencia, N. 18° 15′, W. 68° 06′†	30.14	765.5	79	26.1	78	ene.	.....	.....	5	.....	3	.....	ne.	o	o	mod.	ese.	fair
S. S. State of Florida, N. 55° 08′, W. 13° 59′	.....	.....	47	8.3	.....	ssw.	.....	.....	9	.....	10	.....	ssw.	o	o	h'vy	w.	hazy.
S. S. Romano, off Orfordness, Eng.	.....	.....	48	8.9	.....	sse.	.....	.....	8	.....	9	.....	s.	o	o	h'vy	s.	gloomy.
S. S. Salerno, Hull, Engt	29.68	753.9	45	7.2	.....	sw.	.....	.....	9	.....	10	.....	sw.	3 h'r	3 h'r	r'gh	se.	raining.
S. S. Brooklyn, N. 42° 48′, W. 60° 42′	.....	.....	28	— 2.2	.....	wsw.	.....	.....	5	.....	.....	.....	wsw.	3 h'r	3 h'r	h'vy	w.	clear.
S. S. Surrey, N. 41° 25′ W. 65° 02′†	30.22	767.6	22	— 5.6	.....	wsw.	.....	.....	4	.....	2	.....	w.	o	o	sm'h	.....	clear.
S. S. Olbers, N. 41° 18′, W. 9° 57′*†	30.05	763.3	60	15.6	.....	ssw.	.....	.....	6	.....	8	.....	ssw.	10 h'r	10 h'r	h'vy	var.	showery.
S. S. Plantyn, N. 47° 24′, W. 37° 39′	.....	.....	.....	.....	.....	.....	.....	.....	8	.....	6	.....	wnw.	o	o	high	wnw.	.....
S. S. Saxon, N. 40° --′, W. 73° 25′	.....	.....	.....	.....	.....	nw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	threaten ing
S. S. Britannic, N. 45° 20′, W. 43° 58′†	30.02	762 5	35	1.7	100	nw.	.....	.....	6	.....	9	.....	nnw.	2 h'r	2 h'r	cross	var.	sleeting.
S. S Celtic, N. 47° 50′, W. 36° 04′†	29.48	748.8	35	1.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S. S. Republic, off Mine Head, Irelandt	29.35	745.5	47	8.3	92	wsw.	.....	.....	7	.....	9	.....	sw.	16 h'r	16 h'r	7	wsw.	drizzling.
S. S. Auckland, N. 2° 04′, W. 27° 30′	29.95	760.7	78	25.6	86	ne.	.....	.....	3	.....	6	.....	.....	.....	.....	.....	.....	d clouds.
S. S. Chamois, N. 27° 34′, W. 36° 58′	30.34	770.6	69.5	20.8	61	var.	.....	.....	2	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Commewyne, N. 47° 22′, W. 12° 18′*	29.56	750.8	50.8	10.4	79	sw.	.....	.....	7	.....	3	.....	.....	.....	.....	.....	.....	squally.
S S. City of Agra, N. 26° 31′, W. 45° 45′	30.28	769.1	71	21.7	85	e.	.....	.....	5	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Ptolmey, N. 3° 30′, W. 43° 33′	29.96	761.0	79.5	26.4	95	nne.	.....	.....	8	.....	9	.....	.....	.....	.....	.....	.....	gloomy.
S. S. Antonio Lopez, N. 21° 33′ W. 76° 42′	30.06	763.5	75.5	24.2	88	ene.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	.....	.....
Schr. Abbie H. Ghcen, Wilmington, Del †	30.35	770.9	30	— 1.1	.....	e.	.....	.....	2	.....	3	.....	.....	o	o	mod.	ene.	clear.
Bk. Abbie Clifford, Cardenas, Cuba, W. I†	30.10	766.1	72	22.2	.....	ese.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	threatening.
Bk. Aquidneck, N. 31° 37′, W. 45° 03′ *†	30.30	769.6	.....	.....	.....	var.	.....	.....	2	.....	2	.....	nnw.	o	o	.....	.....	fine.
Bk. Alcira, Maracaybo, Venezula, S. A.	29.97	761.2	83	28.3	.....	ene.	.....	.....	1	.....	.....	.....	var.	light	light	h'vy	nw.	clear.
Schr. Anna A. Holton, Tampico Mexicot	30.01	762.2	77	25.0	.....	ese.	.....	.....	2	.....	3	.....	ne.	o	o	.....	.....	clear.
Schr. Annie R. Lewis, St. Pierre, Martinique, W. I†	30.14	765.5	82	27.8	.....	ene	.....	.....	1	.....	8	.....	ese.	o	o	sm'h	.....	.....
Schr. Anna Thormann, N. 14° 12′, W. 37° 39′*	30.14	765.5	72.9	22.7	60	ne	.....	.....	5	.....	2	.....	ene.	2 h'r	2 h'r	.....	.....	clear.
Bk. Aureole, Swansea, Wales*†	.....	.....	59	15.0	.....	wsw.	.....	.....	6	.....	6 k	.....	ne.	o	o	r'gh	ne.	fair.
Bk. Achille F. Queenstown, Irelandt	29.41	747.0	48	8.9	92	s.	.....	.....	7	.....	9	.....	wsw.	9 h'r	9 h'r	.....	.....	cloudy.
Bg. Annie R. Stoner, N. 3° 23′, W. 45° 35′*†	30.15	765.8	.....	.....	.....	ne.	.....	.....	5	.....	8	.....	ssw.	3 h'r	3 h'r	sm'h	.....	squally.
S. Armenta, N. 7° 48′, W 30° 10′*	29.93	760.2	76	24.4	86	ene.	.....	.....	4	.....	8	.....	ne.	o	o	r'gh	nne.	cloudy.
S. S. Burswell, N. 52° 55′, W. 5° 20′*†	29.43	747.5	.....	.....	.....	ssw.	.....	.....	6	.....	7	.....	ene.	o	o	mod.	ene.	hazy.
Bk. Bremen, N. 39° 27′, W. 73° 35′*	30.28	709.1	.....	.....	.....	wsw.	.....	.....	2	.....	9	.....	ssw.	9 h'r	9 h'r	high	con.	gale.
S. S. Benledi, N. 48° 00′, W. 74° 30′*	29.43	747.5	50	10.0	72	wsw.	.....	.....	4–5	.....	6?	.....	sw.	o	o	sm'h	.....	covered.?
Bk. Bare, N. 10° 17′, W. 27° 15′	.....	.....	70	24.4	.....	ene.	.....	.....	4	.....	5	.....	wsw.	12 h'r	12 h'r	h'vy	sw.	squally.
Bk. Pilgrim, N. 29° 13′, W. 44° 20′*†	30.40	772.1	.....	.....	.....	sse.	.....	.....	1	.....	3	.....	ene.	o	o	mod.	ene.	hazy.
Bk. Champion, N. 44° 38′, W. 23° 40′	.....	.....	54	12.2	.....	wnw	.....	.....	7	.....	5	.....	se.	o	o	r'gh	wnw.	fair.
Bkt. C. S. Bushnell, off Cape Palos, Spain.	30.42	772.7	.....	.....	.....	calm	.....	.....	0	.....	5	.....	wnw.	16 h'r	16 h'r	long	w.	hailing.
S. Cornelius, N. 55° 22′, W. 23° 57′*†	27.50	098.5	.....	.....	.....	w.	.....	.....	9	.....	0	.....	.....	o	o	sm'h	.....	fine.
Bk. Commerce, Cadiz, Spain †	30.26	768.0	59	15.0	.....	ne.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bk. Ceres, N. 3° 24′, W. 25° 47′*	29.99	761.7	75.4	24.1	85	ese.	.....	.....	4	.....	0	.....	.....	o	o	.....	.....	fine.
Bk. Chas. Stewart, N. 24° 39′, W. 39° 40′ †	30.31	769.9	74	23.3	.....	ese.	.....	.....	3	.....	10	.....	s.	3 h'r	3 h'r	sm'h	var.	rainy.
S. S. D. J. Foley, N. 32° 30′, W. 74° 31′*†	30.25	768.3	71	21.7	95	s.	.....	.....	4	.....	5	.....	e.	rain	rain	r'gh	var.	.....
Schr. Edith R. Seward, Palenque, Hayti, W. I†	30.11	764.8	78	25.6	.....	ne.	.....	.....	2	.....	5	.....	se.	o	o	sm'h	var.	fine.
S. E. J. Spicer, N. 39° 45′, W. 25° 55′	30.05	763.3	55	12.8	93	nw.	.....	.....	5	.....	3	.....	ene.	¼ h'r	¼ h'r	sm'h	e.	clear.
Schr. F. E. McDonald, N. 30° 58′ W., 76° 00′†	30.30	769.0	72	22.2	.....	s.	.....	.....	5	.....	5	.....	wnw.	10 h'r	10 h'r	high	nw.	fair.
S. S. Foscollo, N. 49° 35′, W. 4° 02′†	29.77	756.1	.....	.....	.....	ssw.	.....	.....	1	.....	5	.....	s.	o	o	.....	e.	fine.
S. Festina Lente, N. 55° 08′, W. 23° 55′	28.29	718.6	.....	.....	.....	w.	.....	.....	8	.....	10	.....	sw.	7 h'r	7 h'r	high	w.	raining.
Bk. Grey Eagle, N. 32° 56′ W. 74° 20′*†	30.15	765.8	.....	.....	.....	ssw.	.....	.....	9	.....	10	.....	.....	12 h'r	12 h'r	hv'y	n.	gale.
Bk. George, N. 38° 35′, W. 73° 20′ *†	30.38	771.6	.....	.....	.....	n.	.....	.....	1	.....	0	.....	.....	o	o	light	nne.	clear.
Bk. Heinrich & Tonlo, off Barnegat, N. J	30.25	768.3	35	1.7	.....	sse.	.....	.....	3	.....	10	.....	.....	o	o	sm'h	.....	hazy.
Schr. Hattie Weston, Mayaro, Trinidad, W. I*†	30.05	763.3	79	26.1	.....	ene.	.....	.....	0–1	.....	10	.....	.....	o	o	sm'h	.....	cloudy.
Bk. Hattie G. McFarland, Pascagoula, Miss*†	30.18	766.6	66	18.9	.....	e.	.....	.....	3	.....	2	.....	ene.	o	o	mod.	e.	fair.
Bk. Horace Scudder, N. 20° 10′, W. 41° 48′*†	30.20	767.1	72	22.2	.....	e.	.....	.....	1	.....	fg.	.....	.....	o	o	.....	.....	foggy.
Schr. Isabel Alberto, N. 33° 24′, W. 74° 20′†	30.22	767.6	.....	.....	.....	e.	.....	.....	2	.....	9	.....	e.	sq'lls	sq'lls	long	se.	cloudy.
S. S. J. M. Wilson, Tampico Bar, Mexico*†	29.95	760.7	72	22.2	.....	ne.	.....	.....	2	.....	10	.....	se.	light	light	mod.	ne.	light rain.
Schr. John L. Thomas, N. 24° 18′, W. 81° 10′*†	30.20	767.1	.....	.....	.....	e.	.....	.....	1	.....	fg.	.....	.....	o	o	.....	.....	foggy.
Bg. L. & W. Armstrong, Pointea Pitre, Guadeloupe*†	30.12	765.0	.....	.....	.....	calm	.....	.....	3	.....	1	.....	e.	o	o	short	ene.	clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3	.....	.....	.....	se.	.....	.....	0	.....	2	.....	ese.	o	o	.....	.....	clear
S. S. Madrid, N. 52° 40′ E. 1° 54′*†	30.10	764.5	46	7.8	92	s.	.....	.....	1	.....	0	.....	.....	o	o	.....	.....	fine.
Bk. Mary A. Troop, Sharpness Point, Eng*†	29.62	752.3	.....	.....	.....	sw.	.....	.....	6	.....	7	.....	s.	6 h'r	6 h'r	r'gh	s.	gloomy.
Bk. Myrtle, St. Thomas, W. I*†	30.00	762.0	.....	.....	.....	e.	.....	.....	9	.....	10	.....	.....	16 h'r	16 h'r	.....	.....	threatening.
S. M. P. Grace. N. 31° 24′, W. 43° 52′*	30.19	766.8	64	17.8	.....	var.	.....	.....	2	.....	1	.....	e.	o	o	.....	.....	fair.
S. S. Mendoza, N. 32° 23′, W. 55° 14′*†	30.15	765.8	.....	.....	.....	n.	.....	.....	1–2	.....	3	.....	w.	slt	slt	long	nnw.	.....
Bkt. Noreen, Matanzas, Cuba, W. I*†	30.19	766.8	.....	.....	.....	ese.	.....	.....	6	.....	9	.....	nne.	2 h'r	2 h'r	mod.	.....	cloudy.
Schr. Ocean Traveler, N. 27° 26′, W. 74° 40′†	30.20	767.1	.....	.....	.....	ene.	.....	.....	1	.....	1	.....	se.	o	o	.....	.....	fine.
Bk. Ottawa, Torrevieja Road, Spain*	30.32	770.1	59	15.0	.....	nw.	.....	.....	3	.....	2	.....	.....	.....	.....	.....	.....	clear.
S. S. Raleigh, Boston, Masst	30.04	763.0	24	— 4.4	.....	sw.	.....	.....	3	.....	0	.....	.....	o	o	.....	.....	clear.
Bk. Reindeer, N. 14° 05′, W. 61° 12′ *..	30.02	762.5	.....	.....	.....	ene.	.....	.....	2	.....	0	.....	.....	o	o	.....	.....	clear.
S. Rudolph, N. 25° 08′, W. 37° 34′*	30.01	762.2	68.0	20.0	.....	ese.	.....	.....	6	.....	.....	.....	ene.	.....	.....	.....	.....	clear.
Bg. Saga, Queenstown, Ireland	.....	.....	.....	.....	.....	w.	.....	.....	5	8	.....	.....	ese.	3 h'r	3 h'r	mod.	var.	cloudy.
Bk. Sunbeam, N. 33° 38′, W. 17° 46′	30.30	769.6	64	17.8	89	sw.	.....	.....	9–10	.....	.....	.....	.....	24 h'r	24 h'r	6-8	wsw.	rain & hail.
Bk. Scud, N. 25° 36′, W. 68° 49′ *†	30.23	767.8	.....	.....	.....	e.	.....	.....	3	.....	10	.....	sw.	o	o	h'vy	wnw.	cloudy.
Schr. S. B. Hubbard, N. 37° 27′, W. 74° 58*†	30.39	771.9	50	10.0	.....	e.	.....	.....	5	.....	2	.....	e.	o	o	mod.	se.	fine.
Bk. Usko, N. 46° 34′, W. 10° 19′*†	29.61	752.1	.....	.....	.....	s.	.....	.....	1	.....	10	.....	sw.	o	o	sm'h	.....	threatening.
S.Vincenzo Accame, N. 38° 30′ W. 53° 02′*†	30.24	768.0	59.0	15	.....	ese.	.....	.....	7	.....	10	.....	.....	4 h'r	4 h'r	h'vy	sw.	cloudy.
Schr. Viola Reppard, Tybee Island, Gat	30.25	768.3	62	16.7	.....	no.	.....	.....	2	.....	10	.....	.....	1½ h'r	1½ h'r	cross	var.	.....
Schr. Wm. Wiler, Point a Petre, Gandeloupe, W.I†	30.11	764.8	.....	.....	.....	e.	.....	.....	2	.....	10	.....	calm	o	o	.....	.....	foggy.
S. S. Wm. Woodbury, N. 61° 41′, W. 17° 12′	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	e.	o	o	.....	.....	fine.
S. S. Colon, N. 27° 21′, W. 73° 42′†	30.23	767.8	40	4.4	.....	se.	.....	.....	9	.....	10?	.....	se.	.....	.....	long	sse.	clear.?
S. S. Ambrose, N. 20° 27′ W., 62° 40′†	30.22	767.6	70	21.1	.....	ese.	.....	.....	3	.....	1	.....	ese.	o	o	long	ne.	clear.
			77	25.0	.....	ene.	.....	.....	4	.....	2	.....	ene.	o	o	4	e.	fine.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 2—South Atlantic.																		
H. M. S Heroine, S. 40° 36′, W. 57° 52′	29.99	761.7	60	15.6	100	sse.			1		1	sse.				mod		blue sky.
H. M. S. Starling, S. 7° 08′ E. 80 31′	29.93	760.2	82	27.8	82	s.			2		1	sse.				1	ssw.	blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay*	29.94	760.5	68	20.0	90	sse.	17	7.6			10		sse.	0	0			cloudy.
U. S. S. Galena, Montevideo, Uruguay*	29.95	760.7	67	19.4	94	sse			3		10		se.			sm'h		cloudy.
S. S. Grecian, Montevideo, Uruguay*	29.96	761.0	71	21.7	75	se.			1		10		se.	0	0	sm'h		cloudy.
S. S. Hevelius, Buenos Ayres, La Plata†	30.12	765.0	72	22.2		se.			4		2		sse.	0	0			clear.
Bk. May Hulse, S. 57° 36′ W. 62° 52′	29.31	744.5	43.7	6.5	83	wsw.			8		10							drizzling
Bk. Edmund Phiney, S. 57° —′, W. 64° 55′ †	29.58	751.3	46	7.8		w.			7		10		w.	slight	slight	r'gh	wsw.	stormy.
Bk. E. L. Pettingill, S. 30° 00′, W. 29° 00′*†	30.20	767.1	80	25.7		nne.			2		2		ne.	0	0	sm'h		
S. E. B. Sutton, S. 24° 10′, W. 39° 58†.	29.99	761.7	79	26.1	86	nne.			3		8		n.	0	0	mod.	n.	cloudy.
S. Grecian, S. 18° 46′, W. 31° 47′†	30.08	764.0	78	25.6	91	e.			3		7		var.	2 h'r	2 h'r	sm'h	se.	light rain.
S. George Stetson, S. 56° —′, W. 65° —′ *†	29.65	753.1	45	7.2	84	sw.			6		2		sw.	0	0	h'vy	sw.	clear.
S. Titan, S. 29° 52′, W. 46° 09′*†	29.88	758.9	78	25.6	91	s.			2		3		s.	0	0	long	ne.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay †	30.02	762.5	69	20.6		se.			4		10		se.	0	0			cloudy.
District No. 3—North Pacific.																		
S. S. Mexico, La Paz, Lower Cal†	30.02	762.5	69	20.6	70	calm			0		0					sm'h		clear.
S. S. Belgic, N. 33° 33′, E. 136° 15′*†	30.15	765.8	54	12.2	55	ne.			2		2			0	0	sm'h		clear.
S. S. Coptic, N. 37° 58′ W. 139° 53′	30.16	766.1	47.5	8.6	77	nw.			5		4		nw.	4 h'r	4 h'r	mod.	nw.	squally.
S. S. Gaelic, N. 46° 58′, W. 173° 59′	30.54	775.7	38	3.3	81	n.			4		10		n	1 h'r	1 h'r		nnw.	cloudy.
S. S. Oceanic, N. 33° 36′, E. 157° 35′*	29.52	749.8	55	12.8	68	wsw.			7		4		w.			mod.	w.	squally.
S. S. Mississippi, Seattle, Wash. Ter †	29.63	752.6	36	2.2	80	e.			1		7		e.					fair.
S. S. Willamette, Seattle, Wash. Ter †	29.62	752.3	32	0.0	90	se.			3		8		se.	snow	snow			overcast.
S. S. City of Chester, San Francisco, Cal*†	29.82	757.4	48	8.9	85	sw.			4		10							light rain.
S. S. Dakota, N. 38° 00′, W. 122° 58′ †*	29.72	754.9	48	8.9	70	nw.			5		5?		nw.	0	0	mod	var.	clear ?
S. S. G. W. Elder, Victoria, B. C †.	29.64	752.8	36	2.2	80	n.			1		10			snow	snow	sm'h		cloudy.
S. S. Orizaba, N. 33° 43′, W. 118° 15′*†	29.96	761.0	45	7.2	61	nw.			6				var.	rain	rain	con.	var.	cloudy.
S. S. Queen of the Pacific, Portland, Oregon †	29.57	751.1				e.			2		5?							overcast.
S. S. State of California, Portland, Oregon †	29.56	750.8	33	0.6	89	calm			0		10							cloudy.
S. S. City of Pekin, Hong Kong, China †	30.02	762.5	64	17.8	100	e.			3		10		e.					cloudy.
S. S. City of Tokio, N. 36° 57′, W. 131° 41′†	30.00	762.0	48	8.9	70	nw			6		10		nw.	light	light	h'vy	nw.	squally.
S. S. City of Rio de Janeiro, N. 8° 27′, W. 84° 00			82	27.8	75	nnw.			1		2		wnw.	0	0			fine.
S. S. Colima, Acajutla, San Salvador†	29.91	759.7	83	28.3	87	var.			2		3		n.	0	0	sm'h	s.	clear.
S. S. Granada, N. 22° 50′, W. 109° 20′ †	29.92	760.0	71	21.7	75	w			4		1		w.	0	0	mod.	w.	clear.
S. S. Zealandia, N. 20° 16′, W. 158° 49′	29.89	759.2	71	21.7	90	ese.			4		10		e.			h'vy	ese.	rainy.
H. M. S Curacoa, Yokohama, Japan	30.12	765.0	33.5	0.8		n.			1-2		0							blue sky.
H. M. S. Himalaya, N. 4° 12′, E. 106° 56′	29.91	759.7	80	26.7	87	nne.			3		4							d. clouds.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.82	757.4	72	22.2		sw.			3		5							d. clouds.
H. M. S. Swiftsure, N. 0° 38′, W. 106° 15′	29.85	758.9	75	23.9	100	ase.			1-2		3	n.						d. clouds.
U. S. Naval Hospital, Yokohama, Japan*	30.31	769.9	35	1.7	54	nw.			1		5		w.	0	0			hazy.
U. S. S. Independence, Mare Island, Cal	29.85	758.2	48	8.9	85	sw.			5		10		sw.	1.07	27.2			cloudy.
U. S. S. Lackawanna, Honolulu Sandwich, Islands*	29.80	756.9	76	24.4	82	s.			3		2		sw.					fair.
U. S. S. Monocacy, N. 23° 38′ E. 117° 44′	30.01	762.2	60	15.6	88	se.			1		10		ne.			sm'h		cloudy.
U. S. S. Palos, Tientsin, China*	30.16	766.1	33	0.6	89	n.			1		10		e.					cloudy.
U. S. S. Richmond, Hong-Kong, China *	29.93	760.2	64	17.8	100	e.			3		5?		e.	0.15	3.8			clear.?
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.80	756.9	74	23.3	90	s.			4		2		s.			sm'h		fair.
S. S. Scotia, N. 11° 46′, E. 112° 53′	29.96	761.0	78	25.6	78	ne.			4		4							d. clouds.
S. Henry Failing, N. 42° 00′ W. 125° 20′ †	29.20	741.7	44	6.7		wsw.			7		1?		w.	snow	snow	cross	nw.	snow & sleet?
S. St. Francis, N. 21° 02′, W. 125° 12′†	30.21	767.3	67	19.4		e.			4		6		e.	0	0	long	n.	cloudy.
Tamega, Macao, China	30.02	762.6	66.9	19.4	85	se.			3		5		var.	0	0			d. clouds.
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.89	759.2	67	19.4	95	calm			0		8							foggy.
H. M. S. Kingfisher, S. 11° 53′, W. 84° 11′†	29.92	760.0	76	24.4		s.			3		7					4	s.	d clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	30.10	764.5	71.3	21.8	85	nw.			2		3					sm'h		d. clouds.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.86	758.4	61	16.1		nne.			2							2	nne.	d. clouds.
H. M. S. Rocket, S. 52° 30′, W. 74° 00′	30.00	762.0	52	11.1		calm			0		6							d. clouds.
H. M. S. Sylvia, Anna Id. Patagonia	29.96	761.0	49.5	9.7	93	nw.			1		8							d. clouds.
U. S S. Essex, Callao, Peru	29.82	757.4	67	19.4	89	sse.			1		5		se.				sse.	fair.
U. S. S. Iroquois, S. 30° 38′, W. 100° 17′	30.17	766.3	70	21.1	70	ese			2		2		ese.			sm'h	s.	clear.
U. S. S. Onward, Callao, Peru*†	30.00	762.0	66	18.9	94	calm			0		10		n.					misty.
U. S. S. Pensacola. S. 15° 43′, W. 76° 11′†	29.79	756.7	73	22.8	90	se.			1		10		se.	light	light	long	sse.	showery
British Merchant, S. 27° 44′, W. 133° 10′	30.04	763.0	76	24.4	82	ese.			5		5							squally.
Bk. Childwall, S. 16° 00′, W. 136° 25′*	29.76	755.9	79	26.1		var.			2		2		e.	0	0	sm'h		fine.
Bk. Gronsvaer, Auckland, New Zealand†	30.11	764.8	76.6	24.8		ne.			2		3		nw.	0	0			fine.
S. S. Australia, Sydney, N. S. W*.	29.77	756.1	64	17.8	78	calm			0		0			3 h'r	3 h'r			clear.
S. S City of Sydney, Sydney, N. S. W†	30.05	763.3	73	22.8	81	se.			3		2		se.	0	0			fair.
H. M. S. Gannet, S. 10° 45′, W. 78° 50′	29.84	757.9	71	21.7	90	se.			4		9					3	s.	d. clouds.
Bk. Warden Law, S. 29° 50′, W. 86° 16′ *	30.28	769.1				se.			2		2		ese.	0	0	sm'h	se.	fair.
S. Sovereign of the Seas, S. 53° 25′, W. 88° 40′ *†	29.90	759.4	49	9.4	93	nw.			3		9		nw.	0	0	mod.	wsw.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 6° 10′ E. 39° 11′	29.85	758.2	87	30.6		nne.			1		3	nne.				1	nnw.	d. clouds.
H. M. S. Eclipse, N. 28° 59′ E. 50° 48′	29.90	759.4	65	18.3		sse.			3		8	sse.				1		d. clouds.
H. M. S. Euryalus, Rangoon, India	29.83	757.7	80	26.7	86	se.			1		2	calm						d. clouds .
H. M. S. London, Zanzibar, Zanzibar	29.89	759.2	82	27.8		nnw.			1		4	nnw.				1	nnw.	d. clouds.
H. M. S. Woodlark, N. 27° 40′, E. 51° 16′	29.97	761.2	70.5	21.4	75	se.			5-6		5	ese.				6	s.	squally.
S. S. Galatia, N. 17° 04′, E. 40° 45′†	29.99	761.7	78	25.6	90	ese.			3		1		se.	½ h'r	½ h'r	long	se.	fine.
Bk. Essex, S. 34° 37′, E. 22° 32′*†	29.98	761.5	74	23.3		se.			2		0			0	0	h'vy	w.	fine.
Bkt. Josephine, S. 34° 15′, E. 23° 41′ †	29.95	760.7	74	23.3	72	e.			4		0			0	0	long	ssw.	hazy.
S. Sacramento. S. 45° 32′, E. 29° 43′ *†	30.00	762.0	55	12.8	87	ne.			6	k	0			0	0	mod.	wnw	

International Chart I. February 14, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B. Hazen, Chief Signal Officer.
Signal Office 14th.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 15, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.41	772.5	57.6	14.2	76	n.	.....	.....	2	.....	0	.....	.....	0	0	clear.....	**Malaterre.**
Algiers	.....	.....	30.40	772.1	57.2	14.0	61	ese.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	**Thève.**
La Calle	.....	.....	30.30	769.5	59.0	15.0	72	nw.	.....	.....	3	.....	4	.....	.....	0.039	1.0	cloudy.....	**Fonfrède.**
Tunis	.....	.....	30.28	769.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**Jacques.**
Saida	.....	.....	30.41	772.4	63.0	17.2	86	sw.	.....	.....	2	.....	2	.....	.....	0	0	fair.....	**Pérès.**
Tebessa	.....	.....	30.34	770.7	44.2	6.8	77	n.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	**Dognon.**
Geriville	.....	.....	.....	.....	57.9	14.4	0	nnw.	.....	.....	1	.....	1	.....	.....	0	0	very fair.....	**Forfert.**
Laghouat	.....	.....	30.40	772.2	61.5	16.4	40	nnw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	**Abraham.**
Biskra	.....	.....	30.37	771.4	62.2	16.8	37	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	**Malau.**
Australian.																			
Melbourne, Victoria	29.75	755.6	29.84	757.9	77.2	25.1	55	nne.	3	1.3	.....	.....	6	.....	.....	0	0	fine.....	**R. L. J. Ellery.**
Austro-Hungarian.																			
Agram	29.84	757.8	30.41	772.4	41.0	5.0	69	w.	.....	.....	2	.....	6	.....	.....	0	0	.....	**Prof. Ivan Stezir.**
Cracow, I. R Observatory	29.63	752.6	30.44	773.2	34.5	1.4	82	ene.	8.1	3.6	.....	.....	4	.....	.....	0	0	.....	**Dr. Wierzbiski.**
Eperies	29.49	749.0	30.41	772.5	35.2	1.8	60	calm	.....	.....	0	4 cs	0	.....	.....	0	0	.....	**Julius Mikolik.**
Gratz	28.98	736.2	30.29	769.3	38.1	3.4	78	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	**Andreas Rospini.**
Hermannstadt	28.92	734.6	30.43	772.9	33.8	1.0	89	sse.	.....	.....	2	.....	0	.....	.....	0	0	.....	**Prof. A. Gottschling.**
Kremsmunster, Obs'y	28.99	736.4	30.41	772.5	32.4	0.2	94	se.	.....	.....	1	.....	10	.....	.....	0	0	foggy.....	**The Staff.**
Lemberg	29.50	749.3	30.58	776.6	23.5	— 4.7	51	s.	.....	.....	1	.....	0	.....	.....	0.004	0.1	.....	**Dr. T. Stanecki.**
Neu Schmecks	26.89	683.0	30.30	769.5	49.1	9.5	27	calm	.....	.....	0	.....	1	.....	.....	0	0	.....	**Dr. V. von Szontagh.**
Pola	30.20	767.0	30.31	769.9	49.5	9.7	68	w.	.....	.....	1	.....	2	.....	.....	0.134	3.4	.....	**I. R. Hydrographic Office.**
Szathmar	29.90	759.4	30.37	771.3	43.2	6.2	45	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	**Joseph Midlinszky, S. J.**
Szegedin	30.12	765.1	30.42	772.6	38.8	3.8	57	s.	.....	.....	1	.....	3	.....	.....	0	0	.....	**Karl Stancel.**
Trieste	30.21	767.3	30.31	769.8	50.0	10.0	67	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	**Royal Academy.**
Vienna	29.68	753.8	30.43	772.8	38.5	3.6	57	se.	.....	.....	1	.....	1	.....	.....	0	0	.....	**I. R. Central Met. Obs'y.**
British.																			
Aberdeen	29.58	751.3	29.68	753.9	43.7	6.5	77	s.	23	10.3	.....	.....	3	.....	.....	0	0	blue sky.....	**W. Boswell**
Armagh, Observatory	29.41	747.0	29.66	753.4	40.2	4.6	81	sw.	19	8.5	.....	.....	7	.....	.....	.....	.....	d. clouds.....	**S. Call.**
Bidston, Liverpool Obs'y	.....	.....	29.77	756.1	45.2	7.3	76	sw.	20	8.9	.....	.....	9	.....	.....	.....	.....	overcast.....	**John Hartnup.**
Bolton, Sharples	29.25	742.9	29.78	756.4	44.5	6.9	88	ssw.	18	8.0	.....	.....	10	.....	.....	.....	.....	overcast.....	**Thomas Mackereth.**
Bradford, Yorkshire	29.38	746.2	29.78	756.4	47.6	8.7	74	sw.	.....	.....	2	.....	10	.....	.....	0.01	0.3	overcast.....	**McLandsborough&Preston.**
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	81.0	27.2	62	ne.	.....	.....	3	.....	2	.....	.....	.....	.....	d clouds.....	**Corpl. J. Surgenor, A. H. C**
Cardington	29.80	756.9	29.91	759.7	52.4	11.3	82	w.	.....	.....	2.0	.....	5	.....	.....	.....	.....	d. clouds.....	**John McLaren.**
Chatham, School M. E.	29.84	757.9	29.97	761.2	51.1	10.6	84	sw.	.....	.....	3	.....	7	.....	.....	blank	blank	gloomy.....	**Corpl. G. A. Pickles.**
Falmouth, Observatory	29.70	754.4	29.93	760.2	48.0	8.9	70	sw.	.....	.....	6	.....	2	.....	.....	.....	.....	squally.....	**The Staff.**
Fort Napier, Natal	27.52	699.0	29.74	755.4	76.0	24.4	76	calm	.....	.....	0	.....	9	.....	.....	.....	.....	overcast.....	**Corpl. F. Milner, A. H. C.**
Freetown	29.03	752.6	29.86	758.4	88.0	31.1	88	sw.	.....	.....	1	.....	4	.....	.....	.....	.....	.....	**Sgt. J. Robinson.**
Galway	29.60	751.8	29.64	752.8	40	4.4	82	sw.	.....	.....	3	.....	9	.....	.....	0.28	7.1	threatening.	**Wm. Ryan.**
Gibraltar, Mediterranean	30.36	771.1	30.42	772.7	61.0	16.1	88	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky.....	**Sgt. F. Norris, A. H.C.**
Glasgow, Observatory	29.40	746.7	29.61	752.1	40.4	4.7	87	s.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	**Harry Urquhart, Asst.**
Greenwich, Royal Obs'y	29.78	756.4	29.95	760.7	52.2	11.2	76	ssw.	.....	.....	4	.....	8	.....	.....	.....	.....	showery.....	**The Staff.**
Guernsey	29.62	752.3	29.92	760.0	46.5	8.1	92	wsw.	.....	.....	3	.....	8	.....	.....	.....	.....	showery.....	**A. Collenette, F. M. S.**
Kew, Observatory	29.91	759.7	29.95	760.7	51.0	10.9	78	s.	20	8.9	.....	.....	9	.....	.....	.....	.....	threatening.	**The Staff.**
Leicester, Museum	29.58	751.3	29.84	757.9	49.0	9.4	81	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	d. clouds.....	**J. C. Smith.**
Malta, Mediterranean	30.14	765.5	30.22	767.6	57.0	13.9	84	nw.	.....	.....	2	.....	7	.....	.....	blank	blank	d. clouds.....	**Corpl. Keene, A. H. C.**
Nassau, Bahamas	30.11	764.8	30.16	766.1	76.0	24.4	72	se.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds.....	**C. S. Duncombe.**
Oscott, St. Mary's College	29.31	744.5	29.84	757.9	42.6	5.9	93	ssw.	.....	.....	6	.....	10	.....	.....	.....	.....	raining.....	**Rev. Jas. W. Browne.**
Oxford, Radcliffe Obs'y	29.66	753.4	29.89	759.2	50.9	10.5	75	ssw.	.....	.....	5	.....	10	.....	.....	.....	.....	showery.....	**The Staff.**
Plymouth	29.84	757.9	29.91	759.7	48.7	9.3	81	wsw.	.....	.....	5	.....	2	.....	.....	.....	.....	d. clouds.....	**John Merrifield.**
Sandwick Manse, Orkneys	29.46	748.3	29.50	750.8	41.2	5.1	81	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	d. clouds.....	**Rev. C. Clouston, L.L.D.**
Scutari Cemetery, Turkey	30.31	769.9	30.38	771.6	36.4	2.4	90	n.	.....	.....	2	.....	10	.....	.....	.....	.....	sleeting.....	**W. H. Lyne.**
Sheffield	29.55	750.6	29.83	757.7	48.1	8.9	87	sw.	.....	.....	1	.....	10	.....	.....	0.09	2.3	overcast.....	**W. F. Cooper.**
Silloth Rectory	29.60	751.8	29.63	752.6	44.7	7.1	74	s.	.....	.....	4	.....	8	.....	.....	0.050	1.3	d. clouds.....	**Rev. F. Redford, M. A.**
Stonyhurst, Observatory	.....	.....	29.78	756.4	45.1	7.3	80	s.	30	13.4	.....	.....	5	.....	.....	blank	blank	d. clouds.....	**Rev. S. J. Perry.**
Stratfield Turgiss	29.70	754.4	29.92	760.0	51.8	11.0	80	sw.	.....	.....	2	.....	8	.....	.....	.....	.....	raining.....	**Rev. C. H. Griffiths, F.M.S.**
Truro, Royal Institution	29.95	760.7	30.00	762.0	53	11.7	93	w.	.....	.....	4	.....	6	.....	.....	.....	.....	d. clouds.....	**W. Newcombe.**
Valencia, Observatory	29.79	756.7	29.81	757.2	42.6	5.9	73	w.	28	12.5	.....	.....	10	.....	.....	blank	blank	gloomy.....	**The Met'g'l Office.**
Sub-series.																			
Gozo, Episcopal Seminary	29.78	756.4	30.17	766.3	54.7	12.6	59	nw.	9.3	4.2	.....	0	4 cn	.....	nw.	0	0	fair.....	**Rev. Ph. Borrello.**
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	—10	—23.3	.....	calm	0	0	.....	0	0	.....	.....	0	0	blue sky.....	**Hon. J. Ferguson.**
Charlottetown, P. E. Island	30.38	771.6	30.43	772.9	— 5	—20.6	100	calm	0	0	.....	0	0	.....	.....	0.065	1.7	clear.....	**H. J. Cundall, C. E.**
Chatham, N. B*	30.42	772.7	30.50	774.7	—20	—28.9	100	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	**G. A. Blair**
Cornwall	29.90	759.4	30.11	764.8	7.2	—13.8	97	ne.	.....	.....	6	.....	10	.....	.....	0	0	overcast.....	**Jas. Smith, M. A.**
Dalhousie	30.43	772.9	30.49	774.4	—13.0	—25.0	.....	w.	.....	.....	1	0	0	.....	.....	0	0	blue sky.....	**H. A. Johnson.**
Father Point, Quebec*	30.49	774.4	30.51	774.9	— 4	—20.0	83	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	light snow...	**J. McWilliams.**
Fort Garry, Manitoba*	28.96	735.6	29.88	758.9	0	—17.8	100	ne.	10	4.5	.....	.....	10 n	.....	ne.	inap.	inap.	heavy snow	**James Stewart.**
Fredericton	30.44	773.2	30.52	775.2	—22.9	—30.5	100	ne.	1	0.4	.....	0	0	.....	.....	0	0	blue sky.....	**Prof. Harrison, L. L. D.**
Granton	28.68	728.5	29.83	757.7	30.0	— 1.1	100	se.	2	0.9	.....	.....	10 n	.....	.....	0.25	6.3	overcast.....	**Jas. Grant.**
Halifax, N. S*	30.29	769.4	30.44	773.2	1	—17.2	100	n.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	**A. Allison.**
Hamilton	29.44	747.8	29.83	757.7	33.7	0.9	97	ne.	.....	.....	1	.....	10	.....	.....	0	0	misty.....	**Geo. Dickson, B. A.**
Kingston, Ontario*	29.65	753.1	30.01	762.2	15	— 9.4	96	ne.	11	4.9	.....	.....	10 s	.....	.....	0.02	0.5	cloudy.....	**A. P. Knight, M. A.**
Montreal, Quebec*	30.01	762.2	30.24	768.1	4	—15.6	72	ne.	8	3.6	.....	.....	10 ks	.....	w.	0	0	cloudy.....	**C. H. McLeod, C. E.**
Ottawa	29.85	758.2	30.12	765.0	10.5	—11.9	84	e.	.....	.....	1	.....	10 s	.....	.....	0	0	overcast.....	**A. McGill, M. A.**
Parry Sound, Ontario*	29.16	740.7	29.80	759.2	24	— 4.4	88	se.	16	7.2	.....	.....	10 n	.....	se.	inap.	inap.	cloudy.....	**Rev. R. Mosley.**
Peterboro	29.18	741.2	29.98	761.5	18.0	— 7.4	84	e.	.....	.....	3	.....	10 n	.....	.....	0	0	overcast.....	**J. Dixon, B. A.**
Port Dover, Ontario	29.12	739.6	29.84	757.9	30	— 1.1	100	s.	3	1.3	.....	.....	fg.	.....	.....	0.38	9.7	foggy.....	**H. Morgan.**
Port Stanley, Ontario	29.18	741.2	29.85	758.2	32	0.0	90	calm	0	0	.....	.....	fg.	.....	.....	0.28	7.1	foggy.....	**M. Payne.**
Quebec, Quebec*	30.08	764.0	30.44	773.2	0	—17.8	68	ne.	.....	.....	5	5 c	0	.....	.....	0.05	1.3	fair.....	**Capt. Ashe, R. N**
Rockliffe, Ontario*	29.55	750.6	30.05	763.3	16	— 8.9	91	se.	12	5.4	.....	.....	10 n	.....	.....	inap.	inap.	light snow...	**W. H. McIntyre.**
Saugeen, Ontario*	29.05	737.9	29.79	756.7	30	— 1.1	96	se.	14	6.3	.....	.....	10 ks	.....	.....	0.02	0.5	cloudy.....	
St. Andrews, N. B	30.38	771.6	30.44	773.2	3	—16.1	73	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	
St. John, N. B	30.29	769.4	30.48	774.2	— 1	—18.3	100	e.	6	2.7	.....	0	0	.....	.....	0	0	blue sky.....	**G. Murdock, C. E.**
St. Pierre, N. F	.....	.....	30.00	762.0	1.4	—17.4	.....	nw.	.....	.....	7	.....	.....	.....	.....	0	0	.....	**The Commandant**
Stratford	28.50	723.9	29.83	757.7	29.0	— 1.7	99	se.	4	1.8	.....	.....	10	.....	.....	0.152	3.9	foggy.....	**C. J. Macgregor, M. A.**
Sydney, C. B*	30.28	769.1	30.35	770.9	— 7	—21.7	82	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	**T. C. Hill, C. E.**
Toronto, Ontario*	29.49	749.0	29.89	759.2	29	— 1.7	92	ne.	25	11.2	.....	.....	10 n	.....	.....	0.05	1.3	cloudy.....	**Magnetic Observatory.**
Windsor	30.31	769.9	30.42	772.7	— 1.5	—18.6	84	n.	4	1.8	.....	0	3 ks	.....	.....	0	0	fine.....	**Prof. W. H. Butler, M. A**
Woodstock	28.77	730.7	29.87	758.7	30.7	— 0.7	93	ne.	1.0	0.4	.....	.....	10 s	.....	.....	1.0	25.	foggy.....	**Prof. Wolverton, M.A.**
Yarmouth, N. S*	30.32	770.1	30.39	771.9	9	—12.8	63	e.	4	1.8	.....	8 k	0	w.	.....	0	0	fair.....	**Lt. F. E. Wilmot, R. N.**

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
CAPE COLONY.																			
Cape St. Francis Lt. House	29.98	761.5	30.01	762.2	74.0	23.3	84	sw.	9.8	4.4	.....	0	3 k	.....	.....	0	0	clear	John Duthie.
Springbok Fontein	27.88	708.1	.....	.....	80	26.7	62	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. T. Enstace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	24.30	617.1	.....	.....	31.6	— 0.2	.....	calm	.....	.....	0	.....	fg	.....	.....	.....	.....	foggy	
Tchang-kia-tchouang	30.11	764.7	30.22	767.5	28.4	— 2.0	100	n.	.....	.....	1	.....	10	.....	.....	0.732	18.6	covered	R. P. Desurmont, S.J.
Zi-Ka-Wei, near Shanghai	30.01	762.2	30.03	762.8	41.9	5.5	98	n.	3.8	1.7	.....	.....	10	.....	.....	0.004	0.1	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.24	768.1	30.29	769.3	33.8	1.0	96	sse.	9	4	.....	.....	10	.....	.....	.....	.....	foggy	Oversergent Fischer.
Fanoe	30.12	765.0	30.14	765.5	40.3	4.6	84	sse.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	Overloerer Lauridsen.
Godthaab, Greenland	28.95	735.2	28.99	736.3	17.6	— 8.0	85	nne.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	28.80	731.4	28.82	731.9	10.0	—12.2	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.31	744.5	29.36	745.7	— 4.7	—20.4	.....	calm	.....	.....	0	.....	4	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.08	713.2	28.12	714.3	38.1	3.4	92	se.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	A. O. Thoriacius.
Thorshavn	29.35	745.5	29.39	746.4	41.7	5.4	74	sw.	29	13	.....	.....	3	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	30.02	762.5	30.11	764.8	37.8	3.2	98	se.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	Lperer Oesterbol.
Upernavik, Greenland	29.56	750.9	29.61	752.1	—14.4	—25.8	.....	e.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	
FRENCH.																			
Agen, Normal School	29.73	755.2	30.42	772.6	44.6	7	86	se.	.....	.....	1	ck	n	.....	.....	0	0	.....	M. Labroue, Director.
Alençon, Normal School	29.59	751.6	30.14	765.6	48.6	9.2	92	s.	.....	.....	1	.....	n	n.	n.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	29.80	756.8	30.06	763.4	48.0	8.9	94	s.	.....	.....	1	.....	.....	.....	.....	0.220	5.6	.....	M. Fénéon, Commandt.
Avignon, Normal School	30.26	768.7	30.34	770.7	52.5	11.4	67	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.67	753.7	30.24	768.1	50.0	10.0	62	s.	.....	.....	1	0	8 kn	.....	s.	0.020	0.5	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.89	759.1	30.16	766.0	50.7	10.4	80	s.	.....	.....	1	.....	8	.....	sw.	0.094	2.4	very cloudy	M. Frère Eugène Marié
Besançon, Normal School	29.32	744.8	30.23	767.9	52.5	11.4	80	ne.	.....	.....	1	.....	k	.....	sw.	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	30.01	762.2	30.28	769.0	47.5	8.6	82	sse.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.69	754.2	30.26	768.5	50.4	10.2	53	ese.	.....	.....	1	.....	8	.....	ese.	0	0	very cloudy	M. Malet, Director.
Brest, Naval Observatory	29.84	757.8	30.08	764.0	51.8	11.0	84	w.	.....	.....	2	.....	4	.....	w.	0.315	8.0	.....	M. de Kermaïdo, Dir.
Caen, Normal School	29.99	761.7	30.06	763.6	52.2	11.2	86	nnw.	.....	.....	2	.....	5	.....	n.	0.016	0.4	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.89	759.1	30.21	767.4	44.6	7.0	93	ssw.	.....	.....	2	.....	10	.....	.....	0.236	6.0	covered	M. Jadot, Director.
Charleville, Normal School	29.70	754.4	30.22	767.6	47.5	8.6	75	wsw.	.....	.....	1	.....	10	.....	.....	0.04	1.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.87	733.3	30.23	767.9	54.1	12.3	61	nnw	.....	.....	1	.....	8	.....	.....	0	0	light fog	M. Allnard, Director.
Cluny, Normal School	29.42	747.3	30.28	769.2	51.8	11	63	w.	.....	.....	1	.....	9	.....	w.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.40	746.8	30.28	769.1	48.7	9.3	73	w.	.....	.....	1	5 cs	.....	w.	w.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.81	706.3	30.41	772.3	47.3	8.5	80	calm	.....	.....	0	.....	1	.....	.....	0	0	.....	M. Jeanjirard, Director.
Gréasque, du Rhone	29.19	741.4	30.32	770.1	57.0	13.9	40	s.	.....	.....	2	.....	1	.....	s.	0	0	.....	M. Klun, Director.
Grenoble, Normal School	29.55	750.5	30.34	770.7	50.4	10.2	62	ese.	.....	.....	1	c	0	.....	.....	0	0	.....	M. Ablard, Director.
Guéret	28.65	727.7	30.25	768.4	41.9	5.5	94	sw.	.....	.....	3	c	0	sw.	.....	0.59	15.	.....	M. Delorme, Dir.
Lamballe, Normal School	29.88	758.9	30.15	765.9	48.2	9	76	sw.	.....	.....	2	.....	10	.....	sw.	0.134	3.4	covered	M. Ollitrault, Director.
Lescar, Normal School	29.65	753.1	30.22	767.5	59.7	15.4	53	nnw.	.....	.....	1	.....	5	.....	.....	0.079	2.0	cloudy	M. Chanvin, Director.
Lorient, Naval Observatory	30.03	762.7	30.13	765.3	51.1	10.6	86	wsw.	.....	.....	2	.....	10	.....	sw.	0.012	0.3	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.25	742 9	30.33	770.4	49.3	9.6	73	sse.	.....	.....	1	8 ck	0	.....	.....	0	0	very cloudy	M. André, Director.
Mans, Normal School	29.85	758.1	30.16	766.1	48.9	9.4	91	nw.	.....	.....	3	.....	10	.....	.....	0.087	2.2	covered	M. Piboëu, Director.
Marseille, Observatory	30.05	763.3	30.32	770.2	57.9	14.4	67	ssw.	.....	.....	0.1	.....	4	.....	sw.	0	0	.....	M. Stephan, Director.
Montlouis	25.06	636.5	29.90	759.5	40.1	4.5	79	w.	11.2	5.0	.....	.....	7	w.	.....	0	0	clear	M. Carré for Dr. Fines.
Montpellier, Normal School	30.14	765 5	30.27	768 9	53.6	12	72	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	M. Galzin, Director.
Nancy, Normal School	29.43	747.6	30.23	767.8	47.8	8.8	84	sse.	.....	.....	1	.....	kn	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	30.03	762.7	30.19	766.8	55.8	13.2	75	ssw.	.....	.....	1-2	.....	10 n	.....	sw.	0.067	1.7	.....	M. Larocque, Director.
Perpignan, Observatory	30.20	767.1	30.32	770 0	53.8	12.1	75	se.	9.4	4.2	.....	.....	10	.....	se	0.031	0.8	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.36	542.4	.....	.....	32.0	0.0	.....	w.	.....	.....	1	.....	.....	.....	w.	0.039	1.0	.....	M. Vanssenat, Director.
Privas, Normal School	29.25	743 0	30.32	770.4	54.7	12.6	58	calm	.....	.....	0	.....	1	ne.	ne.	0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.33	643.3	.....	.....	39.4	4.1	66	ssw.	.....	.....	2	.....	8	.....	.....	0	0	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.21	767.4	30.24	768.2	50.0	10.0	86	sse.	.....	.....	2	.....	10	.....	s.	0.08	2.	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.92	759.9	30.13	765.4	51.8	11	93	sw.	.....	.....	1	.....	5	.....	ne.	0.126	3.2	cloudy	M. Brotier, Director.
Rodez, Normal School	28.13	714.6	30.32	770.1	50.4	10.2	76	se.	.....	.....	1	.....	0	.....	.....	0.220	5.6	clear	M. Seger, Director.
Rouen, Normal School	30.09	764.3	30.14	765 5	50.4	10.2	84	se.	.....	.....	1	.....	10	s.	.....	0.16	4.	covered	M. Mouillot.
Saint Lô	.....	.....	.....	.....	54.0	12.2	72	w.	.....	.....	2	.....	5	.....	w.	0.059	1.5	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	30.02	762.5	30.19	766.7	47.5	8.6	75	sSW.	.....	.....	2	.....	10	.....	sw.	0.075	1.9	.....	M. Renou, Director.
Toulouse, Observatory	29.57	751.0	30.30	769.5	52.7	11.5	72	sse.	.....	.....	3	.....	5	w.	.....	0.059	1.5	cloudy	M. Baillaud, Director.
Tours	30.01	762.2	30.19	766.7	51.1	10.6	80	se.	.....	.....	1	.....	10	.....	sw.	0.071	1.8	raining	M. de Tastes.
Versailles, Observatory	29.67	753.7	30.17	766.2	47.1	8.4	81	sw.	.....	.....	3	.....	.....	.....	.....	0.159	3.8	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.13	765 3	30.28	769.1	61.5	16.4	50	w.	19.7	8.8	.....	o	9 k	.....	sw.	o	o	.....	M. Cartier, Director.
GERMAN.																			
Ansbach	28 88	733.6	30.42	772.6	33.1	0.6	86	s.	.....	.....	2	.....	10	s.	.....	0	0	.....	Prof. Jnedl.
Bamberg	29.48	748.8	30.33	770.4	35.6	2.0	84	s.	.....	.....	1	.....	10	.....	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	30.20	767.0	30.35	770.8	41.9	5.5	72	se.	.....	.....	2	4 ck	0	nw.	.....	0	0	.....	Meteorological Institute.
Breslau	29.86	758.4	30.40	772.1	40.8	4.9	52	se.	.....	.....	2	.....	1	.....	.....	0	0	.....	Royal University Obs'y,
Carlsruhe	29.89	759.2	30.37	771.4	43.2	6.2	73	sse.	.....	.....	1	.....	10	nw.	.....	0.079	2.0	.....	Albert Senz.
Cassel	29.51	749.6	30.22	767.7	39.9	4.4	83	s.	.....	.....	4	.....	8	sw.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.95	760.7	30.33	770.4	41.4	5.2	78	s.	.....	.....	1	.....	10	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.88	733.6	30.37	771.5	41.4	5.2	81	w.	.....	.....	3	.....	5	n.	.....	0.264	6.7	.....	Wilhelm, Chief Tel.
Hamburg	30.17	766.2	30.26	768.5	38.8	3.8	88	ese.	.....	.....	3	.....	10	.....	.....	0.008	0.2	hazy	E. Preller.
Kiel	30.21	767.2	30.22	767.6	39.6	4.2	87	sse.	.....	.....	2	.....	10	.....	.....	0.008	0.2	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.90	759 5	30.34	770.6	42.4	5.8	73	s.	.....	.....	2	.....	9	.....	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	30.10	764.5	30.29	769.5	41.7	5.4	83	s.	.....	.....	2	.....	10	se.	.....	0	0	foggy	Dr. Assmann.
Memel	30.47	774.0	30.52	775.2	32.7	0.4	85	se.	.....	.....	4	o	o	.....	.....	.....	.....	clear	Issermann.
Munich	28.49	723.6	30.37	771.5	38.1	3.4	82	sw.	.....	.....	1	.....	5	s.	.....	0	0	.....	Central Station.
Neufahrwasser	30.44	773.2	30.46	773.6	34.5	1.4	74	se.	.....	.....	2	.....	8	ssw.	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.76	756.0	30.30	769.5	41.4	5.2	81	sse.	.....	.....	1	.....	7	.....	.....	0	0	.....	Dicknether.
Stuttgart	29.34	745.3	30.27	768.8	43.2	6.2	82	ne.	.....	.....	1	.....	10	.....	.....	0.008	0.2	.....	Prof. Dr. Schoder.
Wustrow	30.30	769.6	30.32	770.2	36.1	2.3	93	se.	.....	.....	1	.....	10	.....	.....	0.020	0.5	foggy	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.93	760.2	30.33	770.3	47.1	8.4	.....	ne.	.....	.....	2.5	.....	9	.....	.....	0	0	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.94	760.3	29.99	761.6	77.7	25.4	59	wsw.	17.0	7.6	.....	.....	2	.....	.....	0	0	d. clouds	
Deesa	29.46	748.3	29.93	760.3	85.1	29.5	7	sw.	5.0	2.2	.....	.....	0	.....	.....	0	c	hazy	
Bombay	29.86	758.4	29.90	759.4	80.5	26.9	70	nw.	12.0	5.4	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.02	711.8	29.85	758.1	88.4	31.3	17	nnw.	7.0	3.1	.....	.....	1	.....	.....	0	0	d. clouds	
Belgaum	27.34	694.4	29.85	758.1	83.0	28.3	37	wsw.	6.0	2.7	.....	.....	1	sw.	.....	0	0	d. clouds	
Lahore	29.20	741.5	29.96	761.1	64.6	18.1	44	calm	0	0	.....	.....	6	.....	.....	0	0	d. clouds	
Roorkee	28.02	711.6	29.94	760.5	67.8	19.9	30	w.	4.0	1.8	.....	.....	0	.....	.....	0	0	.....	
Agra	29.38	746.3	29.96	761.0	74.0	23.3	26	nw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.86	733.0	29.90	759.3	85.3	29.6	22	calm	3.0	1.3	.....	.....	3	w.	.....	0	0	d. clouds	
Jubbulpore	28.60	726 6	29.98	761.4	79.3	24.6	19	ne.	6.0	2.7	.....	.....	6	ne.	.....	0	0	d. clouds	
Lucknow	29.57	751.1	29.96	761.1	63.3	17.4	36	wnw.	3.0	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.63	752.6	29.95	760.8	66.8	19.3	41	ssw.	4.0	1.8	.....	.....	2	.....	.....	0	0	d. clouds	
Patna	29.76	755.9	29.95	760.8	67.8	19.9	33	w.	5.0	2.3	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.90	708.7	29.97	761.3	64.2	17.9	26	w.	10.4	4.6	.....	.....	0	.....	.....	0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.86	758.5	29.94	760 6	80.0	26.7	46	se.	3.0	1.3			1			0	0	blue sky	
Calcutta, Alipore	29.93	760.2	29.95	760.7	73.2	22.9	37	calm	0	0			0			0	0	blue sky	
Dhubri	29.82	757.3	29.94	760.4	68.3	20.2	42	ssw.	1.9	0.8			0			0	0	blue sky	
Chittagong	29.86	758.5	29.95	760.8	70.6	21.4	48	w.	3.6	1.6			1			0	0	blue sky	
Sibsagar	29.63	752.6	29.98	761.5	64.0	17.8	77	ne.	2.0	0.9			0			0	0	blue sky	
Jeypore	28.51	724.0	29.97	761.2	74.6	23.7	43	nw.	4.3	1.9			2	nw.		0	0	d. clouds	
Bellary	28.40	721.3			90.0	32.2	21	se.	4	1.8			0			0	0	blue sky	
Trichinopoly	29.70	754.4			87.5	30.8	38	ene.	1	0.4			0			0	0	blue sky	
ITALIAN.																			
Udine	29.91	759.8	30.34	770.6	50.7	10.4	51	se.	2.5	1.1			1	s.		0	0		Prof. Giovanni Clodig.
Milan	29.82	757.5	30.36	771.1	50.4	10.2	70	sw.	4.3	1.9			0			0.063	1.6		Prof. Schiapparelli.
Padua	30.21	767.4	30.33	770.3	50.9	10.5	73	s.	0.7	0.3			4			0.028	0.7		Prof. Dott. Lorenzoni.
Moncalieri	29.39	746.4	30.33	770.3	40.6	8.1	78	ne.	4.3	1.9			0			0	0		Prof. F. F. Denza.
Genoa	30.13	765.2	30.32	770.2	50.3	13.5	47	n.	4.9	2.2			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.40	721.4	30.41	772.3	43.3	6.3	72	sw.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	30.31	769.8	30.36	771.1	48.6	9.2	89	n.	1.8	0.8			10			0.425	10.8		Prof. Luigi Guidi.
Florence	30.04	763.0	30.30	769.6	56.5	13.6	55	ne.			2		0			0.386	9.8		Prof. Costantino Pittei.
Leghorn	30.17	766.2	30.25	768.4	55.0	12.8	66	nne.	1.3	0.6			2			0	0		Prof. P. Monte.
Rome	30.06	763.4	30.23	767.9	57.2	14.0	45	nne.	0.7	0.3			1			0.276	7.0		Prof. P. Tachini.
Lecce	29.98	761.5	30.24	768.1	54.1	12.3	78	s.	17.4	7.8			10	se.		0	0		Prof. C. de Giorgi.
Cosenza	29.28	743.8	30.19	766.9	51.1	10.6	75	nw.	2.5	1.1			10	w.		0.476	12.1		Prof. D. Conti.
Cagliari	30.08	764.0	30.28	769.0	55.8	13.2	63	nw.			2		0			0.465	11.8		Prof. A. Pacinotti.
Palermo	29.97	761.3	30.23	767.8	55.0	12.8	59	wnw.	1.8	0.8			10	nw'		0.354	9.0		Prof. G. Caccintore.
Syracuse	30.10	764.5	30.14	765.6	54.9	12.7	67	ne.	4.9	2.2			10	nne.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																0.350	8.9		
Naples, S. R	29.69	754.1	30.22	767.7	54.9	12.7	63	n.	7.4	3.3			5	e.		0.035	0.9		Prof. F. Brioschi.
Stelvio	22.27	565.6			23.5	— 4.7	63	se.			1		0			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.32	567.0			28.0	— 2.2	56	w.			2		0			1.181	30.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.27	768.8	30.30	769.6	15.9	— 8.9	100	calm			0	0	0			0	0	clear	H. Hattori.
Awomori	30.30	769.6	30.34	770.6	14.8	— 9.6	48	ssw.	5.1	2.3		0	0			0	0	clear	K. Ogawa.
Hakodate	30.32	770.1	30.33	770.3	24.0	— 4.4	94	ne.	4.8	2.1		0	0			0	0	clear	
Hamamatsu	30.17	766.3	30.20	767.0	38.9	3.8	92	e.			4		10 n			0.303	7.7	raining	
Kagoshima	29.95	760.8	29.96	761.1	58.3	14.6	97	calm			0		10 s		w.	0.768	19.5	overcast	G. Miyanonasa.
Kioto	29.93	760.2	30.11	764.8	42.0	5.6	86	ene.	5.3	2.3			10 n			0.504	12.8	light rain	M. Tojima.
Kochi	29.94	760.5	29.96	761.0	51.4	10.8	91	nw.	9.5	4.2			10		w.	0.587	14.9	overcast	K. Kusunose.
Miasaka	29.93	760.2	29.96	760.9	59.1	15.1	94	calm			0		10s;ks		w.	0.358	9.1	covered	K. Masusaki.
Nagasaki, I. M. Obs'y	29.75	755.7	29.96	760.9	53.0	11.7	95	nw.	0.6	0.3		4 c	6 s	wnw.		0.080	2.0	overcast	S. Takehayashi.
Niigata	30.17	766.3	30.20	767.1	33.9	1.1	75	e.	1.2	0.5			10 ck		e.	0.100	2.5	covered	M. Morita.
Nobiru	30.31	769.9	30.33	770.3	35.4	1.9	70	se.	14.8	6.6		1 cs	0			0.095	2.4	clear	H. Midzushima.
Numazu	30.28	769.0	30.31	769.9	30.0	2.2	86	nne.			4		10 n			0.940	24.1	raining	R. Kaneda.
Osaka	30.03	762.8	30.05	763.2	41.7	5.4	92	ne.	31.0	13.9			10 n			0.595	15.1	light rain	H. Omura.
Sakai	29.98	761.6	29.99	761.9	44.9	7.2	95	w.			2		10 s		w.	0.240	6.1	cloudy	K. Yamawchi.
Sapporo					23.5	— 4.7	86	calm	0	0			5			0.005	0.1	fair	
Tokei Obs'y, Yeddo	30.26	768.6	30.34	770.6	36.7	2.6	71	calm	0	0			10 n			0.302	7.7	showing	The Staff.
Waknyama	29.94	760.6	30.00	762.0	43.1	6.2	94	n.	1.5	0.7			10 n		s.	0.465	11.8	raining	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.68	753.9	29.86	758.4	80.3	26.8	77	ene.	18.0	8.0		0	6 ks;kf		e.	0.40	10.2	fair	Oliver & Figon.
MEXICAN.																			
Altata					56	13.3	87	nw.										clear	H. Diaz Pena.
Guanajuato	23.61	599.6	29.83	757.0	57.0	13.9	77	calm	0	0		0	0			0	0	light haze	Prof. Vicente Fernandez.
Leon	24.23	615.4	29.95	760.7	52.3	11.3	81	nnw.			1	2 c	0			0	0	clear	Prof. M. Leal.
Mazatlan	29.62	752.5	29.89	759.1	64.0	17.8	73	nnw.	0.9	0.4		0	0			0	0	light haze	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	587.1	30.27	768.8	47.3	8.5	52	calm	0	0		0	0			0	0	fine	The Staff.
Morelia	24.25	616.0	30.22	767.5	53.5	12.0	72	se.			1	0	0			0	0	clear	M. Tena, M. D.
Pabellon	23.86	606.1	29.93	760.3	52.5	11.4	55	w.			1	0	0			0	0	clear	
Puebla, Catholic Institute	23.39	593.7	30.25	768.4	45.3	7.4	63	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
Zacatecas	22.63	570.9	30.10	764.6	53.6	12.0	50	sw.	4.6	2.1		0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.11	764.8	30.11	764.8	45.9	7.7		s.			4					0.146	3.7		
Groningen	30.08	764.0	30.13	765.4	44.2	6.8		s.			4					0.063	1.6		
Helder																0.020	0.5		
Hellevoetsluis	30.11	764.7	30.11	764.7	46.8	8.2	89	ssw.			2					0.205	5.2		
Utrecht	30.10	764.5	30.15	765.7	45.1	7.3	94	s.			2		10			0.059	1.5	dull	H. van der Brink
Sub-series.																			
Batavia, Java	29.85	758.1			77.4	25.2	92	nnw.	0.5	0.2			9			0.87	22.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.88	758.9	29.94	760.5	41.0	5.0	87	s.	13	6			10			0.189	4.8	raining	
Brono	29.94	760.5	29.98	761.5	39.4	4.1	54	sse			2		8			0	0		
Christiania	30.13	765.3	30.28	769.2	32.2	0.1	87	sse.	11	5			10			0.004	0.1		
Gjesvær	30.01	762.3	30.04	762.9	34.5	1.4		ese.			2		0						
Lodingen	29.99	761.7	30.04	762.9	32.0	0.0	78	calm			0		9			0	0		
PORTUGUESE.																			
Angra, Azores	30.16	766.1	30.32	770.1	57.2	14.0	74	s.	13.0	5.8			6			0.230	6.0		Dr. J. A. Sampaio.
Campo Major	29.37	746.0	30.40	772.1	52.9	11.0	71	s.	0.7	0.3			8			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.40	772.1	30.49	774 4	64.4	18.0	53	se.	4.3	1.9			1			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.00	762.2	30.40	772.6	54.0	12.2	93	nnw.	10.5	4.7			10			0.118	3.0		The Staff.
Ponta Delgada, Azores	30.33	770.3	30.40	772.1	59.0	15.0	72	s.	6.9	3.1			3	wnw.		0	0		
Saint Paul de Loando	29.71	754.7	29.91	759.7	82.2	27.9	79	nw.	0.7	0.3			10			0	0		
Serra da Estrella	25.52	648.2	30.39	771.8	40.1	4.5	100	wsw.	25.5	11.4			10			0.661	16.8	rain & fog	
RUSSIAN.																			
Akmolinski	29.09	738.8	30.32	770.0	— 6.0	—21.1	86	wsw.	16	7			10 n			0.010	0.4		Major K. Lasarew.
Archangel	30.43	773.0	30.45	773.5	20.8	— 6.2	79	ssw.	13	6			10			0	0		Capt. Sselliwerstow.
Ashurada	30.57	776.4	30.47	774.0	37.2	2.9	82	wsw.	4	2			10 n			0.098	2.5		
Astrakhan	30.89	784.7	30.81	782.6	21.9	— 5.6	33	se.	7	3			0			0	0		Capt. Wisganow.
Baku	30.04	778.3	30.60	777.1	29.1	— 1.6	76	nne.	18	8		0	7 k			0	0		
Barnaul	30.09	764.2	30.69	779.5	—24.2	—31.2	77	sw.	4	2			1			0.008	0.2	light clouds	Meteorological Obs'y.
Bielosersk	30.21	767.2	30.71	780.1	22.8	— 5.1	56	sse.	4	2		0	0			0	0		
Dorpat	30.40	772.1	30.66	778.8	25.2	— 3.8	66	s.	4	2		2 cs	0			0	0	light clouds	Observatory.
Ekaterinburg	29.44	747.7	30.48	774.3	18.0	— 7.8	87	w.	11	5		0	1 s			0	0		Meteorological Obs'y.
Elisawetgrad	30.26	768.7	30.77	781.5	9.1	—12.7	78	ne.	16	7		0	3 s			0	0		
Irkutsk	28.03	727.1	30.47	773 9	— 0.4	—18.0	87	calm			0		10			0.100	2.7		
Kasalinsk	30.06	763.6	30.24	768.1	0.8	—14.0	59	wsw.	13	6			10 k						
Kasan	30.47	773.8	30.70	781.4	13.8	—10.1	72	wsw.	2	1		0	1			0.004	0.1		Observatory.
Kem	30.41	772.4	30.46	773.7	20.1	— 3.3	76	wsw.	13	6			10 k			0	0	heavy cld's.	
Kertch	30.43	772.8	30.45	773.3	25.9	— 3.4	76	ene.	7	3		0	7 n			0	0		Lagorio & Sastyrez.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Kieff	30.09	764.3	30.81	782.5	8.4	—13.1	92	ne.	7	3	.....	c	8 ks;n	.....	.....	inap.	inap.	snowing	Observatory.
Koslov	30.32	770.1	30.91	785.2	3.7	—15.7	94	n.	2	1	.....	.....	0	.....	.....	0	0	.....	
Liban	30.47	774.0	30.59	774.6	32.2	0.1	54	se.	9	4	.....	.....	0	.....	.....	0	0	.....	E. Quaas.
Lugan	30.55	775.9	30.76	781.2	12.7	—10.7	54	ene.	22	10	.....	.....	5	.....	.....	0	0	light clouds.	Meteorological Obs'y.
Moscow	30.35	770.9	30.89	784.6	14.7	— 9.6	55	calm	0	0	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	30.55	776.0	30.63	777.9	16.5	— 8.6	82	ne.	22	10	.....	.....	10 n	.....	.....	0	0	light clouds.	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.12	765.0	30.21	767.2	— 7.6	—22.0	62	w.	2	1	.....	.....	10	.....	.....	0	0	.....	Iwanow.
Pekin, China	30.04	763.0	30.19	766.8	31 1	— 0.5	98	calm	0	0	.....	.....	10 n	.....	.....	0.083	2.1	snowing	Physical Observatory.
Petro-Alexandrovsk	30.36	771.2	30.76	781.3	10.2	—12.1	45	ne.	2	1	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	30.37	771.5	30.59	776.9	21.6	— 5.8	69	calm	0	0	.....	3 ck	0	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	30.20	767.0	30.74	780.9	16.5	— 8.6	70	se.	16	7	.....	0	0	.....	.....	0	0	.....	
Poti	30.27	768.8	30.29	769.3	45.7	7.6	80	se.	4	2	.....	.....	10 n	.....	.....	0	0	.....	
St. Petersburg	30.63	777.9	30.64	778.3	20.7	— 6.3	58	sse.	9	4	.....	1 cs	0	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.83	706.8	30.52	775.3	15.8	— 9.0	54	calm	0	0	.....	3 cs	0	.....	.....	.....	.....	.....	
Semipalatinsk	29.87	758.8	30.65	778.4	—21.3	—29.6	80	e.	20	9	.....	.....	10	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	30.17	766.2	30.40	772.2	37.6	3.1	76	nw.	4	2	.....	.....	10 n	.....	.....	0	0	.....	
Staroi Bykhov	30.41	772.4	30.92	785.4	11.7	—11.3	58	se.	9	4	.....	3 c	0	.....	.....	0	0	light clouds.	
Tashkend	28.84	732.4	30.73	780.6	3.9	—15.6	75	nw.	9	4	.....	0	0	.....	.....	0.157	4.0	.....	Terch, A. M.
Tiflis	29.07	738.4	30.59	777 0	29.1	— 1.6	78	e.	7	3	.....	.....	10	.....	.....	0.142	3.6	.....	Physical Observatory.
Vernoe	27.84	707.1	30.71	779.9	— 4.9	—20.5	80	n.	4	2	.....	0	0	.....	.....	.....	.....	.....	
Viatka	29.98	761.5	30.67	779.0	17.8	— 7.9	.....	w.	4	2	.....	.....	10	.....	.....	0	0	.....	
Vladivostock	30.22	767.5	30.28	769.2	18.7	— 7.4	60	n.	7	3	.....	.....	5 k	.....	.....	0.004	0.1	.....	
Warsaw	30.06	763.6	30.51	775.0	31.8	— 0.1	49	s.	13	6	.....	5 cs	0	.....	.....	0	0	.....	Astronomical Obs'y.
Wilna	30.28	769.0	30.74	780.7	20.3	— 6.5	55	se.	4	2	.....	.....	0	.....	.....	0	0	.....	Berg, Assistant.
Yeniseisk	30.41	772.3	30.75	781.0	—23.4	—30.8	80	calm	0	0	.....	.....	0	.....	.....	0	0	.....	M. O. Marks.
Scottish.																			
Monach Lt	.....	.....	29.49	749.0	43	6.1	91	sw.	.....	.....	6	.....	10	.....	.....	0.2	5.	.....	J. Youngclause.
North Unst	.....	.....	30.11?	764.8?	.....	.....	.....	s.	.....	.....	6	3	2	sw.	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.26	768.5	30.36	771.2	57.2	14.0	61	sw.	3.8	1.7	.....	0	4	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.30	769.6	30.36	771.1	51.8	11.0	94	se.	2.5	1.1	.....	.....	10	.....	.....	0.098	2.5	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.34	694.3	30.42	772.7	41.4	5.2	97	sw.	9.6	4.3	.....	.....	10	.....	.....	0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	28.15	715.0	30.45	773.5	48.4	9.1	77	s.	5.4	2.4	.....	.....	9	.....	.....	0	0	almost cov'd	The Staff.
Murcia, Met. Obs'y	30.21	767.3	30.35	770.8	64.0	17.8	51	wsw.	1.3	0.6	.....	2	3	ese.	.....	0	0	clouds	Olayo Diaz, Director.
Oviedo	29.41	747.1	30.30	769.5	51.4	10.2	90	se.	2.4	1.1	.....	10 cs	10 n	se.	n.	0.075	1.9	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.41	747.0	30.33	770.3	50.5	10.3	93	w.	5.6	2.5	.....	.....	10	.....	.....	1.161	29.5	rainy	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.93	760.2	29.99	761.7	78.8	26.0	77	e.	4.4	2.0	.....	.....	k	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.36	771.2	30.46	773.8	56.8	13.8	60	nw.	2.6	1.2	.....	3	3	se.	nw.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.00	762.0	30.09	764.3	74.8	23.8	89	se.	4.9	2.2	.....	2 cs	4 k	e.	e.	0.177	4.5	d. clouds	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	30.29	769.2	30.32	770.2	27.7	— 2.4	100	s.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Umea	30.25	768.4	30.30	769.7	30.9	— 0.6	88	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Hernosand	30.19	766.9	30.24	768.2	31.6	— 0.2	96	ssw.	.....	.....	6	.....	5	.....	.....	0	0	.....	
Stockholm	30.22	767.5	30.39	772.0	34.2	1.2	89	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Wisby	30.34	770.5	30.39	772.0	38.5	3.6	80	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.27	768.9	30.36	771.1	32.5	0.3	98	s.	7 2	3.2	.....	.....	10	.....	.....	0	0	foggy	S. G. Fineman.
Swiss.																			
Geneva	28.89	733.8	30.35	770.8	45.1	7.3	67	n.	.....	.....	2	.....	5	.....	.....	0	0	.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.42	772.7	34.5	1.4	92	n.	20	8.9	.....	.....	10	.....	nw.	0.039	1.0	snowing	The Observatory.
Valona	.....	.....	30.28	769.1	57.4	14.1	.....	n.	.....	.....	1	.....	10	.....	.....	0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.16	766.1	59.7	15.4	64	sw.	.....	.....	1	.....	3 k	.....	sw.	0.43	10.9	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred L. Kingsbury.
United States.																			
Albany, New York	30.12	765.0	30.22	767.6	35	1.7	79	s.	11	4.9	.....	.....	10 n	.....	.....	0.27	6.9	light rain	J. O. Barnes.
Alpena, Michigan	29.08	738.6	29.79	756.7	29	— 1.7	88	e.	7	3.1	.....	.....	10 n	.....	.....	0.14	3.6	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.65	626.1	29.75	755.6	36	2.2	82	sw.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.08	687.8	30.12	765.0	—12	—24.4	54	n.	7	3.1	.....	0	9 s	.....	nw.	0.01	0.3	cloudy	B. G. Lenoir.
Atlanta, Georgia	28.90	734.0	30.12	765.0	61.0	16.1	96	s.	10	4.5	.....	0	9 k	.....	s.	0.59	15.0	clearing	H. C. Smyth.
Atlantic City, New Jersey	30.05	763.3	30.06	763.5	38	3.3	100	ne.	11	4.9	.....	.....	10n;fg	.....	ne.	0.25	6.3	light rain	Jas. M. Watson.
Augusta, Georgia	29.98	761.5	30.18	766.6	59	15.0	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	John Healy.
Baltimore, Maryland	30.04	763.0	30.09	764.3	41	5.0	82	e.	4	1.8	.....	.....	fg.	.....	.....	0.16	4.1	dense fog	Geo W Feiger.
Barnegat, New Jersey	30.09	764.3	30.11	764.8	38.0	3.3	96	ne.	17	7.6	.....	.....	10 n	.....	.....	0.35	8.9	light rain	G. A. Hill.
Behring Id., Behring Sea	29.65	753.1	29.67	753.6	36.4	2.4	.....	s.	37	16.5	.....	.....	10 n	.....	.....	0.58	14.7	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	27.95	709.9	29.68	753.9	32	0.0	88	ne.	1	0.4	.....	.....	10 s	.....	.....	0.02	0.5	threatening	A. Pritchard.
Benton, Fort, Montana	27.18	690 4	30.18	766.6	— 7	—21.7	61	ne.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	S. Wheaton.
Billings, Montana	26.48	672.7	.....	.....	1	—17.2	72	ne.	12	5.4	.....	.....	10 n	.....	.....	0.05	1.3	light snow	T. Gibson.
Bismarck, Dakota	27.86	707 6	29.84	757.9	4	—15.6	76	n.	8	3.6	.....	.....	10 n	.....	.....	0.02	0.5	light snow	Cyrus Cramer.
Block Island, Rhode Island	30.21	767.3	30.24	768.1	33	0.6	88	ne.	20	8.9	.....	.....	10 n	.....	se.	0.39	9.9	light rain	J. T. Eiker.
Boise City, Idaho	26.96	684.8	29.92	760.0	20	— 6.7	87	nw.	8	3.6	.....	0	2 s	.....	.....	0.15	3.8	clear	B. E. Light.
Boston, Massachusetts	30.14	765.5	30.30	769.6	30.0	— 1.1	77	e.	22	9.8	.....	.....	10 n	.....	.....	0.20	5.1	light snow	O. B. Cole.
Brownsville, Texas	29.74	755.4	29.80	756.9	71.0	21.7	94	s.	14	6.3	.....	.....	10 s	.....	s.	0	0	cloudy	M. McCarty.
Buffalo, New York	29.08	738.6	29.88	758.9	35	1.7	100	ne.	4	1.8	.....	.....	fg.	.....	.....	0.42	10.7	dense fog	W. Finn.
Buford, Fort, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	inap.	inap.	.....	F. A. Mellen.
Burlington, Vermont	29.90	759 4	30.21	767.3	20.6	— 6.3	85	s.	1	0.4	.....	5 cs	5 s	w.	w.	0.02	0.5	cloudy	D. N. Farnell.
Cairo, Illinois	29.49	749.0	29.91	759.7	59.6	15.3	89	sw.	12	5.4	.....	.....	10 s	.....	sw.	1.22	31.0	cloudy	W. H. Ray.
Cape Henry, Virginia	30.04	763.0	30.06	763.5	59	15.0	87	sw.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.06	763.5	30.09	764.3	45.0	7.2	83	e.	9	4.0	.....	.....	fg.	.....	.....	0.05	1.3	dense fog	W. E. Smith.
Cape Mendocino, California	29.22	742.2	29.92	760.0	38.5	3.6	92	nw.	34	15.2	.....	2 k	fg.	nw.	nw.	0.20	5.1	clear	J. J. McLean.
Cedar Keys, Florida	30.12	765.0	30.14	765.5	72	22.2	84	se.	9	4.0	.....	0	5 ks	e.	e.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.02	737.1	29.89	759.2	35.0	1.7	79	ne.	4	1.8	.....	.....	10 s	.....	ne.	0.02	0.5	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.08	764.0	30.14	765.5	59	15.0	100	e.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.25	742.9	30.14	765.5	54.0	12.2	100	sw.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	D. O'Donoghue.
Chattanooga, Tennessee	29.20	741.7	30.06	763.5	61.0	16.1	96	s.	6	2.7	.....	.....	10 ks;fg	.....	sw.	0.13	3.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.42	594.9	29.67	753.6	25.1	— 3.8	58	nw.	4	1.8	.....	0	1 s	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.11	739.4	29.86	758.4	35.6	2.0	87	w.	6	2.7	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	J. Mitchell.
Chincoteague, Virginia	30.03	762.7	30.05	763.3	48.5	9.2	100	ne.	5	2.2	.....	.....	10s;fg	.....	nw.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.20	741.7	29.89	759.2	59	15.0	87	sw.	7	3.1	.....	.....	10 s	.....	sw.	0.73	18.5	cloudy	K. B. Watkins.
Cleveland, Ohio	29.08	738.6	29.87	758.7	42.3	5.7	94	w.	4	1.8	.....	.....	fg	.....	.....	0.89	22.6	dense fog	J. B. Newlin.
Coleman City, Texas	27.94	709.7	29.82	757.4	52	11.1	86	se.	12	5.4	.....	.....	10 s	.....	s.	0	0	cloudy	L. Dorman.
Columbus, Ohio	28.96	735.6	29.86	758.4	52	11.1	100	s.	3	1.3	.....	.....	10s;fg	.....	sw.	0.98	24.9	cloudy	D. Cuthbertson.
Concho, Fort, Texas	27.77	705.3	29.79	756.7	62.0	16.7	93	s.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. McGlone.
Davenport, Iowa	29.13	739.9	29.83	757.7	38	3.3	62	sw.	4	1.8	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	R. R. Martin.
Davis, Fort, Texas	24.91	632.7	29.86	758.4	47	8.3	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.06	712.7	29.86	758.4	15.5	— 9.2	91	sw.	1	0.4	.....	.....	10 n	.....	.....	inap.	inap.	light snow	D. Moors.

STATIONS	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	24.90	632 4	29.82	757.4	10	—12.2	83	e.	6	2.7			10 s			0	0	cloudy	F. Willson.
Delaware Breakwater, Del.	30.04	763.0	30.06	763.5	37	2.8	100	e.	6	2.7			10 s			inap.	inap.	cloudy	T. S. Townsend.
Denison, Texas	28.94	735.1	29.70	754.4	64.0	17.8	90	s.	12	5.4			10 s		s.	0	0	cloudy	J. W. Byram.
Denver, Colorado	24.14	613.1	29.66	753.4	35.0	1.7	61	sw.	3	1.3		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.86	733.0	29.83	757.7	34	1.1	79	s.	4	1.8			10 s		s.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.10	739.1	29.85	758.2	37.5	3.1	92	sw.	8	3.6			10 s			0.30	7.6	cloudy	E. R. Brace.
Dodge City, Kansas	26.93	684.0	29.67	753.6	39	3.9	73	e.	4	1.8		hz.	0			0	0	dense haze	Y. P. Temple.
Dubuque, Iowa	29.08	738.6	29.84	757.9	37	2.8	75	sw.	1	0.4			10 s			0.02	0.5	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.05	737.9	29.86	758.4	28	— 2.2	88	calm	0	0			10 s			0.04	1.0	cloudy	N. B. Conger.
Eagle Pass, Texas	28.96	735.6	29.80	756.9	59.1	15.1	87	se.	4	1.8			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	24.81	630.2	29.71	754.6	12	—11.1	83	sw.	18	8.0			10 s		sw.	0.56	14.2	cloudy	J. M. Clifford.
Eastport, Maine	30.36	771.1	30.44	773.2	8.0	—13.3	76	ne.	12	5.4		3 cs	3 s	w.		0	0	fair	D. C. Murphy.
Elliott, Fort, Texas	26.89	683.0	29.79	756.7	40	4.4	50	s.	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	25.93	658.6	29.81	757.2	55.5	13.1	16	w.	1	0.4		0	1 s			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.09	738.9	29.86	758.4	38	3.3	82	calm	0	0			fg.			0.67	17.0	dense fog	Peter Wood.
Escanaba, Michigan	29.09	738.9	29.81	757.2	24.0	— 4.4	88	ne.	6	2.7			10 s		ne.	0.12	3.0	cloudy	George Heathcote.
Fredericksburg, Texas	28.02	711.7	29.82	757.4	64	17.8	93	s.	12	5.4			10 s			0	0	cloudy	Frank Halwegler.
Galveston, Texas	29.86	758.4	29.91	759.7	67	19.4	93	se.	15	6.7			10 ks		sw.	0	0	cloudy	E. O'C. MacIlvernay.
Grand Haven, Michigan	29.11	739.4	29.82	757.4	36.0	2.2	79	sw.	7	3.1			10 s			3.25	82.5	cloudy	J. E. Mueller.
Grant, Fort, Arizona	24.92	633.0	29.78	756.4	38.5	3.6	59	n.	3	1.3		0	3 s			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	30.11	764.8	30.13	765.3	51	10.6	100	w.	10	4.5		9 k	fg.	sw.		0.05	1.3	cloudy	R. M. Crawford.
Helena, Montana	25.44	646.2	29.84	757.9	5	—15.0	100	w	10	4.5			10 n		calm	0.07	1.8	light snow	N. C. Smith.
Henrietta, Texas	28.72	729.5	29.77	756.1	60	15.6	93	se.	16	7.2			10 s			0	0	cloudy	J. P. Sherry.
Huron, Dakota	28.20	716.3	29.72	754.9	31.3	— 0.4	78	se.	19	8.5			10n;fg			0.02	0.5	light rain	S. W. Glenn.
Indianapolis, Indiana	29.00	736.6	29.85	758.2	43	6.1	93	n.	4	1.8			fg.			0.53	13.5	dense fog	C. F. R. Wappenhans.
Indianola, Texas	29.82	757.4	29.85	758.2	69.2	20.7	93	se.	15	6.7		0	fg.			0	0	clear	I. A. Reed.
Jacksboro, Texas	28.53	724.6	29.77	756.1	52	11.1	66	s.	11	4.9		0	0			0	0	clear	D. J. Carr.
Jacksonville, Florida	30.10	764 5	30.15	765.8	63	17.2	93	calm	0	0		4 cs	fg.			0	0	fair	J. W. Smith.
Keogh, Fort, Montana	27.25	692.1	29.93	760.2	2	—16.7	76	n	12	5.4			10 s		nw.	inap.	inap.	cloudy	A. Schneider.
Keokuk, Iowa	29.14	740.1	29.84	757.9	38.0	3.3	89	sw.	2	0.9			10 s			0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.05	763.3	30.07	763.8	74.0	23.3	84	se.	8	3.6		0	3k;ks		se.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.10	764.5	30.12	765.0	51.5	10.8	93	sw.	12	5.4		0	9 s		sw.	0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	28.96	735.6	30.04	763.0	57	13.9	83	ne.	5	2.2			10 s		sw.	inap.	inap.	cloudy	J. A. Cody.
La Crosse, Wisconsin	28.99	736.3	29.83	757.7	34	1.1	71	n.	1	0.4			10 s			0.02	0.5	cloudy	S. C. Emery.
Leavenworth, Kansas	28.83	732.3	29.78	756.4	34	1.1	88	se.	3	1.3			10s;fg			0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.04	737.6	29.91	759.7	21.5	— 5.8	78	se.	2	0.9			10 s			0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.57	751.1	29.90	759.4	61	16.1	87	calm	0	0			10 s		s.	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.51	749.5	29.91	759.7	42	5.6	83	nw.	8	3.6		0	5 s		nw.	1.30	33.0	fair	T. S. Collins.
Louisville, Kentucky	29.28	743.7	29.87	758.7	60	15.6	81	s.	7	3.1			10 s		sw.	0.59	15.0	cloudy	L. M Dey.
Lynchburg, Virginia	29.32	744.7	30.04	763.0	51.2	10.7	86	calm	0	0			10s;fg			0.02	0.5	cloudy	Louis Duane.
Mackinaw City, Michigan	29.14	740.1	29.84	757.9	25.0	— 3.9	73	e.	10	4.5			10 s		e.	0.34	8.6	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.13	765.3	30.14	765.5	52.0	11.1	100	w	4	1.8		4 ck	fg.	sw.		inap.	inap.	fair	William Daly.
Madison, Wisconsin	28.75	730.2	29.84	757.9	35	1.7	89	calm	0	0			fg.			0.07	1.8	dense fog	C. A. Shaw.
Maginnis, Fort, Montana	25.20	640.1	29.74	755.4	— 5	—20.6	65	se.	4	1.8			10 s			0.40	10.2	cloudy	F. Burke.
McKavett, Fort, Texas	27.49	698.2	29.87	758.7	64	17.8	90	s.	13	5.8			10 s			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.02	737.1	29.80	756.9	28	— 2.2	88	e.	2	0.9			10 s			0.23	5.8	cloudy	J. Gilligan.
Memphis, Tennessee	29.60	751.8	29.94	760.5	60	15.6	87	s.	4	1.8			10 s			0.03	0.8	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.03	737.3	29.83	757.7	39	3.9	73	nw.	3	1.3			10 s			0.03	0.8	cloudy	W. Line.
Missoula, Fort, Montana	26.36	669.5	29.79	756.7	21	— 6.1	61	w.	2	0.9			9 s			0	0	threatening	I. H. Young.
Mobile, Alabama	30.00	762.0	30.04	763.0	63	17.2	93	s.	2	0.9			fg.			inap.	inap.	dense fog	C. A. Read.
Montgomery, Alabama	29.78	756.4	30.02	762.5	63.7	17.6	93	se.	8	3.6		0	7 s		w.	0	0	fair	J. B. McLaughlin
Moorhead, Minnesota	28.68	728.5	29.78	756.4	30	— 1.1	88	se.	10	4.5			10 s			0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	28.90	734.0	29.97	761.2	59.5	15.3	88	sw.	4	1.8			10 n			0.57	14.5	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.73	602.7	30.35	770.9	25.0	— 3.9	94	s.	15	6.7			10 n			0.04	1.0	light snow	S. W. Beall.
Nashville, Tennessee	29.33	745.0	29.94	760.5	64.5	18.1	92	s.	6	2.7		0	7 ks		sw.	0.01	0.3	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.10	764.5	30.22	767.6	31	— 0.6	100	ne.	7	3.1			10n;fg			0.09	17.5	light rain	J. H. Sherman.
New London, Connecticut	30.18	766.6	30.23	767.8	32	0.0	100	ne.	8	3.6			10 n		ne.	0.30	9.1	light rain	J. G. Lynch.
New Orleans, Louisiana	29.95	760.7	30.01	762.2	66.0	18.9	93	se.	7	3.1			10 s			inap.	inap.	cloudy	L. Dunne.
Newport, Rhode Island	30.20	767.1	30.25	768.3	33.2	0.7	87	ne.	5	2.2			10 s		e.	0.28	7.1	cloudy	W. McGillivray.
New York, New York	30.00	762.0	30.20	767.1	33	0.6	88	ne.	18	8.0			10s;fg		ne.	0.59	12.7	cloudy	J. B. Merrill.
Norfolk, Virginia	30.04	763.0	30.07	763.8	59	15.0	87	sw.	8	3.6			10s;hz		sw.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	26.52	673.6	29.62	752.3	30.6	— 0.8	78	ne.	8	3.6		0	0			inap.	inap.	clear	E. F. Brady.
Olympia, Washington T'y.	29.84	757.9	29.88	758.9	34.0	1.1	78	e.	1	0.4			10 n			0.24	6.1	light snow	J. Dascomb.
Omaha, Nebraska	28.50	723.9	29.76	755.9	35.1	1.7	79	se	11	4.9			10 s			0	0	threatening	A. Pollak.
Ooglaamie, Alaska	30.26	768.6	30.28	769.1	— 9.5	—23.1		wnw.	9	4.0		0	9 s			0.01	0.3	cloudy	P. H. Ray.
Oswego, New York	29.58	751.3	29.92	760 0	35.0	1.7	69	se.	19	8.5			10 n			0.11	2.8	sleeting	J. G. Linsley.
Palestine, Texas	29.31	744.5	29.89	759.2	66.5	19.2	93	s.	9	4.0		0	8 ks		s.	0.89	22.6	cloudy	L. M. Pindell.
Pensacola, Florida	30.04	763.0	30.07	763.8	67.1	19.5	100	se.	5	2.2			10 s		se.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.01	762.2	30.12	765.0	37	2.8	100	ne.	13	5.8			10n;fg		ne.	0.22	5.6	light rain	E. M. Mattison.
Pike's Peak, Colorado	17.20	436.9	29.92	760.0	1	—17.2	100	w.			4		10 s			0	0	cloudy	H. Hall.
Ploche, Nevada	23.57	598.7	29.73	755.1	17.2	— 8.2	73	n.	8	3.6		0	5 ks			0.05	1.3	fair	C. N. Kitchel.
Pittsburg, Pennsylvania	29.05	737.9	29.91	759.7	54.0	12.2	86	calm	0	0			10 s			0.97	24.6	cloudy	W. A. Reid.
Poplar River, Montana	27.55	699.8	29.90	759 4				ne.			7	0	9 n			0.07	1.8	light snow	W. D. Maxwell.
Port Eads, Louisiana	30.03	762.7	30.04	763.0	61.0	16.1	100	se.	9	4.0			fg			0	0	dense fog	H. B. Boyer.
Port Huron, Michigan	29.12	739.6	29.85	758.2	33.0	0.6	100	s.	5	2.2			fg.			0.23	5.8	dense fog	W. O. Bailey.
Portland, Maine	30.37	771.4	30.42	772.7	14.0	—10.0	64	ne.	15	6.7			10 n			inap.	inap.	light snow	W. W. Eichelberger
Portland, Oregon	29.80	758.4	29.93	760 2	34.0	1.1	89	s.	4	1.8		2 c	4 ks			0.01	0.3	fair	M. L. Hearne.
Portsmouth, N. C.					51	10.6	100	sw	3	1.3		4 cs	5ks;fg	sw.		0.08	2.0	cloudy	F. S. Coburn.
Prescott, Arizona	24.32	617.7	29.68	753.9	29.0	— 1.7	80	s.	21	9.4			10 n			0.09	2.3	light snow	Jas Cassidy.
Provincetown, Mass	30.24	768.1	30.27	768.8	31	— 0.6	88	ne.	14	6.3			10 n			0.37	9.4	light snow	P. T. Jenkins.
Punta Rassa, Florida	30.08	764.0	30.09	764.3	68	20.0	92	e.	6	2.7		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.61	752.1	29.98	761.5	35	1.7	89	n.	6	2.7		0	8 ks		n.	0	0	cloudy	J. R. Williams.
Rochester, New York	29.19	741.4	29.90	759.4	35	1.7	100	se.	8	3.6			10s;fg			0.22	5.6	cloudy	E. W. McGann
Roseburg, Oregon	29.43	747.5	30.00	762.0	32.5	0.3	94	s.	1	0.4			10 n		sw.	0.13	3.3	threatening	J. J. Nanry.
Sacramento, California	29.90	759.4	29.98	761.5	35.8	2.1	89	se.	5	2.2		0	0			0.14	3.6	clear	J. A. Barwick
St. Louis, Missouri	29.25	742.9	29.89	759.2	38.8	3.8	100	n.	3	1.3			fg.			0	0	dense fog	J. H. Weber.
St. Michael, Fort, Alaska	30.35	770.9	30.39	771.9	— 2	—18.9	100	nw.	11	4.9		0	4 s		w.	0.27	6.9	fair	A. P. Leavitt
St. Paul, Minnesota	28.86	733.0	29.80	756.9	31.0	— 0.6	81	calm	0	0			10 s			0.09	2.3	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.88	733.5	29.86	758.4	6	—14.4	87	nw.	14	6.3			10 n			0.12	3.0	light snow	C. B Dilley.
Salt Lake City, Utah	25.17	639.3	29.73	755.1	26	— 3.3	67	w.	4	1.8			10 s			0.23	5.8	threatening	J. Craig.
San Antonio, Texas	29.09	738.9	29.81	757.2	68.5	20.3	90	se.	6	2.7			10 c			0	0	cloudy	T. J. Kenan.
San Diego, California	29.84	757.9	29.91	759.7	49.8	9.9	63	w.	20	8.9			10 n		w.	0.40	10.2	light rain	A. C. Dobbins.
Sandusky, Ohio	29.14	740.1	29.80	758.4	40	4.4	89	nw.	6	2.7			fg.			0.45	11.4	dense fog	M. H. Perry.
Sandy Hook, New Jersey	30.15	765.8	30.18	766.6	36.0	2.2	89	e.	27	12.1			10 n		ne.	0.41	10.4	light rain	B. A. Blundon.
San Francisco, California	29.93	760.2	30.00	762.0	43	6.1	64	nw.	9	4.0		0	1 s		w.	0.12	3.0	clear	N. Gorom.
Santa Fé, New Mexico	22.79	578.9	29.87	758.7	30	2.2	66	s.	11	4.9		5 c	0			0	0	fair	H. U. Jones.
Savannah, Georgia	30.05	763.3	30.14	765.5	61	16.1	90	calm	0	0			fg.			0.02	0.5	dense fog	H. W. Ford.
Shaw, Fort, Montana	26.19	665.2	30.04	763.0	— 8	—22.2	100	nw.	2	0.9			10 n			0.03	0.8	light snow	A. L. Mathews.
Shreveport, Louisiana	29.64	752.8	29.90	759.4	62	16.7	100	s.	3	1.3		0	5 s			0.03	10.0	fair	E. N. Meekins.
Sill, Fort, Indian Territory	28.47	723.1	29.78	756.4	47.5	8.6	88	s.	1	0.4			10 s			0	0	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.00	609.6	29.85	758.2	31.5	— 0.3	80	calm	0	0		3 ck	7 s			0	0	cloudy	N. D. Lane.
Sitka, Alaska	29.76	755.9	29.83	757.7	36.0	2.0	75	e.	7	3.1			10 ks		e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.31	744.5	29.81	757.2	57.0	13.9	93	e.	2	0.9			10 s		s.	0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.12	765.0	30.16	766.1	55	12.8	100	w.	4	1.8			fg.			0	0	dense fog	O. Parker.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	27.78	705.6	29.91	759 7	18	— 7.8	91	sw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	H. Clifford.
Springfield, Illinois.....	29.15	740.4	29.88	758.9	41	5.0	73	se.	2	0.9	.....	.....	fg.	.....	.....	0.06	1.5	dense fog....	T. B. Jennings
Springfield, Missouri.....	28.33	719.6	29.84	757.9	53.5	11.9	86	s.	14	6.3	.....	6 cs	0	w.	.....	inap.	inap.	fair.....	J. H. Bryce.
Starkville, Miss.....	29.51	749.5	30.01	762.2	64	17.8	90	sw.	10	4.5	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	C. Dill.
Stevenson, Fort, Dakota.....	27.87	707.9	29.89	759.2	1	—17.2	100	ne.	16	7.2	.....	.....	10 n	.....	.....	0.02	0.5	light snow..	A. Schneider.
Stockton, Fort, Texas	26.66	677.2	29.80	756.9	46	7.8	86	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	G. Liebmann.
Thatcher's Island, Mass.....	30.29	769.4	30.35	770.9	34.0	1.1	88	e.	25	11.2	.....	.....	10 s	.....	e.	0.12	3.0	cloudy.....	A. Buell.
Thomas, Camp, Arizona.....	26.96	684.8	29.79	756.7	43	6.1	76	e.	.....	.....	I	0	5 ks	.....	w.	0	0	fair.....	J. T. Fitzgerald.
Toledo, Ohio.....	29.12	739.6	29.86	758.4	40	4.4	82	w.	4	1.8	.....	.....	10s;fg	.....	.....	0.32	8.1	cloudy.....	A. Buell.
Tucson, Arizona.....	27.27	692 6	29.75	755.6	51	10.6	48	w.	4	1.8	.....	2 cs	0	.....	.....	0	0	clear.....	J. L. Whitesides
Umatilla, Oregon.....	29.60	751.8	29.98	761.5	13	—10.6	80	se.	I	0.4	.....	.....	10 n	.....	.....	0.05	1.3	light snow..	J. Daly.
Verde, Fort, Arizona.....	.....	.....	.....	.....	42.2	5.7	83	w.	.....	.....	I	.....	10 s	.....	w.	0.07	1.8	cloudy.....	O. L. Pease.
Vicksburg, Mississippi	29.72	754 9	30.00	762.0	65.7	18.7	91	s.	6	2.7	.....	0	9 k	.....	s.	0	0	cloudy	James Kenealy.
Visalia, California.....	29.59	751.6	29.97	761.2	36.4	2.4	85	nw.	2	0.9	.....	0	1 s	.....	.....	0.17	4.3	clear.....	O. D. Stewart
Washakie, Fort, Wyoming.	23.86	606.0	29.62	752.3	20.2	— 6.6	79	w.	4	1.8	.....	0	3 s	.....	.....	0	0	clear.....	T. M. Ambler.
Washington, D. C.....	29.95	760 7	30.07	763.8	38.3	3.5	95	ne.	5	2.2	.....	.....	ion fg	.....	.....	0.23	5.8	light rain....	B. M. Parsell.
West Las Animas, Colorado	25.49	647.4	29.62	752.3	37	2.8	42	w.	8	3.6	.....	0	2 s	.....	sw.	0	0	clear.....	F. H. Brandenburg
Williamsport, Pa.....	29.42	747.3	30.05	763.3	38.3	3.5	86	e.	7	3.1	.....	.....	10 s	.....	.....	0.78	19.8	cloudy	B. F. Hough.
Wilmington, N. Carolina...	30.11	764.8	30.17	766.3	56	13.3	100	nw.	I	0.4	.....	.....	fg.	.....	.....	0	0	dense fog....	Samuel A. Haney.
Winnemucca, Nevada.....	25.31	642.9	29.83	757.7	17.0	— 8.3	66	sw.	6	2.7	.....	0	6 s	.....	w.	0	0	fair.....	J. Grover.
Yankton, Dakota.....	28.31	719.1	29.73	755.1	30	— 1.1	68	s.	17	7.6	.....	.....	10 s	.....	.....	0	0	cloudy.....	J. H. Atfield.
Yuma, Arizona.....	29.64	752 8	29.79	756.7	50.4	10.2	58	nw.	8	3.6	.....	0	9 s	.....	s.	0.05	1.3	cloudy	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia.....	22.02	559.3	.....	.....	55.0	12.8	67	sw.	2	0.9	.....	2 cs	5 s	e.	n.	0.10	2.5	fair.....	Joaquin Gomez.
Kingston, Jamaica, W. I....	30.01	762.2	30.02	762.5	71	21.7	81	calm	0	0	.....	0	0	.....	.....	0	0	clear	Robert Johnston.
Paramaribo, S. A.....	30.02	762.5	30.02	762.5	78	25.6	86	e.	.....	.....	3	5 ck	5 k	e.	e.	0.470	11.9	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.32	744.7	29.88	758.9	80	26.7	89	calm	.....	.....	0	.....	10 ks	.....	calm	0.18	4.6	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A....	.....	.....	.....	.....	76.5	24.7	93	ne.	.....	.....	I	.....	9 ks	.....	ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I.....	30.02	762.5	30.15	765.8	72	22.2	85	e.	.....	.....	.....	.....	8 kn	.....	e.	0.19	4.8	cloudy	Aug. Wallace.
Havana, Cuba.....	29.96	761.0	30.03	762.7	69.3	20.7	92	e.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	Benito Vines, S. J.
York Factory B. A.....	30.09	764.3	30.16	766.1	—21.0	—29.4	.....	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	Fortesque & Wood.

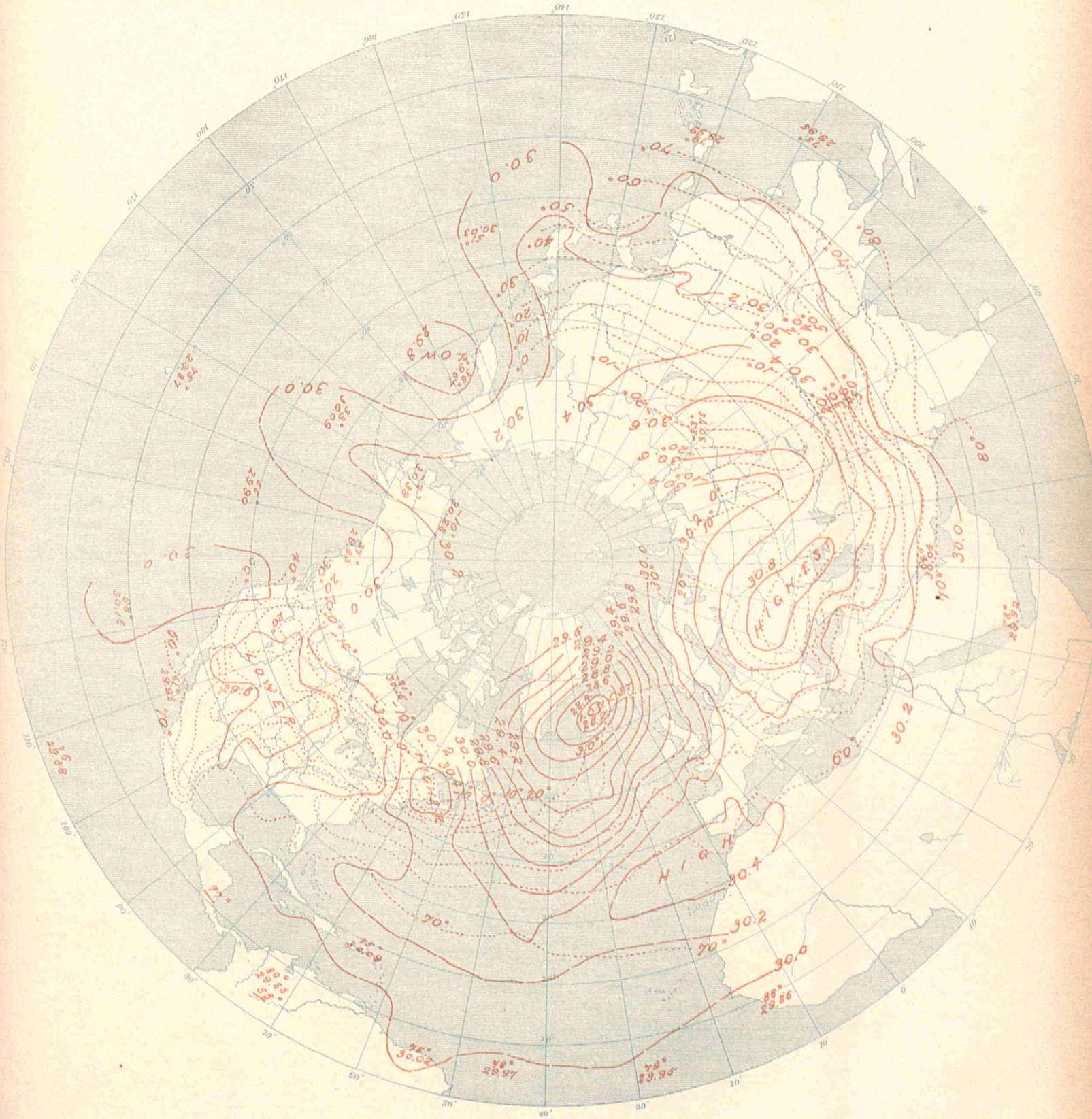
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level Inch.	Barometer reduced to sea-level Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Sea-swell. Character.	Sea-swell. Direction from	Weather.
District No. 1—North Atlantic.																		
H. M. Dock Yard, Bermuda, W. I.	30.19	766.7	67	19.4	90	ssw.	.....	.....	1–2	.....	4	ssw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Fawn, N. 21° 30′, W. 33° 45′	30.15	765.8	71.5	21.9	73	e.	.....	.....	3	.....	7	.....	.....	.....	.....	4	ese.	d. clouds.
H. M. S. Iron Duke, N. 36° 58′, W. 8° 50′	30.46	773.7	56	13.3	74	calm	.....	.....	0	.....	7	nnw.	.....	.....	.....	7	wnw.	misty.
H. M. S. Monarch, Port Said, Egypt	30.23	767.8	62	16.7	66	w.	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Minotaur, Arosa Bay, Spain	30.35	770.9	54.5	12.5	83	calm	.....	.....	0	.....	9	ssw.	.....	.....	.....	.....	.....	misty.
H. M. S Tyne, N. 8° 59′, W. 17° 00′	29.93	760.2	78.5	25.8	98	nw.	.....	.....	3	.....	3	.....	.....	.....	.....	2	nw.	d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	30.35	770.9	15	— 9.4	7	ne.	22	9.8	.....	.....	10	.....	.....	o	o	.....	.....	cloudy.
U. S. S. Alliance, Key West, Fla	30.06	763.5	76	24.4	95	e.	.....	.....	1–2	.....	2	.....	.....	light	light	.....	.....	clear.
U. S. S. Enterprise, N. 3° 26′, W. 24° 45′*	29.93	760.2	81	27.2	82	ne.	.....	.....	4	.....	5f	.....	ne.	.....	.....	sm'h	.....	clear.
U. S. S. Kearsarge, Cartagena, U. S. C.	.....	.....	77	25.0	95	ene.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Lancaster, Corunna, Spain	30.35	770.9	54	12.2	93	w.	.....	.....	2	.....	8	.....	w.	.....	.....	h'vy	n.	light rain.
U. S. S. Nipsic, N. 25° 24′, W. 66° 31′	30.26	768.6	72	22.2	67	ene.	.....	.....	4	.....	5	.....	.....	.....	.....	long	ene.	fair.
U. S. S. Quinnebaug, Cadiz, Spain	30.49	774.4	61	16.1	66	calm	.....	.....	0	.....	2	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. St. Louis, League Island, Pa.	30.13	765.3	35	1.7	100	ne.	8	3.6	.....	.....	10	.....	ne.	0.19	4.8	.....	.....	foggy.
U. S. S. Tennessee, N. 16° 34′, W. 66° 52′ *	30.15	765.8	79	26.1	82	e.	13	5.8	.....	.....	2	.....	.....	0.01	0.3	.....	.....	fair.
U. S. S. Vandalia, N. 17° 55′, W. 73° 50′ *	30.06	763.5	79	26.1	90	ene.	.....	.....	5	.....	5	.....	e.	.....	.....	mod.	.....	fair.
U. S. S. Yantic, Vera Cruz, Mexico	29.88	758.9	73	22.8	100	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	.....	clear.
S. S. British Prince, N. 39° 48′, W. 69° 08′ †	30.14	765.5	37	2.8	...	ese.	.....	.....	4	.....	10?	.....	e.	o	o	sm'h	.....	clear?
S. S. Illinois, N. 42° 56′ W. 45° 35′	29.73	755.1	44	6.7	92	wnw.	.....	.....	6	.....	10	.....	nw.	.....	.....	r'gh	nw.	overcast.
S. S. Indiana, N. 51° 22′, W. 9° 30′	.....	.....	46	7.8	84	wsw.	.....	.....	6	.....	2	.....	w.	o	o	h'vy	w.	
S. S. Lord Clive, N. 50° 58′, W. 13° 45′	30.01	762.2	.....	.....	.....	wnw.	.....	.....	6	.....	6	.....	wnw.	.....	.....	high	wnw.	squally.
S. S. Lord Gough, N. 47° 42′, W. 41° 29′	29.30	744.2	32	0.0	...	sw.	.....	.....	7	.....	5	.....	sw.	24 h'r	24 h'r	r'gh	sw.	squally.
S. S. Ohio, N. 48° 21′ W. 32° 35′ †	29.32	744.7	44	6.7	92	ssw.	.....	.....	7	.....	10	.....	.....	.....	.....	h'vy	sw.	squally.
S. S. Pennsylvania, off Saltees, Ireland†	29.65	753.1	47	8.3	100	sw.	.....	.....	6	.....	8	.....	ssw.	7 h'r	7 h'r	r'gh	sw.	cloudy.
S. S. Circassian, N. 41° 50′, W. 66° 30′*	30.26	768.6	33	0.6	89	ene.	.....	.....	6	.....	10	.....	e.	o	o	6	ene.	snowing.
S. S. Nova Scotian, N. 49° 43′, W. 33° 51′	29.22	742.2	39	3.9	.....	sw.	.....	.....	5	.....	10	.....	w.	.....	.....	long	wsw.	squally
S. S. Manitoban, N. 43° 04′, W. 63° 42′	30.34	770.6	18	— 7.8	.....	ne.	.....	.....	4	.....	4	.....	ne.; s.	1 h'r	1 h'r	sm'h	.....	fair.
S. S. Scandinavian, N. 55° 03′ W. 12° 45′	29.46	748.3	42	5.6	.....	w.	.....	.....	6	.....	7	.....	wnw.	sh'rs	sh'rs	high	w.	squally.
S. S. Jason, N. 49° 36′, W. 14° 26′	29.92	760.0	50.0	10.0	.....	sww.	.....	.....	8	.....	8 n	.....	.....	.....	.....	8	wnw.	raining.
S. S. Stella, N. 48° 19′, W. 20° 18′	29.96	761.0	41.0	5	.....	w.	.....	.....	5	.....	5	.....	sw.	6 h'r	6 h'r	6	w.	d. clouds.
S. S. Ailsa, N. 11° 00′, W. 83° 40′†	30.00	762.0	78	25.6	?	ene.	.....	.....	5	.....	10	.....	ene.	o	o	long	ene.	overcast.
S. S. Anchoria, N. 55° 16′, W. 8° 52′ †	29.70	754.4	.....	.....	.....	wsw.	.....	.....	4	.....	5	.....	wsw.	2 h'r	2 h'r	hv'y	w.	fine.
S. S. Assyria, N. 33° 06′, W. 49° 13′	30.19	766.8	64	17.8	73	wnw.	.....	.....	4	.....	.....	.....	wnw.	.....	.....	mod.	wnw.	clear.
S. S. Bolivia, N. 44° 09′, W. 44° 21′	29.79	756.7	35	1.7	.....	wnw.	.....	.....	7	.....	5	.....	wnw.	snow	snow	r'gh	wnw.	fair.
S. S. Dorian, Boston, Mass	30.26	768 6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
S. S. Gallia, N. 40° 30′, W. 68° 42′	30.19	766.8	33	0.6	?	ese.	.....	.....	6	.....	10	.....	ne.	12 h'r	12 h'r	sm'h	.....	cloudy.
S. S. Marathon, N. 48° 23′, W. 8° 20′	30.30	769.6	45	7.2	.....	wnw.	.....	.....	6	.....	6	.....	wnw.	9 h'r	9 h'r	high	w.	squally.
S. S. Pavonia, N. 42° 02′, W. 59° 13′	30.16	766.1	33	0.6	79	n.	.....	.....	4	.....	8	.....	nnw.	o	o	sm'h	n.	fine.
S. S. Pereire, N. 44° 25′, W. 43° 39′	.....	.....	35.6	2	.....	w.	.....	.....	8	.....	10	.....	wnw.	snow	snow	h'vy	w.	covered.
S. S. Ville de Marseilles, South Negril, Jamaica, W. I†	30.15	765.8	74	23.3	.....	e.	.....	.....	5	.....	0	.....	.....	o	o	sm'h	.....	clear.
S. S. Abyssinia, N. 43° 15′, W. 47° 20′	29.77	756.1	48	8.9	92	w.	.....	.....	5	.....	10	.....	w.	8 h'r	8 h'r	r'gh	nw.	squally.
S. S. Wyoming, N. 50° 25′, W. 25° 10′	29.96	738.1	42	5.6	.....	ssw.	.....	.....	8	.....	7	.....	w.	5 h'r	5 h'r	h'vy	wsw.	threatening.
S. S. Bohemia, N. 45° 59′, W. 36° 10′†	29.32	744.7	.....	.....	.....	sw.	.....	.....	6–8	.....	10 k	.....	sw.	8 h'r	8 h'r	h'vy	nw.	squally.
S. S. Silesia, N. 42° 38′, W. 57° 01′†	30.26	768.6	.....	.....	.....	nw.	.....	.....	6	.....	8	.....	.....	o	o	5	wnw.	cloudy.
S. S. Vandalia, N. 58° 55′ W. 9° 27′	29.36	745.7	44.6	7.0	97	ssw.	.....	.....	6	.....	7	.....	ssw.	.....	.....	7	ssw.	cloudy.
S. S. Bulgarian, N. 47° 20′, W. 44° 11′*	29.46	748.3	.....	.....	.....	w.	.....	.....	7	.....	10	.....	w.	8 h'r	8 h'r	high	wnw.	
S. S. Virginian, N. 51° 58′ W. 6° 40′ *	29.85	758.2	47	8.3	.....	wsw.	.....	.....	6	.....	5	.....	wsw.	3 h'r	3 h'r	mod.	w.	squally.
S. S. Archimedes, N. 21° 30′, W. 22° 21′	30.14	765.5	.....	.....	.....	ne.	.....	.....	5	.....	4	.....	ne.	o	o	long	ne.	fair.
S. S. Rio Grande, N. 24° 27′ W. 81° 38′ †	30.20	767.1	80	26.7	.....	ne.	.....	.....	2	.....	1	.....	ne.	o	o	mod.	.....	clear.
S. S. Chalmette, N. 24° 33′ W. 83° 02′†	30.09	764.3	75	23.9	.....	ese.	.....	.....	4	.....	3	.....	se.	o	o	sm'h	.....	clear.
S. S. Lone Star, N. 30° 30′ W. 79° 43′†	30.15	765.8	74	23.3	.....	se.	.....	.....	1	.....	4	.....	sw.	2 h'r	2 h'r	mod.	ese.	squally.
S. S. Alleghany, N. 40° 47′, W. 69° 35′†	30.30	769.6	36	2.2	.....	ese.	.....	.....	4	.....	6	.....	e.	6 h'r	6 h'r	high	se.	rain & fog.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-Swell		Weather.
									Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
S. S. Archimede, N. 33° 35′, W. 51° 53′†	30.24	768.1	68	20.0		w.			3		3		w.	3 h'r	3 h'r	long	nw.	clear.
S. S. City of Merida, N. 21° 20′, W. 89° 39′†	30.01	762.2	79	26.1		ne.			2		1		ne.	0	0	light	ne.	fine.
S. S. City of Washington, N. 19° 06′, W. 96° 09′†	29.75	755.6	77	25.0		se.			1		5		e.	0	0	sm'h		fine.
S. S. Santiago, N. 20° 20′, W. 74° 05′	30.02	762.5	78	25.6		ene.			4		6		e.	1 h'r	1 h'r	mod.	e.	fine.
S. S. Denmark, N. 49° 49′ W. 8° 00′			49	9.4		w.			7		5		w.	sh'rs	sh'rs	h'vy	wsw.	fine.
S. S. Egypt, N. 50° 47′, W. 14° 00′*	29.84	757.9	40	4.4		w.			4		5		w.	0	0	long	w.	fair.
S. S. England, N. 48° 06′, W. 37° 24′	29.21	741.9				sw.			7		10		sw.	sq'lls	sq'lls	h'vy	w.	squally.
S. S. Helvetia, off Mine Head, Ireland	29.70	754.4	42	5.6		wsw.			7		8		w.	5 h'r	5 h'r	long	wsw.	raining.
S. S. The Queen, N. 47° 48′, W. 32° 20′	29.41	747.0	46	7.8		sw.			8		10		sw.	10 h'r	10 h'r	h'vy	sw.	rainy.
S. S. Braunschweig, N. 39° 12′, W. 13° 33′	30.41	772.4			86	n.			3		10		n	3 h'r	3 h'r	long	nw.	cloudy.
S. S. Donau, N. 45° 57′, W. 40° 03′	29.54	750.3				wsw.			8–9		10		wsw.	24 h'r	24h'r	h'vy	wsw.	squally.
S. S. Wesser, N. 49° 43′, W. 13° 34′	30.03	762.7				w.			6		8?		w.	2 h'r	2 h'r	long	w.	clear.?
S. S. Muriel, St. Lucia, W. I.*	29.98	761.5	80	26.7		ene.			5		0					sm'h		clear.
S. S. Belgenland, off St. Catherine, Eng*†	29.95	760.7	50	10.0	100	sw.			5		10		sw.	2 h'r	2 h'r	mod	wsw.	raining.
S. S. Nederland, N. 45° 02′, W 40° 41′			46	7.8	84	wsw.			7		8		wsw.	4 h'r	4 h'r	high	w.	overcast.
S. S. Rhynland, N. 50° 00′, W. 19° 00′	29.97	761.2	48	8.9	100	w.			7		5		w.	3 h'r	3 h'r	high	w.	squally.
S. S. Pennland, Antwerp, Belgium	30.14	765.5	46	7.8	92	s.			5		8		se.	0	0			
S. S. Switzerland, N. 45° 03′, W. 44° 31′†	29.65	753.1				w.			6		10		w.	3 h'r	3 h'r	hv'y	w.	heavy snow
S. S. Waesland, Jersey City, N. J	30.19	766.8	33	0.6		ene.			4		10		ene.	0.88	23.4			raining.
S. S. Zeeland, Isle of Wight, Eng*†	29.94	760.5	52	11.1		wsw.			5		5?		sw.	rain	rain	h'vy	sw.	clear?
S. S. P. Caland, N. 46° 32′, W. 34° 10′	29.39	746.5	47.1	8.4	89	sw.			8		10		wnw.			7	wsw.	stormy.
S. S. Rotterdam, N. 42° 28′, W. 54° 44′†	30.14	765.6	35.1	1.7	90	n.			5		8		nw.	0	0	5	n.	cloudy.
S. S. W. A. Scholten, Rotterdam, Nethlands*	30.06	763.5	46.4	8.0	92	wsw.			6		9		wsw.	0	0			fair.
S. S. Zaandam, N. 40° 42′, W. 70° 20′	30.21	767.3	49.5	9.8	79	e.			3		9 h		e.	10 h'r	10 h'r	2	e.	cloudy.
S. S. Caracas, Curacao, Venezuela†	30.02	762.5	79	26.1	86	ese.			4		2			0	0		ese.	fine.
S. S. Claudius, Belize, Honduras†	30.05	763.3	79.0	26.1	95	ene.			1		4		ene.	0	0			clear.
S. S. Valencia, N. 22° 39′, W. 69° 15′†	30.23	767.8	77	25.0	69	e.			6		1		e.	0	0	mod.	e.	fine.
S. S. State of Florida, N 55° 43′, W. 16° 14′	29.41	747.0	45	7.2		w.			6		8?		w.	24 h'r	24 h'r	h'vy	w.	clear.?
S. S. Romano, Hull Roads, Eng*	29.99	761.7	44	6.7		sw.			6		9		sw.	0	0	h'vy	s.	threatening.
S. S. Salerno, Hull, Eng†	29.85	758.2	45	7.2		s.			3		5?		s.	3 h'r	3 h'r	r'gh	se.	cloudy.
S. S. Brooklyn, N 43° 12′ W. 64° 24′			23	— 5.0		n.			4				n.	4 h'r	4 h'r	h'vy	w.	cloudy.
S. S. Surrey, N. 40° 48′, W. 70° 35′ †	30.24	768.1	30	2.2		w.			4		8		w.	4 h'r	4 h'r	sm'h		cloudy.
S. S. Olbers, Lisbon, Portugal *†...	30.30	769.6	60	15.6		nnw.			4		5		ssw.	7 h'r	7 h'r	h'vy	var.	showery.
S. S. Plantyn, N. 46° 32′, W. 38° 59′									8		6		wnw.	0	0	high	wnw.	
S. S. Aries, N. 40° 00′, W. 73° 40′*†	30.11	764.8				ene.			5		10			3 h'r	3 h'r	mod.	ene.	raining.
S. S. Catherine Whiting, Shinnecock, N. Y†	30.27	768.8	50	10.0		ene.			6					rain	rain	light	ese.	
S. S. Saxon, N. 42° 32′, W. 69° 56′ †	30.10	764.5				ene.			6		10							snow & hail
S. S. Britannic, N. 48° 00′, W. 36° 16′ †	29.39	746.5	45	7.2	100	wsw.			6		10		wsw.	4 h'r	4 h'r	cross	var.	hailing.
S. S. Celtic, N. 40° 35′, W. 41° 04′†	29.43	747.5	40	4.4		w.			8		8		w.	snow	snow	high	nw.	snowy.
S. S. Republic, N. 51° 16′, W. 12° 58′†	29.88	758.9	44	6.7	84	w.			6		8		w.	6 h'r	6 h'r	6	w.	hailing.
S. S. Auckland, N. 3° 30′, W. 28° 46′	29.95	760.7	79	26.1	86	nne.			3		6							blue sky.
S. S. Chamois, N. 20° 10′, W. 40° 26′	30.25	768.3	66.5	19.2	92	sse.			6		5							d. clouds.
Bk. Commewyne, N. 47° 55′, W. 12° 38′*	30.03	762.7	46.2	7.9	70	wsw.			6		2							squally.
S. S. City of Agra, N. 28° 52′, W. 45° 10′	30.10	766.8	70	21.1	72	nnw.			4		5							d. clouds.
S. S. Ptolemy, N. 6° 19′, W. 45° 45′	29.97	761.2	77.5	25.3	95	nne.			6		8							d. clouds.
S. S. Antonio Lopez, N. 23° 11′, W. 82° 03′	30.04	763.0	74	23.3	90	e.			3		2			0	0	sm'h		clear.
Bg. Abbie Clifford, Cardenas, Cuba, W. I†	30.00	764.3	72	22.2		e.			1		2		n.	0	0			fine.
Bk. Aquidneck, N. 30° 08′, W. 42° 01′*†	30.30	769.6				var.			2				nw.	light	light	light	n.	clear.
Bg. Alcira, Maracaybo, Venezuela, S. A.	29.90	761.0	83	28.3		ne.			2		3		ne.	0	0			clear.
Schr. Annie A. Horton, Tampico, Mexico†	29.91	759.7	77	25.0		nne.			2		10		nne.	0	0	sm'h		misty.
Schr. Annie R. Lewis, St. Pierre, Martinique, W.I†	30.13	765.3	78	25.6		ene.			1		5?		e	1 h'r	1 h'r			cloudy.?
Schr. Annie Thorman, N. 16° 16′, W. 38° 17′*	30.18	766.6	71.8	22.1	74	e.			5		9kn		e.	sh's	sh's	r'gh	ne.	rainy.
Bk. Aureola, Swansea, Wales*†	29.85	758.2	59	15.0		wsw.			5		5		w.	5 h'r	5 h'r			fair.
Bk. Achille F., Queenstown, Ireland†	29.85	758.2	42	5.6	91	w.			6		3		w.	0	0	sm'h		fine.
Bg. Annie R. Storer, N. 6° 05′, W. 48° 12′						ne.			5		8		ne.	1 h'r	1 h'r	r'gh	nne.	squally.
S. Armenia, N. 5° 05′ W. 28° 40′*	29.90	759.4	79	26.1	91	ne.			4		3		var.	½ h'r	½ h'r	mod.	ne.	clear
S. S. Burswell, N. 51° 30′, W. 60° 52′*†	29.82	757.4	51	10.6		wsw.			6		6		wsw.	4 h'r	4 h'r	high	sw.	squally.
S. S. Benledi, N. 49° 10′, W. 8° 40′ *	29.92	760.0	50	10.0	80	wsw.			4–5		5		wsw.	sh'rs	sh'rs	h'vy	wsw.	squally.
Bk. Baro, N. 7° 30′, W. 26° 30′			78	25.6		ene.			4		3		ene.	0	0	sm'h	ne.	hazy.
Bk. Pilgrim, N. 28° 12′, W. 42° 10′*†	30.20	767.1				sw.			4		3		sw.	½ h'r	½ h'r	r'g'h	ne.	fair.
Bk. Champion, N. 45° 52′, W. 20° 26′†	29.96	761.0	54	12.2		w.			6		8		w	4 h'r	4 h'r	long	w.	fair.
Bkt. C. S. Bushnell, Alicante, Spain	30.46	773.7				e.			2		1		ne.	0	0	sm'h		fine.
S. Cornelius, N. 54° 33′, W. 22° 30′*†	29.34	745.2	42.1	5.6		wsw.			7		6		w.	hail	hail	h'vy	w.	squally.
Bk. Commerce, Cadiz, Spain †	30.33	770.4	64	17.8		n.			1		0			0	0			
Bk. Ceres, N. 2° 03′ W., 25° 50′*	29.96	761.0	80.8	27.1	80	ene.			3		9		var.	0	0	sm'h	var.	cloudy.
Bk. Chas. Stewart, N 23° 07′, W. 39° 58′†	30.31	769.9	75	23.9		s.			6		6		var.	rain	rain	r'gh	ese.	light rain.
S. S. D. J. Foley, N. 29° 29′, W. 74° 13′*†	30.22	767.6	72	22.2	100	sse.			3		2		ese.	0	0	sm'h	sse.	clear.
Schr. Edith R. Seward, Palenque, Hayti, W. I†	30.08	764.0	78	25.6		ene.			3		3		ene.	0	0	mod.	e.	clear.
S. E. J. Spicer, N. 38° 50′, W. 26° 50′	30.40	772.1	56	13.3	93	sw.			3		7		wsw.	sq'lls	sq'lls	long	nw.	cloudy.
Schr. F. E. McDonald, N. 30° 52′, W. 73° 50′†	30.26	768.6	71	21.7		ssw			1		0			0	0		ese.	fine.
S. S. Foscolio, N. 48° 30′, W. 6° 07′†	30.10	764.5				wsw			8		10		sw.	0	0	high	w.	cloudy.
S. Festina Lente, N. 54° 38′, W. 22° 36′	29.38	746.2	39	3.9		wsw.			8		7		w	8 h'r	8 h'r	hv'y	w.	fair.
Bk. Grey Eagle, N. 30° 20′, W. 75° 20′*†	30.00	762.0				sw.			3		5		wnw	0	0	light		foggy.
Bg. George, N. 39° 54′, W. 73° 00′*†	30.22	767.6				ese.			4		10		e.	rain	rain	short	ese.	rainy.
Schr. Hattie Weston, Mayaro, Trinidad, W. I *†	30.07	763.8	80	26.7		ene.			3		10		ene.	0	0	mod.	e.	cloudy.
Bk Hattie G. McFarland, Pascagoula, Miss*†	30.11	764.8	66	18.9		ese.			4		2		ese.	0	0			fair.
Bk. Horace Scudder, N. 18° 33′, W. 41° 36′ *†..	30.19	766.8	76	24.4		e.			3		9		e.	sq'lls	sq'lls	long	ese.	cloudy.
Schr. Isabel Alberto, N. 32° 50′, W. 73° 25′ †	30.18	766.6				sw.			3		0			sh'rs	sh'rs	long	sse.	clear.
S. S. J. W. Wilson, Lobos Island, Mexico*†...	29.78	756.4	70	21.1		se.			3		8		se.	0	0	cross	var.	hazy.
Schr. John L. Thomas, N. 25° 27′, W. 79° 50′*†	30.22	767.6				e.			3		1		ese.	0	0	short	e.	clear.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe*†	30.20	767.1							1		2		ese.	0	0			clear.
Bg. Lillian, Mouth Rappahannock river, Va †	30.12	765.0	47	8.3		calm			0		10			0	0			foggy.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.08	764.0				se.			1		2			0	0			fine.
S. S. Madrid, N. 50° 47′, E. 0° 43′ *†	30.18	766.6	49	9.4	85	ssw.			5		5		wsw.	5 h'r	5 h'r	mod.	ssw.	fair.
Bk. Mary A. Troop, Sharpness Point, Eng*†	30.20	767.1				wnw.			3		3		nw.	4 h'r	4 h'r			clearing.
Bk. Matilda C. Smith, Rotterdam, Nethlands†	30.16	766.1				s.			5		5		ssw.	4 h'r	4 h'r	mod.		threatening.
Bgt. Myrtle, St. Thomas, W. I						ene.			2		1		ene.	8 h'r	8 h'r			fair.
S. M. P. Grace, N. 33° 37′, W. 42° 30′ *..	29.99	761.7	64	17.8		w.			4		3		ne.	sli't.	sli't	long	n.	
S. S. Mendoza, N. 30° 44′, W. 52° 34′*†	30.25	768.3				ne.			2		0?		ne.	0	0	mod.		clear.?
Bkt. Norena, Matanzas, Cuba, W. I*†	30.12	765.0				calm			0		1		s.	½ h'r	½ h'r			fine.
Schr. Ocean Traveler, N. 28° 52′, W. 75° 53′						var.			3		1							clear.
Bk. Ottawa, N. 37° 55′, W. 0° 45′*	30.33	770.4	61	16.1		sw.			2		2		nw.	0	0	sm'h		clear.
S. S. Raleigh, off Shinnecock Light, N. Y†	30.11	764.8	32	0.0		ne.			3		10			0.7	18.			
Bk. Reindeer, N. 14° 05′, W. 61° 12′*..	30.00	762.0				ene.			6				ene.					clear.
S. Rudolph, N. 24° 07′, W. 40° 19′			69.5	20.8		var.			3		5		var.	14 h'r	14 h'r	mod.	e;s	rainy.
Bk. Sunbeam, N. 33° 31′, W. 17° 37′	30.40	772.1	66	18.9	78	calm			0		2		se.	0	0	long	wnw.	clear.
Bk. Scud, N. 27° 47′, W. 70° 32′*†	30.23	767.8				se.			4		1		se.	0	0	mod	se.	clear.
Schr. S. B. Hubbard, N. 38° 41′, W. 74° 41′*†	30.14	765.5	52	11.1		calm			0		fg.			rain	rain	high	ne.	foggy.
Bk. Usko, N. 47° 44′, W. 10° 13′*†	30.12	765.0				w.			7		6		w.	1 h'r	1 h'r	h'vy	w.	fair
S. Vincenzo Accame, N. 38° 40′, W. 51° 45′*†	30.04	763.0	60.8	16		w.			4		10		w.	5 h'r	5 h'r	r'gh	nw.	rainy.
Schr. Viola Reppard, Tybee Island, Ga†	30.08	764.0	64	17.8		calm			0		10		calm	0	0			foggy.
Schr. Wm. Wier, Pointe a Pitre, Guadeloupe, W. I.†	30.11	764.8				e.			1		2		e.	0	0			fine.
S. Wm. Woodbury, N. 61° 35′, W. 19° 30′			43	0.1		sw.			7		10		sw.			high	sw.	cloudy.
S. S. Colon, N. 23° 34′, W. 74° 11′†	30.15	765.8	70	24.4		e.			5		3		e.	0	0	mod.	e.	clear.
S. S. Ambrose, N. 24° 02′, W. 95° 11′†	30.32	770.1	70	24.4		en			3		0			0	0	4	e.	fine.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mil.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mil.			
District No. 2.—South Atlantic.																		
H. M. S. Heroine, S. 42° 17′, W. 59° 25′	29.62	752.3	60	15.6	100	nne.			4–6		10	w.				2	e.	raining.
H. M. S. Starling, S. 7° 53′, E. 10° 41′	29.94	760.5	82.8	28.2	81	sse.			2		1					1	ssw.	blue sky
U. S. S. Brooklyn, Montevideo, Uruguay*	29.95	760.7	71	21.7	80	ne.	14	6.3			10		calm	0	0			cloudy.
U. S. S Galena, Montevideo, Uruguay*	29.97	761.2	71	21.7	90	ne.			2		8		ne.			sm'h		fair.
S. S. Grecian, S. 34° 56′, W. 56° 13′*	29.98	761.5	75	23.9	68	ne.			1		7		ne.	0	0	sm'h		cloudy.
S. S. Hevelius, Montevideo, Uruguay	30.14	765.5	73	22.8		e.			4		8		ssw.	0	0			cloudy.
S. S. Caldew, S. 14° 27′, W. 7° 18′	30.13	765.3	77	25.0	77	ese.			6		3							d. clouds
S. S. May Hulse, S. 57° 22′, W 62° 18′	29.81	757.2	40	4.4	73	sw.			5		10							overcast.
Bk. Edmund Phiney, S. 56° 33′, W. 65° 45′ †	30.00	762.0	46	7.8		nnw.			2		3			sli't	sli't	long	sw.	fair.
Bk. E. L. Pettingill, S. 29° 32′, W. 28° 26′*†	30.20	767.1	80	26.7		n.			3		2		ne.	0	0	sm'h		
S. E. B. Sutton, S. 25° 40′, W. 42° 00′†	29.93	760.2	79	26.1	91	ne.			1		9		n.	1 h'r	1 h'r	sm'h	ne.	light rain.
S. Grecian, S. 21° 24′, W. 30° 35′†	30.19	766.8	80	26.7	82	ne.			5		2		e.	0	0	sm'h		clear.
S. Geo. Stetson, S. 57° — W. 69° — *†	29.90	759.4	44	6.7	92	w.			4		3?		w.	0	0	h'vy	wsw.	cloudy.?
S. Titan, S. 30° 20′, W. 46° 50′ *†	30.00	762.0	80	26.7	78	se.			1		2		se.	0	0	mod.	ne.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay †	30.02	762.5	71	21.7		nne.			3		7		ne.	0	0			fair.
District No. 3—North Pacific.																		
S. S. Mexico, N. 27° 05′, W. 110° 42′ †	29.88	758.9	60	15.6	71	wnw.			3		0					sm'h		clear.
S. S. Belgic, Yokohama, Japan*†	30.21	767.3	47	8.3	48	n.			2		10?			0	0			clear?
S. S. Coptic, N. 38° 16′, W. 145° 23′	29.90	759.4	55.0	12.8	68	se.			5		9		se.	4 h'r	4 h'r	mod.	con.	overcast.
S. S. Gaelic, N. 46° 06′, W. 165° 42′	30.09	764.3	33	0.6	7	nnw.			6		9		nw.	5 h'r	5 h'r		nnw.	cloudy.
S. S. Oceanic, N. 33° 51′, E. 155° 30′ *	30.03	762 7	51	10.6	86	wnw.			7–8		4		w.			h'vy	w.	squally.
S. S. Columbia, N. 40° 28′, W. 124° 36′†	30.01	762.2	44.5	6.9	80	nnw.			6		8		nw.			r'gh	nw.	squally.
S. S. Mississippi, N. 48° 27′ W. 124° 51′	29.94	760.5	36	2.2	80	sw.			2		5		sw.			mod.	w.	fair.
S. S. Willamette, Seattle, Wash. Ter.			30	−1.1	100	calm			0		4		ne.	snow	snow			foggy.
S. S. Ancon, San Francisco, Cal†	29.90	759.4	42	5.6	66	w.			3		2		w.					fair.
S. S. City of Chester, Near Point Arenas, Cal *†	29.98	761.5	44	6.7	84	se.			6		5		se.	rain	rain	h'vy	sw.	squally.
S. S. G. W. Elder, Seattle, Wash. Ter†	29.92	760.0	36	2.2	80	calm			0		0			snow	snow	sm'h		clear.
S. S. Orizaba, N. 34° 26′, W. 120° 26′*†	29.96	761.0	56	13.3	87	nw.			8				wsw.	h'vy	h'vy	r'gh	nw.	cloudy.
S. S. Queen of the Pacific, N. 43° 42′, W. 124° 36′†	29.98	761.5				nw.			3		5?							cloudy?
S. S. City of New York, N. 35° 37′, W. 126° 00 †	30.09	764.3	55	12.8	62	wnw.			5		2		wnw.	sleet	sleet	h'vy	wnw.	clear.
S. S. City of Pekin, Hong Kong, China †	29.98	761.5	65	18.3	89	ne.			1		10		e.					cloudy.
S. S. City of Tokio, N. 37° 40′, W. 125° 21′ †	30.04	763.0	46	7.8	77	n.			6		10		n.	hail	hail	mod	nnw.	squally.
S. S. City of Rio de Janeiro, N. 11° 45′, W 87° 46′			79	26.1	78	ene.			4		0			0	0	mod.	ne.	clear.
S. S. Colima, Acajutla, San Salvador†	29.89	759.2	81	27.2	91	ne.			2		2		ne.	0	0	sm'h	s.	clear.
S. S. Granada, N. 24° 47′, W. 112° 22†	29.93	760.2	61	16.1	77	nw.			5		3		nw.	0	0	mod.	wnw.	clear.
S. S. Zealandia, N. 23° 12′, W. 154° 08′	29.95	760.7	70	21.1	95	se.			4		10					mod.	se.	cloudy.
H. M. S. Curacoa, N. 34° 54′, E. 139° 23′	30.18	766.6	46.5	8.1	41	n.			3–5		10							drizzling.
H. M. S. Himalaya, N. 6° 53′, E. 108° 48′	29.95	760.7	78	25.6	86	nne.			1–2		5					1	ne.	d. clouds
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.82	757.4	74	23.3		sw.			2–4		5							d. clouds.
H. M. S. Swiftsure, N. 2° 50′, W. 108° 44′	29.88	758.9	76	24.4	100	var.			1		2		n.					d. clouds
U. S. Naval Hospital, Yokohama, Japan*	30.36	771.1	37.5	3.1	62	n.			1		10			light	light			light snow.
U. S. S Independence, Mare Island, Cal	30.00	762.0	38	3.3	90	nw.			2		0			0.12	3.0			clear.
U. S. S. Lackawanna, Honolulu, Sandwich. Islands*	29.81	757.2	76	24.4	82	sw.			3		8		sw.					cloudy
U. S. S. Monocacy, N. 22° 13′ E. 114° 37′	29.95	760.7	66	18.9	89	ssw.			1		2		calm			sm'h		fair.
U. S. S. Palos, Tientsin, China†	30.20	767.1	31	− 0.6	100	n.			1		10		calm					snowing.
U. S. S. Ranger, San Francisco, Cal	29.97	761.2	42	5.6	74	nw.			1		2			0.71	18.0	sm'h		fair.
U. S. S. Richmond, Hong Kong, China*	29.88	758.9	65	18.3	94	calm			0		0			0	0			clear.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.77	756.1	75	23.9	90	s.			4		2		s.			sm'h		fair.
S. S. Scotia, N. 15° 35′, E. 114° 57′	29.95	760.7	77.6	25.3	84	ene.			3		2							blue sky.
S. Henry Failing, N. 39° 10′, W. 124° 38′ †	30.05	763.3	47	8.3		nnw.			5		5		nw.			long	nw.	rain & sleet.
S. St. Francis, N. 18° 20′, W. 124° 32′ †	30.16	766.1	68	20.0		e.			5		5		e.	0	0	long	nne.	fair
Tamega, Macao, China	30.01	762.2	66.2	19.0		calm			0		0			0	0			blue sky.
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.89	759.2	67	19.4	95	sse.			1		10							misty.
H. M. S. Kingfisher, S. 11° 28′, W. 86° 42′	29.91	759.7	75	23.9		ese.			4		6					4	ese.	d. clouds
H. M. S. Lark, S. 36° 50′, E. 174° 49′	30.01	762.2	69.3	20.7	85	calm			0		5					sm'h		d. clouds.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.83	757.7	61	16.1		nne.			2							2	nne.	d. clouds.
H. M. S. Rocket, S. 53° 40′, W. 71° 10′	30.00	762.0	50	10.0		nne.			1		5							d. clouds
H. M. S. Sylvia, Port Angosto, Patagonia	29.99	761.7	49.2	9.6	85	wnw.			1		10							showery.
U. S. S. Essex, Callao, Peru	29.86	758.4	68	20.0	95	calm			0		10							hazy.
U. S. S. Iroquois, S. 31° 52′, W. 100° 54′	30.18	766.6	70	21.1	80	e.			2		2		se.			sm'h	s.	clear.
U. S. S. Onward. Callao, Peru*†	30.00	762.0	68	20.0	90	sse			2		5		n.					fair.
U. S. S. Pensacola, S. 17° 30′, W. 75° 48′*	29.79	756.7	74	23.3	72	sse.			2		10		sse.	light	light	mod.	sse.	misty.
British Merchant, S. 30° 27′, W. 135° 16′	30.02	762.5	72	22.2	80	se.			4		4							d. clouds.
Bk. Childwall, S. 17° 00′, W 137° 00′ *	29.80	756.9	78	25.6		var.			1–2		3			0	0	light	sw.	fine.
Bk. Gronsvaer, Auckland, N. Z †	29.99	761.7	74.6	23.7		ne.			3		2		n.	0	0			fair.
Bk. Godeffroy, S. 20° 26′, W. 71° 29′ *	29.72	754.9				ssw.			3		8		ssw.	0	0	mod.	sw.	cloudy.
S. S. Australia, Sydney, N. S. W *	29.45	748.0	71	21.7	80	calm			0		3		sw.	0	0			clear.
S. S. City of Sydney, Sydney, N. S. W †	30.11	764.8	71	21.7	85	se.			2		8		se.	0	0			cloudy.
H. M. S. Gannet, S. 7° 30′, W. 80° 40′	29.85	758.2	72	22.2	90	s.			3		5		ne.			2	s.	misty.
Bk. Warden Law, S. 31° 02′ W. 87° 50′*	30.30	769.6				ese.			3		2		ese.	0	0	sm'h	ssw.	fair.
S. Sovereign of the Seas, S. 55° 08′, W. 82° 42′ *†	29.70	754.4	48	8.9	92	wnw.			6		9		nw.	4 h'r	4 h'r	high	nw.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 6° 10′, E. 39° 11′	29.83	757.7	87	30.6		nne.			2		3	nne.		0	0	1	nnw.	d. clouds
H. M. S. Eclipse, N. 28° 59′, E. 50° 48′	29.94	760.5	64	17.8		wnw.			1–2		3	sse.		0	0			d. couds.
H. M. S. London, Zanzibar, Zanzibar	29.86	758.4	82	27.8		ene.			1		3			0	0	1	nne.	d. clouds.
H M. S. Woodlark, N. 26° 30′, E. 53° 07′	29.96	761.0	72.5	22.5	76	ese.			1–2		6	sw.		0	0	2	se.	d. clouds.
S. S. Galatia, N. 13° 15′, E. 43° 24′ †	29.92	760.0	78	25.0	90	se.			4		3		se.	1½h'r	1½h'r	sm'h		fair.
Bk. Essex, S. 35° 08′, E. 21° 14′ *†	30.00	762.0	74	23.3		sw.			3		8		s.	0	0	h'vy	w.	cloudy.
Bkt. Josephine, S. 34° 22′, E. 24° 52′†	29.98	761.5	77	25.0	73	sw.			5		2			0	0	mod.	ssw.	clear.
S. Sacramento, S. 45° 10′, E. 34° 32′ *†	29.84	757.9	50	10.0	93	ne.			6		10			4 h'r	4 h'r	mod.	nw.	rainy.

International Chart I. February 15, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B.Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 16, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec.	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.44	773.1	59.0	15.0	85	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.42	772.7	58.6	14.8	76	wnw.	.....	.....	3	.....	6	.....	.....	0	0	cloudy	Thève.
La Calle	.....	.....	30.30	769.5	57.9	14.4	76	w.	.....	.....	3	.....	4	.....	.....	0.315	8.0	cloudy	Fonfrède.
Tunis	.....	.....	30.31	769.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.42	772.6	62.2	16.8	64	sw.	.....	.....	2	.....	3	.....	.....	0	0	pretty fair	Pérès.
Tebessa	.....	.....	30.39	772.0	49.3	9.6	69	nw.	.....	.....	1	.....	4	.....	.....	0	0	cloudy	Dognon.
Geriville	.....	.....	.....	.....	57.6	14.2	12	nnw.	.....	.....	1	.....	1	.....	.....	0	0	pretty fair	Forfert.
Laghouat	.....	.....	30.41	772.5	61.5	16.4	35	ssw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.42	772.6	64.4	18.0	26	nw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.78	756.4	29.87	758.7	65.0	18.3	67	ssw.	20	8.9	.....	.....	10	.....	.....	0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.70	754.3	30.27	768.8	43.2	6.2	55	e.	.....	.....	2	.....	4	.....	.....	0	0	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	29.56	750.8	30.38	771.6	27.0	— 2.8	92	ene.	14.3	6.4	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.41	747.1	30.35	770.8	30.6	— 0.8	75	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.00	736.6	30.31	769.8	35.4	1.9	75	e.	.....	.....	1	.....	10	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.82	732.1	30.35	770.8	28.0	— 2.2	71	sse.	.....	.....	5	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.88	733.6	30.30	769.5	32.5	0.3	92	calm	.....	.....	0	.....	10	.....	.....	0.185	4.7	gloomy	The Staff.
Lemberg	29.45	748.1	30.52	775.3	23.7	— 4.6	63	se.	.....	.....	2	.....	1	.....	.....	Inap.	Inap.	.....	Dr. T. Stanecki.
Neu Schmecks	26.74	679.3	30.19	766.9	40.3	4.6	62	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.04	762.9	30.15	765.8	49.6	9.8	80	sw.	.....	.....	1	.....	4	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.82	757.3	30.28	769.1	37.0	2.8	53	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	30.04	762.9	30.34	770.5	32.4	0.2	71	se.	.....	.....	3	.....	0	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.04	763.0	30.14	765.5	50.4	10.2	67	calm	.....	.....	0	.....	1	.....	.....	0	0	.....	Royal Academy.
Vienna	29.57	751.1	30.32	770 1	37.0	2.8	67	se.	.....	.....	1	.....	2	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.17	766.3	30.27	768.8	40.4	4.7	77	s.	15	6.7	.....	.....	1	.....	.....	0.065	1.6	blue sky	W. Boswell
Armagh, Observatory	30.02	762.5	30.27	768.8	45.1	7.3	75	s.	21	9.4	.....	.....	3	.....	.....	.....	.....	squally	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.42	772.7	47.7	8.7	65	sw.	12	5.4	.....	.....	3	.....	.....	.....	.....	blue sky	John Hartnup.
Bolton, Sharples	29.89	759.2	30.44	773.2	42.8	6.0	86	ssw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	blue sky	Thomas Mackereth.
Bradford, Yorkshire	30.01	762.2	30.40	772.1	44.5	6.9	73	sw.	.....	.....	2	.....	7	.....	.....	0	0	d. clouds	McLandsborough&Preston.
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	81.0	27.2	62	Le.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C
Cardington	30.38	771.6	30.49	774.4	48.0	8.9	72	w.	.....	.....	0.6	.....	0	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E.	30.37	771.4	30.51	774.9	44.7	7.1	67	calm	.....	.....	0	.....	2	.....	.....	blank	blank	misty	Corpl. G. A. Pickles.
Falmouth, Observatory	30.27	768.8	30.51	774.9	47.9	8.8	62	s.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.69	703.3	29.92	760.0	70.0	21.1	84	calm	.....	.....	0	.....	10	.....	.....	.....	.....	overcast	Corpl. F. Milner, A. H. C.
Freetown	29.64	752.8	29.88	758.9	86.0	30.0	91	n.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	30.14	765.5	30.18	766.6	47	8.3	77	sw.	.....	.....	5	.....	8	.....	.....	0.13	3.3	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.28	769 1	30.34	770.6	66.2	19.0	93	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	30.09	764 3	30.29	769.4	44.3	6.8	75	s.	.....	.....	1	.....	3 k	.....	.....	blank	blank	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.33	770.4	30.51	774.9	42.2	5.7	69	w.	.....	.....	1	.....	3	.....	.....	.....	.....	misty	The Staff.
Guernsey	30.26	768.6	30.57	776.5	51.5	10.8	56	nw.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.48	774.2	30.52	775.2	43.9	6.6	67	w.	7	3.1	.....	.....	0	.....	.....	.....	.....	blue sky	The Staff.
Leicester, Museum	30.21	767.3	30.48	774.2	46.8	8.2	69	w.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	J. C. Smith.
Malta, Mediterranean	30.10	764.5	30.17	766.3	58.4	14.7	86	ne.	.....	.....	2	.....	9	.....	.....	0.49	12.4	overcast	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.18	766.6	30.22	767.6	76.5	24.7	93	e.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.92	760.0	30.46	773.7	47.2	8.4	73	sw.	.....	.....	3	.....	2	.....	.....	.....	.....	misty	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	30.28	769.1	30.51	774.9	45.0	7.2	67	wsw.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	The Staff.
Plymouth	30.44	773.2	30.51	774.9	47.0	8.3	79	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	John Merrifield.
Sandwick Manse, Orkneys	30.01	762.2	30.11	764.8	42	5.6	83	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.25	768.3	30.32	770.1	33.4	0.8	85	nne.	.....	.....	3	.....	10	.....	.....	.....	.....	gloomy	W. H. Lyne.
Sheffield	30.15	765.8	30.43	772.9	48.9	9.4	65	wsw.	.....	.....	2	.....	1	.....	.....	0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.33	770.4	30.36	771.1	48.2	9.0	72	sw.	.....	.....	2	.....	0	.....	.....	0.040	1.0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.43	772.9	45.0	7.2	66	sw.	10	4.5	.....	.....	7	.....	.....	.....	.....	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	30.31	769.9	30.54	775.7	45.8	7.7	63	nw.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.42	772.7	30.48	774.2	53	11.7	90	s.	.....	.....	6	.....	5	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.08	764.0	30.11	764.8	48.9	9.4	71	sse.	45	20.1	.....	.....	10	.....	.....	blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.81	757.2	30.20	767.1	57.9	14.4	66	wsw.	3.7	1.7	.....	0	7 cn	.....	wsw.	0.083	2.1	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	15	— 9.4	.....	calm	0	0	.....	.....	10 n	.....	.....	0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.45	773.4	30.49	774.4	10	—12.2	83	se.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.41	772.4	30.47	773.9	12	—11.1	87	w.	1	0.4	.....	.....	10 s	.....	W.	0	0	cloudy	G. A. Blair.
Cornwall	29.88	758 9	30.08	764.0	25.7	— 3.5	100	e.	.....	.....	1	.....	10 s	.....	.....	0	0	overcast	Jas. Smith, M. A.
Dalhousie	30.36	771.1	30.41	772.4	10.5	—11.9	.....	calm	.....	.....	0	.....	10 s	.....	.....	0	0	overcast	H. A. Johnson.
Father Point, Quebec*	30.29	769.4	30.31	769.9	17	— 8.3	91	calm	0	0	.....	.....	10 n	.....	calm	0.08	2.0	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.26	743.2	30.22	767.6	—12	—24.4	54	n.	24	10.7	.....	0	0	.....	.....	0.32	8.1	clear	James Stewart.
Fredericton	30.38	771.6	30.45	773.4	15.1	— 9.4	81	e.	1	0.4	.....	.....	10 s	.....	.....	0	0	overcast	Prof. Harrison, L. L. D.
Granton	28 75	730.2	29.80	758.4	42.0	5.6	100	se.	5	2.2	.....	.....	10 n	.....	.....	0.20	5.1	raining	Jas. Grant.
Halifax, N. S*	30.38	771.6	30.52	775.2	18	— 7.8	96	w.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	A. Allison.
Hamilton	29.49	749.0	29.89	759.2	34.7	1.5	94	e.	.....	.....	1	.....	10	.....	.....	0	0	misty	Geo. Dickson, B. A.
Kingston, Ontario*	29.72	754.9	30.00	763.5	30	2.2	92	ne.	4	1.8	.....	.....	10 s	.....	.....	Inap.	Inap.	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.92	760.0	30.14	765.5	25	— 3.9	96	e.	8	3.6	.....	.....	10 n	.....	.....	0.08	2.0	light rain	C. H. McLeod, C. E.
Ottawa	29.83	757.7	30.09	764.3	26.0	— 3.3	92	e.	.....	.....	1	.....	10 s	.....	.....	0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.13	739.9	29.85	758.2	33	0.6	100	se.	18	8.0	.....	.....	10 n	.....	se.	0.09	2.3	light rain	Rev. R. Mosley.
Peterboro	29.18	741.2	29.96	761.0	35.7	2.1	100	calm	.....	.....	0	.....	10 n	.....	.....	Inap.	Inap.	raining	J. Dixon, B. A.
Port Dover, Ontario	29.20	741.7	29.90	759.4	40	4.4	100	e.	4	1.8	.....	.....	10 n	.....	sw.	0.04	1.0	threatening	H. Morgan.
Port Stanley, Ontario	29.23	742.4	29.88	758.9	39	3.9	96	e.	20	8.9	.....	.....	fg.	.....	.....	0.18	4.6	foggy	M. Payne.
Quebec, Quebec*	29.91	759.7	30.26	768.6	20	— 6.7	100	e.	.....	.....	1	.....	10 n	.....	.....	0.25	6.3	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.52	749.8	30.01	762.2	19	— 7.2	87	e.	6	2.7	.....	.....	10 s	.....	se.	0.10	2.5	threatening	W. H. McIntyre.
Saugeen, Ontario*	29.04	737.6	29.77	756.1	38	3.3	89	se.	23	10.3	.....	.....	10 s	.....	.....	0.43	10.9	heavy rain	
St. Andrews, N. B	30.32	770.1	30.38	771.6	27	— 2.8	94	sse.	5	2.2	.....	.....	10 n	.....	.....	Inap.	Inap.	light snow	
St. John, N. B	30.26	768.6	30.44	773.2	26	— 3.3	100	se.	5	2.2	.....	.....	10 s	.....	.....	Inap.	Inap.	overcast	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.28	769.1	14.0	—10.0	.....	w.	.....	.....	4	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	28.57	725.7	29.87	758.7	39.0	3.9	95	se.	10	4.5	.....	.....	10	.....	.....	0.185	4.7	foggy	C. J. Macgregor, M. A.
Sydney, C. B*	30.47	773.9	30.55	776.0	— 7	—21.7	95	s.	1	0.4	.....	10 cs	0	w.	.....	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.57	751.1	29.97	761.2	35	1.7	100	e.	12	5.4	.....	.....	fg.	.....	.....	0.12	3.0	light rain	Magnetic Observatory.
Windsor	30.36	771.1	30.46	773.7	16.0	— 8.9	91	e.	4	1.8	.....	.....	10 n	.....	.....	0	0	overcast	Prof. W. H. Butler, M.A.
Woodstock	28.82	732.0	29.91	759.7	36.5	2.5	99	e.	5.0	2.2	.....	.....	10 s	.....	.....	1.2	30.	foggy	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.33	770.4	30.40	772.1	27	— 2.8	77	e.	4	1.8	.....	5 ck	2 k	w.	w.	0	0	clear	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Cape Colony.																			
Cape St. Francis Lt. House	30.06	763.5	30.09	764.3	74.0	23.3	70	se.	8.0	3.6	.....	0	4 k	.....	.....	0	0	hazy.....	**John Duthie.**
Springbok Fontein	27.87	707.9	.....	.....	90	32.2	53	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**J. T. Eustace.**
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.61	625.2	.....	.....	22.6	— 5.2	.....	calm	.....	.....	0	.....	fg	.....	.....	.....	.....	foggy.....	
Tchang-kia-tchouang	30.19	766.8	30.31	769.6	29.3	— 1.5	92	sw.	.....	.....	1	.....	10	.....	.....	0	0	covered.....	R. P. Desurmont, S.J.
Zi-Ka-Wei, near Shanghai	30.04	762.9	30.06	763.5	38.8	3.8	87	n.	3.8	1.7	.....	.....	10	.....	.....	0.020	0.5	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.29	769.3	30.34	770.5	36.9	2.7	82	se.	18	8	.....	.....	10	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	30.26	768.7	30.28	769.2	41.2	5.1	94	nw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	29.47	748.5	29.51	749.6	10.9	—11.7	71	nne.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	29.01	736.9	29.03	737.4	23.9	— 4.5	.....	calm	.....	.....	0	.....	5	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.54	750.3	29.59	751.5	— 2.9	—19.4	..	e.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.77	730.8	28.82	731.9	34.5	1.4	91	se.	.....	.....	8	.....	10	.....	.....	.....	.....	snowing.....	A. O. Thorlacius.
Thorshavn	29.75	755.6	29.78	756.5	43.5	6.4	93	sw.	22	10	.....	.....	5	.....	.....	.....	.....	raining.....	Overloerer Borch.
Vestervig	30.20	767.0	30.29	769.3	40.1	4.5	97	nw.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	29.50	749.3	29.55	750.5	—17.3	—27.4	.....	e.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	29.96	760.9	30.64	778.2	44.2	6.8	71	nnw.	.....	.....	1	.....	kn	.....	.....	1.14	29.	.....	M. Labroue, Director.
Alençon, Normal School	30.04	762.9	30.59	776.9	45.3	7.4	97	n.	.....	.....	2	ck	.....	s.	s.	0.20	5.	.....	M. Nicot, Directer.
Arras, Engineer School	30.20	767.1	30.47	773.8	49.6	9.8	86	s.	.....	.....	3	.....	sn	.....	.....	0	0	.....	M. Fénéon, Command't.
Avignon, Normal School	30.27	768.8	30.35	770.8	48.9	9.4	46	nnw.	.....	.....	6	.....	2	.....	nnw.	0.08	2.	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.90	759.4	30.48	774.2	41.9	5.5	78	nnw.	.....	.....	1	.....	10	.....	n.	0.650	16.5	covered.....	M. Saillard, Director.
Beauvais, Normal School	30.25	768.4	30.53	775.4	44.8	7.1	57	n.	.....	.....	1	.....	2	.....	n.	0.071	1.8	slightly cl'dy	M. Frère Eugène Marié
Besançon, Normal School	29.50	749.4	30.45	773.5	41.9	5.5	84	se.	.....	.....	1	.....	10 n	.....	w.	0.63	16.	raining.....	M. Gobin, Director.
Bordeaux, Observatory	30.34	770.7	30.61	777.6	49.6	9.8	55	nw.	.....	.....	1	.....	2	.....	n.	0.134	3.4	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.97	761.3	30.54	775.8	45.5	7.5	64	n.	.....	.....	4	.....	k	.....	n.	0	0	.....	M. Mulet, Director.
Brest, Naval Observatory	30.33	770.4	30.58	776.6	54.0	12.2	78	s.	.....	.....	1	.....	1	.....	s.	0.087	2.2	.....	M. de Kermarec, Dir.
Caen, Normal School	30.37	771.3	30.45	773.3	48.6	9.2	72	sse.	.....	.....	1	.....	2	.....	s.	0.059	1.5	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.09	764.2	30.42	772.6	44.2	6.8	93	e.	.....	.....	1	.....	8	.....	.....	0.256	6.5	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.89	759.2	30.41	772.4	44.4	6.9	71	e.	.....	.....	1	.....	2	.....	.....	0.39	10.	¼ covered ..	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.11	739.4	30.52	775.2	43.5	6.4	74	nw.	.....	.....	2	.....	8	.....	.....	0.130	3.3	¾ covered..	M. Alluard, Director.
Cluny, Normal School	29.60	751.9	30.48	774.3	41.9	5.5	69	n.	.....	.....	2	.....	9	.....	n.	0.224	5.7	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.54	750.4	30.45	773.4	41.4	5.2	81	nw.	.....	.....	3	2 ck	.....	nw.	nw.	0.532	13.5	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.63	701.7	30.22	767.7	43.7	6.5	78	n.	.....	.....	6	.....	1	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, du Rhone	29.05	737.8	30.21	767.2	45.9	7.7	69	nw.	.....	.....	6	.....	2	.....	nw.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.62	752.3	30.42	772.6	44.2	6.8	57	nw.	.....	.....	2	.....	kn	.....	n.	0	0	.....	M. Ablard, Director.
Guéret	28.86	733.0	30.47	773.9	57.2	14	18	sw.	.....	.....	2	0	0	.....	.....	0	0	clear.....	M. Delorme, Dir.
Lamballe, Normal School	30.39	772.0	30.67	779.1	50.9	10.5	65	w.	.....	.....	1	.....	2	.....	w.	0.04	1.	slightly cl'dy	M. Olliffault, Director
Lescar, Normal School	29.98	761.5	30.56	776.2	50.4	10.2	40	sw.	.....	.....	1	0	5 k	.....	.....	0.299	7.6	cloudy.....	M. Chauvin, Director.
Lorient, Naval Observatory	30.24?	768.2?	30.35?	770.8?	52.2	11.2	68	s.	.....	.....	2	.....	2	.....	sw.	0	0	¼ covered...	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.38	746.3	30.48	774.3	40.8	4.9	67	nnw.	.....	.....	2	.....	10 n	.....	nw.	0.346	8.8	covered	M. André, Director.
Mans, Normal School	30.27	768.9	30.60	777.1	45.7	7.6	74	sse.	.....	.....	1	.....	5	.....	nw.	0.075	1.9	cloudy.....	M. Piboën, Director.
Marseille, Observatory	29.95	760.8	30.22	767.7	52.0	11.1	58	nw.	.....	.....	5.6	.....	1	.....	nw.	0.079	2.0	.....	M. Stephan, Director.
Montlouis	25 68	637.1	29.93	760.1	32.0	0.0	45	nw.	9.4	4.2	.....	.....	6	w.	.....	0.150	3.8	.....	M. Caré for Dr. Fines.
Montpellier, Normal School	30.25	768.3	30.38	771.7	52.9	11.8	57	n.	.....	.....	6	.....	0	.....	.....	0	0	clear.....	M. Galzin, Director.
Nancy, Normal School	29.51	749.6	30.32	770.2	41.7	5.4	81	w.	.....	.....	1	.....	.....	.....	.....	0.524	13.3	.....	M. Hasse, Director.
Nantes, Observatory	30.48	774.1	30.64	778.2	51.4	10.8	49	nnw.	.....	.....	0–1	2 c	1 k	.....	nw.	0.028	0.7	.....	M. Larocque, Director.
Perpignan, Observatory	30.34	770.7	30.46	773.6	50.9	10.5	40	n.	26.2	11.7	.....	.....	0	.....	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.34	541 9	.....	.....	6.1	—14.4	.....	n.	.....	.....	2	.....	1	.....	nw.	0.046	16.4	clear.....	M. Vaussenat, Director.
Privas, Normal School	29.31	744.4	30.41	772.5	43.9	6.6	49	se.	.....	.....	1	1	1	nw.	nw.	0	0	clear.....	M. Taillen.
Puy de Dôme Obs'y, Summit	25.42	645.6	.. ..	.....	23.2	— 4.9	100	nw.	.....	.....	4	.....	10	.....	.....	0.650	16.5	foggy.....	M. Alluard, Director.
Rochefort, Naval Obs'y	30.57	776.4	30.60	777.2	52.5	11.4	71	calm	.....	.....	0	.....	0	.....	.....	0	0	clear.....	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.29	769.3	30.51	775.0	49.6	9.8	69	nw.	.....	.....	1	.....	2	.....	se.	0.087	2.2	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	28.28	718 3	30.53	775.4	37.6	3.1	83	nw.	.....	.....	2	.....	kn	.....	s.	0	0	.....	M. Seger, Director.
Rouen, Normal School	30.50	774.7	30.55	775.9	47.3	8.5	59	se.	.....	.....	1	.....	2	ne.	.....	0.16	4.	slightly cl'dy	M. Mouillot.
Saint Lô	.....	.....	.....	.....	48.9	9.4	33	n.	.....	.....	1	.....	2	n.	n.	0.16	4.	slightly cl'dy	M. Delaplanche, Dir.
Saint Maur, Observatory	30.35	770.9	30.52	775.1	45.1	7.3	64	wnw.	.....	.....	2	.....	3	.....	n.	0.154	3.9	.....	M. Renou, Director.
Toulouse, Observatory	29.87	758.8	30.61	777.5	46.9	8.3	69	w.	.....	.....	3	.....	5	nw.	.....	0.386	9.8	cloudy.....	M. Baillaud, Director.
Tours	30.39	771.9	30.57	776.4	48.2	9.0	63	w.	.....	.....	1	.....	5	nw.	wnw.	0.165	4.2	cloudy.....	M. de Tastes.
Versailles, Observatory	30.02	762.5	30.51	775.0	44.6	7.0	55	n.	.....	.....	2	.....	.....	.....	.....	0.031	0.8	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.47	774.0	30.62	777.8	48.6	9.2	73	ne.	5.8	2.6	.....	0	3 k	.....	s.	0.528	13.4	.....	**M. Cartier, Director.**
German.																			
Ansbach	28.80	731.5	30.32	770.2	36.3	2.4	92	se.	.....	.....	2	.....	10	se.	.....	0	0	.....	**Prof. Jnedt.**
Bamberg	29.40	746.8	30.25	768.4	35.6	2.0	80	calm	.....	.....	0	.....	10	.....	.....	0.039	1.0	raining.....	Prof. Dr. Hoh.
Berlin	30.13	765.3	30.28	769.1	43.0	6.1	57	se.	.....	.....	3	.....	7	.....	.....	0	0	.....	**Meteorological Institute.**
Breslau	29.81	757.2	30.35	770.8	28.9	— 1.7	72	**ese.**	.....	.....	2	.....	0	.....	.....	0	0	.....	Royal University Obs'y
Carlsruhe	29.89	759 2	30.37	771.4	41.5	5.3	94	sw.	.....	.....	1	.....	10	sw.	.....	0.532	13.5	raining.....	Albert Senz.
Cassel	29.50	749.3	30.21	767.4	37.0	2.8	98	ssw.	.....	.....	1	.....	10	sw.	.....	0.197	5.0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.93	760.3	30.32	770 0	40.5	4.7	92	sse.	.....	.....	1	.....	10	.....	.....	0.213	5.4	.....	**Physical Society.**
Friedrichshafen	28.87	733.3	30.37	771.3	38.8	3.8	88	w.	.....	.....	5	.....	10	w.	.....	0.402	10.2	raining.....	Wilhelm, Chief Tel.
Hamburg	30.16	766.0	30.25	768.3	40.5	4.7	99	se.	.....	.....	1	.....	10	.....	.....	0.110	2.8	.....	E. Preller.
Kiel	30.24	768.0	30.25	768.4	40.8	4.9	94	sse.	.....	.....	1	.....	10	.....	.....	0.264	6.7	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.82	757.4	30.26	768.5	41.2	5.1	72	s.	.....	.....	1	.....	6	.....	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	30.05	763.2	30.24	768.2	40.3	4.6	79	e.	.....	.....	1	.....	5	s.	.....	0	0	hazy	**Dr. Assmann.**
Memel	30.56	776.2	30.61	777.4	21.4	— 5.9	69	se.	.....	.....	4	0	0	.....	.....	.....	.....	clear..	Isserstedt.
Munich	28.41	721.6	30.29	769.3	39.0	3.9	90	w.	.....	.....	2	.....	10	w.	.....	0.020	0.5	light rain....	**Central Station.**
Neufahrwasser	30.51	775.0	30.53	775 4	25.5	— 3.6	74	se.	.....	.....	3	.....	2	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.75	755.7	30.28	769.2	42.8	6.0	91	nnw.	.....	.....	3	.....	10	w.	.....	0.228	5.8	.....	Dicknether.
Stuttgart	29.34	745.2	30.27	768.9	39.2	4.0	87	w.	.....	.....	2	.....	10	.....	.....	0.406	10.3	raining..	Prof. Dr. Schoder.
Wustrow	30.29	769.4	30.32	770.1	38.5	3.6	85	ese.	.....	.....	2	.....	10 s	.....	.....	0	0	dense fog	Profs. Brandes & **Reimer.**
Greek.																			
Athens	29.83	757.6	30.22	767.6	47.5	8.6	.....	ne.	.....	.....	3.0	0	9 k	.....	.....	0.004	0.1	.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.86	758.5	29.91	759.8	72.9	22.7	75	wsw.	21.0	9.4	.....	.....	8	w.	.....	0	0	gloomy.....	
Deesa	29.41	747.0	29.88	759.0	86.2	30.1	9	w.	8.0	3.6	.....	.....	3	wsw.	.....	0	0	d. clouds. ...	
Bombay	29.84	758.0	29.88	758.9	80.2	26.8	74	wnw.	12.0	5.4	.....	.....	7	nw.	.....	0	0	d. clouds....	
Poona, Yarrowda	27.99	711.0	29.81	757.1	89.9	33.2	15	sw.	4.0	1.8	.....	.....	5	w.	.....	0	0	d. clouds....	
Belgaum	27.33	694.2	29.84	757 9	82.5	28.1	36	wsw.	8.0	3.6	.....	.....	1	.....	sw.	0	0	d. clouds....	
Lahore	29.16	740.7	29.92	759.9	71.8	22.1	36	calm	0	0	.....	.....	5	.....	.....	0	0	gloomy.....	
Roorkee	28.97	735.8	29.88	759.0	73.2	22.9	30	w.	.....	.....	.....	.....	4	w.	.....	0	0	.....	
Agra	29.34	745.2	29.91	759.7	78.2	25.7	27	sw.	.....	.....	.....	.....	5	.....	w.	0	0	d. clouds	
Nagpur	28.84	732.6	29.87	758.8	87.2	30.7	20	calm	3.0	1.3	.....	.....	8	w.	.....	0	0	d. clouds	
Jubbulpore	28.57	725.6	29.93	760.1	80.5	26.9	17	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky.....	
Lucknow	29.53	750.0	29.92	759.8	68.3	20.2	41	wnw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky.....	
Allahabad	29.60	751.8	29.92	759.9	69.8	21.0	40	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky.....	
Patna	29.73	755.2	29.92	760.0	69.7	20.9	46	nw.	2.9	1.3	.....	.....	0	.....	.....	0	0	blue sky.....	
Hazaribagh	27.88	708.2	29.94	760.5	66.8	19.3	28	wnw.	6.4	2.9	.....	.....	0	.....	.....	0	0	blue sky.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Cuttack	29.82	757.5	29.91	759.6	81.0	27.2	53	calm	0	0	.....	.....	3	.....	.....	0	0	d. clouds	
Calcutta, Alipore	29.90	759.5	29.92	760.0	71.5	21.9	43	calm	0	0	.....	.....	3	.....	.....	0	0	d. clouds	
Dhubri	29.81	757.1	29.93	760.2	68.7	20.4	46	calm	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.85	758.2	29.94	760.5	69.1	20.6	73	w.	2.7	1.2	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.60	751.9	29.95	760.8	63.9	17.7	78	ne.	2.3	0.9	.....	.....	6	w.	w.	0	0	d. clouds	
Jeypore	28.46	723.0	29.92	759.8	77.7	25.4	44	ssw.	3.0	1.3	.....	.....	5	.....	ssw.	0	0	d. clouds	
Bellary	28.39	721.1	.....	.....	89.6	32.0	22	se.	4	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.66	753.4	.....	.....	88.9	31.6	27	ene.	1	0.4	.....	.....	0	.....	.....	0	0	blue sky	
ITALIAN.																			
Udine	29.74	755.3	30.16	766.1	51.3	10.7	50	se.	4.3	1.9	.....	.....	5	s.	.....	0	0	.....	**Prof. Giovanni Clodig.**
Milan	29.63	752.7	30.17	766.3	46.0	7.8	89	n.	1.8	0.8	.....	.....	10	.....	.....	0.020	0.5	.....	**Prof. Schiapparelli.**
Padua	30.04	763.1	30.16	766.0	48.4	9.1	61	calm	0	0	.....	.....	10	.....	.....	0	0	.....	**Prof. Dott. Lorenzoni.**
Moncalieri	29.24	742.7	30.18	766.6	42.8	6.0	92	ne.	1.8	0.8	.....	.....	10	.....	.....	0.622	15.8	.....	**Prof. F. F. Denza.**
Genoa	29.93	760.3	30.13	765.3	49.1	9.5	69	n.	7.4	3.3	.....	.....	10	s.	.....	0.303	7.7	.....	**Prof. G. M. Garibaldi.**
Mondovi	28.23	717.0	30.23	767.9	37.6	3.1	91	w.	.....	.....	2	.....	10	.....	.....	0.248	6.3	.....	**Prof. D. C. Bruno.**
Pesaro	30.10	764.4	30.15	765.7	48.6	9.2	81	sw.	6.9	3.1	.....	.....	10	.....	.....	0	0	.....	**Prof. Luigi Guidi.**
Florence	29.87	758.8	30.13	765.4	54.1	12.3	74	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	**Prof. Costantino Pittei.**
Leghorn	29.98	761.4	30.06	763.6	54.3	12.4	82	wnw.	1.8	0.8	.....	.....	10	sw.	.....	0	0	.....	**Prof. P. Monte.**
Rome	29.95	760.7	30.13	765.2	56.1	13.4	62	w.	0.7	0.3	.....	.....	2	.....	.....	0	0	.....	**Prof. P. Tachini.**
Lecce	29.88	758.9	30.14	765.5	55.0	12.8	69	ne.	11.2	5.0	.....	.....	4	nnw.	.....	0.004	0.1	.....	**Prof. C. de Giorgi.**
Cosenza	29.25	743.0	30.16	766.1	55.4	13.0	77	sw.	3.1	1.4	.....	.....	9	w.	.....	0.307	7.8	.....	**Prof. D. Conti.**
Cagliari	29.98	761.6	30.18	766.6	53.8	12.1	82	nw.	.....	.....	2	.....	10	.....	.....	0	0	.....	**Prof. A. Pacinotti.**
Palermo	29.93	760.1	30.18	766.6	59.4	15.2	60	nw.	4.3	1.9	.....	.....	7	nw.	.....	0.083	2.1	.....	**Prof. G. Caccintore.**
Syracuse	30.10	764.4	30.14	765.5	56.5	13.6	77	s.	4.3	1.9	.....	.....	10	wsw.	.....	0	0	.....	**Sig. Vincenzo Giuliano.**
Sub-series.																			
Naples, S. R	29.63	752.5	30.16	766.0	55.4	13.0	77	sw.	0	0	.....	.....	10	n.	.....	0	0	.....	**Prof. F. Brioschi.**
Stelvio	22.15	562.6	.....	.....	20.7	— 6.3	95	ne.	.....	.....	2	.....	10	.....	.....	0.311	7.9	covered	**Prof. P. F. Denza.**
Valdobbia	22.13	562.1	.....	.....	19.4	— 7.0	66	e.	.....	.....	2	.....	10	.....	.....	0	0	covered	**Prof. P. F. Denza.**
JAPANESE.																			
Akita	29.79	756.7	29.82	757.5	35.0	1.7	94	calm	.....	.....	0	.....	10 n	.....	.....	0.465	11.8	raining	**H. Hattori.**
Awomori	29.90	759.4	29.93	760.2	34.2	1.2	87	ese.	10.7	4.7	.....	.....	10 n	.....	.....	0.126	3.2	light snow	**K. Ogawa.**
Hakodate	30.04	762.9	30.05	763.2	30.5	— 0.8	100	e.	12.0	5.4	.....	.....	10	.....	.....	0.180	4.6	snowing	
Hamamatsu	29.80	756.9	29.83	757.6	49.8	9.9	90	calm	.....	.....	0	0	9 s	.....	nw.	0	0	cloudy	
Kagoshima	29.99	761.7	30.00	762.0	54.6	12.6	86	nnw.	.....	.....	2	4 cs	5 s	nw.	.....	0.035	0.9	cloudy	**G. Miyanonasa.**
Kioto	29.68	753.9	29.86	758.4	47.5	8.6	99	nne.	1.6	0.7	.....	.....	10 s	.....	.....	0.234	5.9	cloudy	**M. Tojima.**
Kochi	29.84	757.9	29.86	758.4	60.0	15.6	88	w.	18.5	8.2	.....	0	2	.....	nw.	0.153	3.9	clear	**K. Kusunose.**
Miasaka	29.92	760.0	29.95	760.7	55.1	12.8	80	w.	.....	.....	4	0	1 ks	.....	w.	0	0	clear	**K. Masusaki.**
Nagasaki, I. M. Obs'y	29.81	757.2	30.02	762.5	49.9	9.9	88	nw.	2.7	1.2	.....	4 c;cs	5 s	w.	nw.	0.030	0.8	cloudy	**S. Takehayashi.**
Niigata	29.75	755.6	29.79	756.6	38.2	3.4	96	sse.	2.4	1.1	.....	.....	10 n	.....	.....	0.550	14.0	light rain	**M. Morita.**
Nobiru	29.73	755 1	29.74	755.5	34.5	1.4	95	nnw.	24.7	11.1	.....	.....	10 n	.....	.....	1.215	30.9	rainy	**H. Midzushima.**
Numazu	29.70	756.0	29.80	756.9	44.7	7.1	97	calm	.....	.....	0	.....	10 n	.....	.....	0.110	2.8	cloudy	**R. Kaneda.**
Osaka	29.85	758.2	29.87	758.6	46.1	7.8	99	wsw.	2.9	1.2	.....	10s;ck	.....	w.	.....	0.110	2.8	cloudy	**H. Omura.**
Sakai	29.90	759.5	29.91	759.8	47.8	8.8	94	n.	.....	.....	4	.....	10 n	.....	n.	0.409	10.4	raining	**K. Yamawchi.**
Sapporo	.....	.....	.....	.....	21.5	— 5.8	85	e.	5.8	2.6	.....	.....	10	.....	.....	0	0	covered	
Tokei Obs'y, Yeddo	29.69	754.1	29.77	756.1	34.6	1.4	98	nnw.	2.0	0.9	.....	0	0	.....	.....	0.313	7.9	clear	**The Staff.**
Wakayama	29.80	758.4	29.91	759.7	50.0	10.0	92	calm	0	0	.....	.....	10ck;ks	.....	w.	0.027	0.7	cloudy	**K. Sakai.**
MAURITIUS.																			
Mauritius Observatory	29.68	753.9	29.87	758.7	80.5	26.9	73	e.	18.0	8.0	.....	1 c;cs	4 k;n	.....	e.	0	0	fair	**Oliver & Figon.**
MEXICAN.																			
Altata	.....	.....	.....	.....	55	12.8	86	nw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	clear	**H. Diaz Pena.**
Guanajuato	23.63	600.1	29.85	758.1	56.7	13.7	82	s.	inap.	inap.	.....	0	0	.....	.....	0	0	foggy	**Prof. Vicente Fernandez.**
Leon	24.27	616.4	30.01	762.2	51.4	10.8	86	w.	.....	.....	1	1 c	0	.....	.....	0	0	clear	**Prof. M. Leal.**
Mazatlan	29.09	754.2	29.90	760.9	60.8	15.8	80	nnw.	5.3	2.3	.....	0	0	.....	.....	0	0	light haze	**F. Quijano, C. E.**
Mexico, Central Obs'y	23.04	585.3	30.14	765.5	51.8	11.0	09	calm	0	0	.....	1 c	2 ks	.....	.....	0	0	clear	**The Staff.**
Morelia	24.27	616.4	30.23	767.8	53.8	12.1	64	se.	.....	.....	2	2 c	0 k	e.	s.	0	0	cloudy	**M. Tena, M. D.**
Pabellon	23.91	607.3	29.90	761.0	52.9	11.6	55	calm	0	0	.....	0	0	.....	.....	0	0	clear	
Puebla, Catholic Institute	23.38	593.8	30.22	767.5	47.8	8.8	87	calm	0	0	.....	0	0	.....	.....	0.134	3.4	clear	**Prof. P. Spina.**
Zacatecas	22.50	571.6	30.19	766.7	50.1	10.0	64	se.	9.6	4.2	.....	0	0	.....	.....	0	0	fine	**J. A. Bonilla, M. E.**
NETHERLANDS.																			
Flushing	30.45	773.5	30.45	773.5	46.4	8.0	.....	nw.	.....	.....	4	.....	.....	.....	.....	0.012	0.3	.....	
Groningen	30.27	768.9	30.33	770.3	43.5	6.4	.....	n.	.....	.....	2	.....	.....	.....	.....	0.091	2.3	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.41	772.4	30.41	772.4	45.9	7.7	76	nnw.	.....	.....	1	.....	.....	.....	.....	c	0	.....	
Utrecht	30.34	770.7	30.39	771.9	46.9	8.3	70	nnw.	.....	.....	2	.....	5	.....	.....	0.031	0.8	cloudy	**H. van der Brink**
Sub-series.																			
Batavia, Java	29.84	757 8	.....	.....	78.8	26.0	89	nnw.	0.5	0.2	.....	.....	4	.....	.....	0.08	2.	.....	**Dr. I. P. van der Stok.**
NORWEGIAN.																			
Bergen	30.19	766.9	30.26	768.5	41.0	5.0	87	s.	9	4	.....	.....	9	.....	.....	0.394	10.0	.....	
Brono	30.04	762.9	30.08	763.9	41.0	5.0	54	sse.	.....	.....	2	.....	2	.....	.....	0	0	.....	
Christiania	30.18	766.0	30.34	770.5	35.8	2.1	91	s.	4	2	.....	.....	10	.....	.....	0.169	4.3	foggy	
Gjæsvær	30.04	763.1	30.07	763.7	34.0	0.5	.....	sse.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	
Lodingen	30.04	763.0	30.09	764.2	34.0	1.1	65	se.	.....	.....	1	.....	9	.....	.....	0.181	4.6	.....	
PORTUGUESE.																			
Angra, Azores	29.90	759.5	30.06	763.5	59.5	15.3	93	wnw.	8.1	3.6	.....	.....	7	.....	.....	0.256	6.5	.....	**Dr. J. A. Sampaio.**
Campo Major	29.44	747.8	30.40	773.7	57.2	14.0	62	e.	11.9	5.3	.....	.....	5	.....	.....	0.055	1.4	.....	**Dr. A. M. R. dos Santos.**
Funchal, Madeira	30.32	770.2	30.41	772.5	63.5	17.5	66	se.	11.9	5.3	.....	.....	0	.....	.....	0	0	.....	**Capt. D. A. de Cunha.**
Lisbon, Observatory	30.14	765.5	30.51	775.0	50.4	10.2	85	ne.	15.4	6.9	.....	.....	4	wnw.	.....	0.079	2.0	.....	**The Staff.**
Ponta Delgada, Azores	30.08	764.1	30.15	765.9	62.6	17.0	81	sw.	28.6	12.8	.....	.....	3	.....	.....	0.087	2.2	.....	
Saint Paul de Loando	29.65	753.0	29.84	758.0	84.9	29.4	78	w.	1.8	0.8	.....	.....	6	s.	.....	0	0	.....	
Serra da Estrella	25.65	651.4	30.56	776.1	38.1	3.4	82	se.	21.7	9.7	.....	.....	3	.....	.....	0.354	9.0	.....	
RUSSIAN.																			
Akmolinski	29.05	737.8	30.24	768.2	4.8	—15.1	91	sw.	27	12	.....	.....	10 n	.....	.....	0.004	0.1	.....	**Major K. Lasarew.**
Archangel	30.61	777.5	30.63	778.0	23.4	— 4.8	90	sw.	9	4	.....	.....	10	.....	.....	0	0	.....	**Capt. Sseliwerstow.**
Ashurada	30.60	777.3	30.51	774.9	32.5	0.3	94	n.	11	5	.....	.....	10 n	.....	.....	0.350	8.9	.....	
Astrakhan	30.75	781.0	30.07	778.9	21.0	— 6.1	56	nnw.	2	1	.....	.....	0	.....	.....	0	0	.....	**Capt. Wisganow.**
Baku	30.64	778.2	30.59	777.0	33.1	0.6	75	n.	4	2	.....	0	8 k	.....	.....	0	0	.....	
Barnaul	29.79	756.6	30.35	770.9	— 0.9	—18.3	82	sw.	13	6	.....	.....	9	.....	.....	0.063	1.6	.....	**Meteorological Obs'y.**
Bielosersk	30.24	768.2	30.70	781.2	19.4	— 7.0	52	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Dorpat	30.43	773.0	30.70	779.7	18.9	— 7.3	75	ssw.	4	2	.....	0	0	.....	.....	0	0	.....	**Observatory.**
Ekaterinburg	29.15	740.4	30.19	766.8	17.1	— 8.3	91	wnw.	22	10	.....	.....	10	.....	.....	inap.	inap.	snowing	**Meteorological Obs'y.**
Elissawetgrad	30.14	765.6	30.04	778.2	14.5	— 9.7	71	ne.	11	5	.....	0	2 ks	.....	.....	0	0	.....	
Irkutsk	28.72	729.5	30.59	776.9	— 4.4	—20.2	83	nnw.	.....	.....	1	.....	8	.....	.....	0.039	1.0	.....	
Kasalinsk	29.90	761.0	30.14	765.5	10.4	—12.0	66	calm	0	0	.....	0	.....	.....	.....	.....	.....	.....	
Kasan	30.22	767.5	30.52	775.1	10.3	— 8.7	70	w.	11	5	.....	0	0	.....	.....	0	0	.....	**Observatory.**
Kem	30.51	775.0	30.50	776.3	22.3	— 5.4	90	sw.	9	4	.....	.....	10	.....	.....	0	0	heavy cl'ds.	
Kertch	30.39	771.8	30.41	772.3	28.6	— 1.9	70	calm	0	0	.....	0	3 s	.....	.....	0	0	.....	**Lagorio & Sastyrez.**

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Kieff	30.02	762.4	30.72	780.3	13.1	—10.5	70	ne.	4	2	.....	0	0	.....	.....	0	0	.....	Observatory.
Koslov	30.19	766.9	30.78	781.9	6.8	—14.0	70	n.	9	4	.....	.....	0	.....	.....	0	0	.....	
Libau	30.57	776.4	30.59	777.0	26.4	— 3.1	64	se.	13	6	.....	.....	0	.....	.....	0	0	.....	E. Quaas.
Lugan	30.44	773.1	30.64	778.3	11.5	—11.4	61	ene.	9	4	.....	.....	5	.....	.....	0	0	light clouds	Meteorological Obs'y.
Moscow	30.29	769.4	30.83	783.0	16.5	— 8.6	55	calm	0	0	.....	0	c	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	30.47	773.8	30.54	775.7	18.3	— 7.6	81	ene.	18	8	.....	.....	10 n	.....	.....	0	0	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.09	764.2	30.17	766.4	2.8	—16.2	42	w.	9	4	.....	.....	0	.....	.....	0	0	.....	Iwanow.
Pekin, China	30.11	764.9	30.26	768.7	30.9	— 0.6	96	sw.	7	3	.....	.....	9 n	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	30.16	766.1	30.55	775.9	18.7	— 7.4	40	n.	1.1	0.5	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	30.45	773.5	30.67	779.0	11.3	—11.5	71	calm	0	0	.....	0	0	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	30.18	766.6	30.72	780.4	20.1	— 6.6	52	ese.	13	6	.....	0	0	.....	.....	0	0	.....	
Poti	30.28	769.2	30.30	769.7	50.4	10.2	67	calm	0	0	.....	0	7 n	.....	.....	0.173	4.4	.....	
St. Petersburg	30.72	780.3	30.74	780.7	10.6	—11.9	63	s.	7	3	.....	0	0	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.76	705.0	30.45	773 3	17.1	— 8.3	61	calm	0	0	.....	.....	9 n	.....	.....	.....	.....	.....	
Semipalatinsk	29.70	754.4	30.44	773.1	— 4.4	—20.2	80	s.	9	4	.....	.....	6	.....	.....	0.012	0.3	.....	Major Lasarew.
Sevastopol	30.13	765.4	30.37	771.3	40.6	4.8	78	nw.	11	5	.....	7 cs	0	.....	.....	0.020	0.5	.....	
Staroi Bykhov	30.36	771.2	30.87	784.1	16.9	— 8.4	43	calm	0	0	.....	0	1 ks	.....	.....	0	0	.....	Terch, A. M.
Tashkend	28.65	727.8	30.54	775.7	3.9	—15.6	74	calm	0	0	.....	cs	6 k	.....	.....	0	0	.....	Physical Observatory.
Tiflis	29.66	738.2	30.58	776.8	29.5	— 1.4	76	ese.	2	1	.....	6 ck	0	.....	.....	0	0	.....	
Vernoe	27.67	702.8	30.43	772.8	8.8	—12.9	73	calm	0	0	.....	2 c	0	.....	.....	.....	.....	.....	
Viatka	29.75	755.7	30.44	773.1	16.2	— 8.8	.....	w.	4	2	.....	.....	9	.....	.....	0	0	.....	
Vladivostock	30.10	764.4	30.16	766.1	19.0	— 7.2	68	n.	9	4	.....	0	8 k	.....	.....	0	0	.....	
Warsaw	30.07	763.8	30.53	775.4	22.6	— 5.2	74	sse.	20	9	.....	0	5 k	.....	.....	0	0	.....	Astronomical Obs'y.
Wilna	30.32	770.1	30.79	782.0	15.4	— 9.2	72	se.	4	2	.....	.....	0	.....	.....	0	0	.....	Berg, Assistant.
Yeniseisk	30.12	765.0	30.45	773.5	—14.6	—25.9	82	calm	0	0	.....	.....	1	.....	.....	0	0	lunar corona	M. O. Marks.
Scottish.																			
Monach Lt	.....	.....	29.91	759.7	47	8.3	92	sw.	.....	.....	6	.....	10	.....	.....	0.1	3.	showery	J. Youngclauss
North Unst	.....	.....	30.11	764.8	.....	.....	.....	s.	.....	.....	6	3	4	sw.	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.29	769 4	30.40	772.1	57.2	14.0	46	nw.	3.6	1.6	.....	0	0	.....	.....	0.055	1.4	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.17?	766.3?	30.23?	767.8?	55.2	12.9	59	se.	1.3	0.6	.....	2	1	e.	.....	0.331	8.4	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.55	699.7	30.66	778.8	41.0	5.0	69	n.	5.4	2.4	.....	0	2	.....	.....	0.457	11.6	light clouds	Domingo Martin.
Madrid, Royal Obs'y	28.26	717.9	30.58	776.7	48.7	9.3	54	e.	10.1	4.5	.....	0	0	.....	.....	0.031	0.8	clear	The Staff.
Murcia, Met. Obs'y	30.27	768.9	30.39	772.0	64.8	18.2	66	ssw.	1.8	0.8	.....	0	2	.....	.....	0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.68	753.8	30.50	776.1	42.8	6.0	92	e.	3.3	1.5	.....	0	0	.....	.....	0	0	clear	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.54	750.3	30.45	773.5	55.0	12.8	59	n	1.3	0.6	.....	.....	1	.....	.....	0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.94	760 5	30.00	761.9	77.8	25.4	82	ese.	17.6	7.9	.....	.....	0	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.35	770.9	30.45	773.4	63.3	17.4	56	ne.	7.5	3.4	.....	1	2	e.	e.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.03	762.7	30.12	765.0	75.6	24.2	84	se.	5.6	2.5	.....	4 cs	3 kn	e.	e.	0.087	2.2	cloudy	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	30.34	770.6	30.38	771.6	30.9	— 0.6	100	s.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Umea	30.29	769.3	30.34	770.6	30.7	— 0.7	100	sw.	.....	.....	6	.....	10	.....	.....	0	0	.....	
Hernosand	30.30	769.5	30.35	770.8	32.4	0.2	96	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Stockholm	30.30	769.6	30.48	774.1	35.6	2.0	84	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Wisby	30.39	772.0	30.45	773.5	33.8	1.0	79	sse.	.....	.....	2	.....	3	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.36	771.1	30.45	773.3	32.2	0.1	92	ssw.	11.9	5.3	.....	.....	10	.....	.....	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	28.95	735.4	30.41	772.5	42.4	5.8	58	nnw.	.....	.....	3	.....	10	.....	.....	0.094	2.4	covered	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.36	771.2	32.7	0.4	86	n.	16	7.0	.....	.....	10	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	30.18	766.6	55.6	13.1	.....	w.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.09	764.2	59.0	15.0	63	w.	.....	.....	1	.....	10 n	.....	sw.	0	0	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred L. Kingsbury.
United States.																			
Albany, New York	30.20	767.1	30.29	769.4	37	2.8	82	s.	6	2.7	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	J. O. Barnes.
Alpena, Michigan	29.00	736.6	29.71	754 6	33	0.6	100	se.	13	5.8	.....	.....	10 n	.....	.....	0.37	9.4	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.08	637.0	30.18	766.6	16	— 8.9	70	n.	5	2.2	.....	0	0	.....	.....	0.21	5.3	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.42	696.5	30.46	773.7	—17	—27.2	44	sw.	14	6.3	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.01	736.8	30.23	767.8	60.5	15.8	100	se.	7	3.1	.....	.....	fg.	.....	.....	0	0	dense fog	H. C. Smyth.
Atlantic City, New Jersey	30.28	769.1	30.28	769.1	37	2.8	100	ne.	4	1.8	.....	.....	10n; fg	.....	.....	0.60	15.2	light rain	Jas. M. Watson.
Augusta, Georgia	30.06	763.5	30.26	768.6	65	18.3	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	John Healy.
Baltimore, Maryland	30.27	768.8	30.32	770.1	40	4.4	89	e.	3	1.3	.....	.....	10s; fg	.....	.....	0.59	15.0	cloudy	Geo W Felger.
Barnegat, New Jersey	30.29	769.4	30.31	769.9	38.0	3.3	100	ne.	10	4.5	.....	.....	10n; fg	.....	.....	0.70	17.8	light rain	G. A. Hill.
Behring Id., Behring Sea	29.45	748.0	29.47	748.5	35.2	1.8	.....	s.	26	11.6	.....	.....	10 n	.....	s.	0.92	23.4	cloudy	Dr. Leonard Steinegar.
Bennett, Fort, Dakota	28.60	726.4	30.33	770.4	— 4	—20.0	100	nw.	24	10.7	.....	.....	10 n	.....	nw.	0.08	2.0	light snow	A. Pritchard.
Benton, Fort, Montana	27.49	698 2	30.49	774.4	—15	—26.1	46	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Billings, Montana	27.00	685.8	.....	.....	—10	—23.3	61	sw.	2	0.9	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	T. Gibson.
Bismarck, Dakota	28.33	719.6	30.31	769.9	—10	—23.3	100	nw.	20	8.9	.....	.....	10 s	.....	.....	0.25	6.3	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.30	769.6	30.33	770.4	33	0.6	100	e.	10	4.5	.....	.....	fg.	.....	.....	0.16	4.1	dense fog	J. T. Elker.
Boise City, Idaho	27.65	702.3	30.61	777.5	9	—12.8	91	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	30.18	766.6	30.34	770.6	30.0	— 1.1	77	nw.	3	1.3	.....	.....	10 n	.....	.....	0.02	0.5	sleeting	O. B. Cole.
Brownsville, Texas	29.66	753.4	29.71	754.6	71.0	21.7	92	s.	24	10.7	.....	0	5 s	.....	s.	0	0	fair	M. McCarty.
Buffalo, New York	29.19	741.4	29.99	761.7	48.4	9.1	90	se.	9	4.0	.....	.....	10 s	.....	sw.	0.04	1.0	cloudy	W. Finn.
Buford, Fort, Dakota	28.33	719.6	30.51	774 9	—21	—29.4	100	nw.	1	0.4	.....	0	0	.....	.....	0.27	6.9	clear	F. A. Mellen.
Burlington, Vermont	29.88	758.9	30.19	766.8	36.0	2.2	79	s.	15	6.7	.....	.....	10 s	.....	s.	0.01	0.3	cloudy	D. N. Farnell.
Cairo, Illinois	29.47	748.5	29.89	759.2	65.6	18.7	86	sw.	28	12.5	.....	hz.	4 s	.....	sw.	0.01	0.3	fair	W. H. Ray.
Cape Henry, Virginia	30.26	768.6	30.28	769.1	47	8.3	100	ne.	4	1.8	.....	.....	fg.	.....	.....	0.06	1.5	dense fog	A. K. Alderson.
Cape May, New Jersey	30.26	768.6	30.29	769 4	43.0	6.1	93	e.	8	3.6	.....	.....	fg.	.....	.....	0.50	12.7	dense fog	W. E. Smith.
Cape Mendocino, California	29.63	752.6	30.33	770.4	37	2.8	66	ne.	20	8.9	.....	0	0	.....	.....	0.14	3.6	clear	J. J. McLean.
Cedar Keys, Florida	30.18	766.6	30.20	767.1	72	22.2	84	se.	11	4.9	.....	0	2 ks	.....	s	0	0	clear	F. W. Mixer.
Champaign, Illinois	28.84	732.5	29.71	754.6	55.0	12.8	80	s.	17	7.6	.....	.....	9 s	.....	s.	0.05	1.3	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.20	767.1	30.26	768.6	60	15.6	100	sw.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.37	746.0	30.26	768.6	57.0	13.9	100	s.	4	1.8	.....	.....	fg	.....	.....	0	0	dense fog	D. O'Donoghue.
Chattanooga, Tennessee	29.31	744.5	30.17	766.3	63.0	17.2	90	s.	9	4.0	.....	0	9ks; fg	.....	s.	0.01	0.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.85	605 8	30.10	764.5	2.8	—16.2	79	n.	24	10.7	.....	.....	10 n	.....	.....	0.03	0.8	light snow	E. McGovern.
Chicago, Illinois	28.94	735.1	29.68	753.9	48.7	9.3	94	sw.	11	4.9	.....	.....	10 n	.....	.....	1.06	26.9	light rain	J. Mitchell.
Chincoteague, Virginia	30.24	768.1	30.26	768.6	42.5	5.8	100	ne.	2	0.9	.....	.....	fg.	.....	.....	trap.	trap.	dense fog	C. F. Dickens.
Cincinnati, Ohio	29.28	743.7	29.97	761.2	63	17.2	84	se.	10	4.5	.....	.....	10 s	.....	s.	0.01	0.3	cloudy	R. B. Watkins.
Cleveland, Ohio	29.12	739.6	29.92	760.0	53.6	12.0	82	s.	13	5.8	.....	10 cs	0	w.	.....	0.14	3.6	cloudy	J. B. Newlin.
Coleman City, Texas	28.03	711.9	29.91	759.7	47	8.3	71	nw.	10	4.5	.....	0	8 s	.....	nw.	0.10	2.5	cloudy	L. Dorman.
Columbus, Ohio	29.08	738.6	29.98	761.5	55	12.8	86	s.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	27.91	709.7	29.96	761.0	48.2	9.0	66	nw.	4	1.8	.....	0	5 s	.....	.....	0.14	3.6	fair	J. McGlone.
Davenport, Iowa	28.87	733.3	29.57	751.1	50	10.0	86	se.	5	2.2	.....	.....	10n; fg	.....	.....	2.38	60.5	light rain	R. R. Martin.
Davis, Fort, Texas	25.06	636.5	30.02	762 5	37	2.8	66	nw.	4	1 8	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.70	729.0	30.52	775.2	8	—13.3	80	e.	8	3.6	.....	0	0	.....	.....	0.05	1.3	clear	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.45	646.4	30.37	771.4	— 5	—20 6	68	ne.	1	0.4		0	0			0.08	2.0	clear	F. Willson.
Delaware Breakwater, Del.	30.27	768.8	30.29	769.4	37	2.8	100	e.	8	3.6			fg.			0.26	6.6	dense fog	T. S. Townsend.
Denison, Texas	28.99	736.3	29.83	757.7	52.0	11.1	100	n.	8	3.6			10 n			0.18	4.6	light rain	J. W. Byram.
Denver, Colorado	24.63	625.6	30.15	765.8	8.0	—13.3	80	calm	0	0		0	0			0.40	10.2	clear	F. M. Neal.
Des Moines, Iowa	28.66	728.0	29.63	752.6	37	2.8	82	nw.	6	2.7			10 s		nw.	0.40	10.2	cloudy	F. W. Conrad.
Detroit, Michigan	29.02	737.1	29.77	756.1	53.8	12.1	86	s.	28	12.5			10 s		sw.	0.15	3.8	cloudy	E. R. Brace.
Dodge City, Kansas	27.41	696.2	30.15	765.8	9	—12.8	60	nw.	24	10.7		0	0			0	0	clear	V. P. Temple.
Dubuque, Iowa	28.81	731.8	29.57	751.1	42.7	5.9	96	s.	1	0.4			fg.			0.59	15.0	dense fog	J. Harvey Smith.
Duluth, Minnesota	28.87	733.3	29.68	753.9	30	— 1.1	88	nw.	9	4.0			10 s		nw.	0.02	0.5	cloudy	N. B. Conger.
Eagle Pass, Texas	28.93	734.8	29.77	756.1	70.0	21.1	90	se.	2	0.9			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.42	645.7	30.32	770.1	—14	—25.6	100	calm	0	0			fg.			0	0	dense fog	J. M. Clifford.
Eastport, Maine	30.33	770.4	30.40	772.1	28.0	— 2.2	82	se.	10	4.5			10 s		se.	0.01	0.3	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.11	688.6	30.01	762.2	17	— 8.3	56	n.	32	14.3		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.20	665.5	30.08	764.0	37.2	2.9	72	nw.	4	1.8			10 s		nw.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.18	741.2	29.95	760.7	52	11.1	86	s.	21	9.4		0	7 ks		s.	0.04	1.0	fair	Peter Wood.
Escanaba, Michigan	28.89	733.8	29.61	752.1	33.5	0.8	86	nw.	3	1.3			10 s			0.39	9.9	cloudy	George Heathcote.
Fredericksburg, Texas	28.03	711.9	29.83	757.7	66	18.9	100	w.	7	3.1			10 n			0.01	0.3	light rain	Frank Halwegler.
Galveston, Texas	29.76	755.9	29.82	757.4	68	20.0	90	se.	16	7.2		0	9 ks		sw.	0	0	cloudy	E. O'C. MacInernay
Grand Haven, Michigan	28.93	734.8	29.64	752.8	49.0	9.4	100	s.	24	10.7			fg.			1.55	39.4	dense fog	J. E. Mueller.
Grant, Fort, Arizona	25.22	640.6	30.08	764.0	25	— 3.9	67	e.	10	4.5		0	0			0.09	2.3	clear	Robert C. Lord.
Hatteras, North Carolina	30.26	768.6	30.28	769.1	52	11.1	100	sw.	5	2.2			fg.			0	0	dense fog	R. M. Crawford.
Helena, Montana	25.98	659.9	30.38	771.6	— 7	—21.7	100	calm	0	0		0	0			0.16	4.1	clear	N. C. Smith.
Henrietta, Texas	28.82	732.0	29.87	758.7	48	8.9	93	n.	1	0.4			10 ks		s.	0.28	7.1	cloudy	J. P. Sherry.
Huron, Dakota	28.61	726.7	30.13	765.3	— 2.2	—19.0	65	nw.	18	8.0			10 n			0.06	1.5	light snow	S. W. Glenn.
Indianapolis, Indiana	28.97	735.8	29.82	757.4	63	17.2	78	s.	16	7.2		0	6 s		s.	0.01	0.3	fair	C. F. R. Wappenhans.
Indianola, Texas	29.71	754.6	29.74	755.4	70.1	21.2	95	s.	15	6.7			10 s		s.	inap.	inap.	cloudy	
Jacksboro, Texas	28.52	724.4	29.76	755.9	50	10.0	59	s.	2	0.9			10 s			0.23	5.8	cloudy	D. J. Carr.
Jacksonville, Florida	30.18	766.6	30.23	767.8	69	20.6	93	calm	0	0			fg.			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.80	706.1	30.48	774.2	—12	—24.4	54	nw.	4	1.8		0	0			inap.	inap.	clear	A. Schneider.
Keokuk, Iowa	28.90	734.0	29.60	751.8	60.0	15.6	100	e.	6	2.7			10 n		e.	3.18	80.8	light rain	F. Z. Gosewisch.
Key West, Florida	30.10	764.5	30.12	765.0	75.0	23.9	82	e.	13	5.8		0	5 ks		e.	0.01	0.3	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.26	768.6	30.28	769.1	47.5	8.6	96	n.	2	0.9		0	6k; fg		n.	0	0	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	29.07	738.4	30.15	765.8	52.3	11.3	98	calm	0	0		0	fg.			0.04	1.0	clear	J. A. Cody.
La Crosse, Wisconsin	28.77	730.7	29.61	752.1	35	1.7	89	n.	4	1.8			fg.			0.52	13.2	dense fog	S. C. Emery.
Leavenworth, Kansas	28.88	733.5	29.83	757.7	24	— 4.4	86	nw.	20	8.9			10 s		nw.	0.36	9.1	cloudy	A. W. Browne.
Lewiston, Idaho	29.78	756.4	30.65	778.5	7.5	—13.6	76	se.	1	0.4		0	0			0.12	3.0	clear	W. Bell.
Little Rock, Arkansas	29.47	748.5	29.80	756.9	68	20.0	90	s.	10	4.5			10 ks		sw.	0.02	0.5	cloudy	W. U. Simons.
Los Angeles, California	29.89	759.2	30.29	769.4	38	3.3	54	ne.	8	3.6		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.33	745.0	29.92	760.0	64.5	18.1	70	s.	16	7.2		3 c	3 s		sw.	0	0	fair	L. M Dey.
Lynchburg, Virginia	29.53	750.0	30.25	768.3	48	8.9	93	e.	2	0.9			10s; fg			0.09	2.3	cloudy	Louis Duane.
Mackinaw City, Michigan	28.97	735.8	29.67	753.6	34.5	1.4	94	e.	12	5.4			10 n			0.33	8.4	light rain	F. R. Day.
Macon, Fort, North Carolina	30.27	768.8	30.28	769.1	55.0	12.8	100	sw.	3	1.3			fg.			0	0	dense fog	William Daly.
Madison, Wisconsin	28.49	723.6	29.58	751.3	43	6.1	93	se.	8	3.6			fg.			0.80	20.3	dense fog	C. A. Shaw.
Maginnis, Fort, Montana	25.70	652.8	30.24	768.1	— 5	—20.6	65	nw.	5	2.2		0	0			0.12	3.0	clear	F. Burke.
McKavett, Fort, Texas																			J. E. Thatcher.
Marquette, Michigan	28.81	731.8	29.59	751.6	35	1.7	89	s.	2	0.9			10 n			0.19	4.8	light rain	J. Gilligan.
Memphis, Tennessee	29.54	750.3	29.89	759.2	67	19.4	73	se.	12	5.4			10 s		s.	0	0	cloudy	D. T. Flannery
Milwaukee, Wisconsin	28.83	732.3	29.63	752.6	46	7.8	100	w.	16	7.2			10n; fg			0.52	13.2	light rain	W. Line.
Missoula, Fort, Montana	27.00	685.8	30.43	772.9	14	—10.0	67	s.	4	1.8		0	0			0.03	0.8	clear	I. H. Young.
Mobile, Alabama	30.02	762.5	30.06	763.5	67	19.4	93	s.	6	2.7		0	0			0	0	clear	C. A. Read.
Montgomery, Alabama	29.86	758.4	30.10	764.5	68.2	20.1	86	se.	7	3.1			10 ks		s.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.93	734.8	30.03	762.7	—12	—24.4	100	n.	30	13.4			10 n		n.	0.35	8.9	light snow	H. Bessant.
Morgantown, W. Virginia	29.08	738.6	30.15	765.8	45.5	7.5	87	sw.	1	0.4		0	fg.			0.01	0.3	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.81	604.8	30.43	772.9	31.0	— 0.6	100	w.	58	26.0			fg.		w.	0.51	13.0	dense fog	S. W. Beall.
Nashville, Tennessee	29.40	746.7	30.01	762.2	67.0	19.4	84	s.	17	7.6			10 ks		s.	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.21	767.3	30.33	770.4	28	— 2.2	100	ne.	6	2.7			10s; fg			0.02	0.5	cloudy	J. H. Sherman.
New London, Connecticut	30.28	769.1	30.32	770.1	30	— 1.1	100	ne.	4	1.8			10s; fg			0.54	13.7	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.92	760.0	29.98	761.5	70.3	21.3	86	s.	12	5.4		0	2 s		s.	0	0	clear	L. Dunne.
Newport, Rhode Island	30.27	768.8	30.32	770.1	31.9	— 0.1	85	n.	2	0.9			fg.			0.07	1.8	dense fog	W. McGillivray.
New York, New York	30.16	766.1	30.35	770.9	32	0.0	100	ne.	7	3.1			fg.			0.37	9.4	dense fog	J. B. Merrill.
Norfolk, Virginia	30.25	768.3	30.28	769.1	49	9.4	100	ne.	4	1.8			fg.			0	0	dense fog	Wm. Davis.
North Platte, Nebraska	27.04	686.8	30.14	765.5	— 3.4	—19.7	73	nw.	26	11.6			10 s			0.10	2.5	cloudy	E. F. Brady.
Olympia, Washington T'y	30.45	773.4	30.49	774.4	31.0	— 0.0	100	calm	0	0			10 s			0.11	2.8	cloudy	J. Dascomb.
Omaha, Nebraska	28.62	726.9	29.89	759.2	9.2	—12.7	73	nw.	16	7.2			10 s			0.01	0.3	cloudy	A. Pollak.
Ogdaamie, Alaska	30.44	773.2	30.46	773.7	—18.0	—27.8		w.	10	4.5		0	2 s			0	0	clear	P. H. Ray.
Oswego, New York	29.74	755.4	30.09	764.3	40.0	4.4	82	se.	12	5.4			10 s			inap.	inap.	cloudy	J. G. Linsley.
Palestine, Texas	29.24	742.7	29.82	757.4	71.0	21.7	79	s.	24	10.7			10 ks		s.	0.02	0.5	cloudy	L. M. Pindell.
Pensacola, Florida	30.06	763.5	30.08	764.0	69.9	21.1	100	se.	9	4.0			10 s		se.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.22	767.6	30.33	770.4	37	2.8	89	ne.	5	2.2			10n; fg		ne.	0.55	14.0	light rain	E. M. Mattison.
Pike's Peak, Colorado	17.18	436.4	29.90	759.4	—20	—28.9	100	ne.			5	0	1 s			0.03	0.8	clear	H. Hall.
Ploche, Nevada	24.04	610.6	30.20	767.1	10	—12.2	66	n.	6	2.7		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.24	742.7	30.10	764.5	44.0	6.7	93	calm	0	0			10 s			inap.	inap.	cloudy	W. A. Reid.
Poplar River, Montana	28.21	716.5	30.56	776.2				nw.			1	0	0			0.10	2.5	clear	W. D. Maxwell.
Port Eads, Louisiana	30.02	762.5	30.03	762.7	64.0	17.8	100	se.	12	5.4			fg.			0	0	dense fog	H. B. Boyer.
Port Huron, Michigan	29.02	737.1	29.75	755.6	48.0	8.9	100	s.	20	8.9			10 n		w.	0.32	8.1	light rain	W. O. Bailey.
Portland, Maine	30.29	769.4	30.34	770.6	25.0	— 3.9	74	n.	4	1.8			10s; fg			0.03	0.8	cloudy	W. W. Elchelburger
Portland, Oregon	30.41	772.4	30.48	774.2	30.0	— 1.1	80	calm	0	0		3 c	0			inap.	inap.	clear	M. L. Hearne.
Portsmouth, N. C.																			F. S. Coburn.
Prescott, Arizona	24.73	628.1	30.09	764.3	6.0	—14.4	79	sw.	3	1.3		0	0			0.19	4.8	clear	Jas Cassidy.
Provincetown, Mass.	30.32	770.1	30.35	770.9	37.5	3.1	89	e.	1	0.4			10s; fg			0.03	0.8	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.16	766.1	30.17	766.3	69	20.6	90	e.	9	4.0		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	30.08	764.0	30.45	773.4	31	— 0.6	78	nw.	3	1.3		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.32	744.7	30.03	762.7	39.5	4.2	100	se.	16	7.2		9 k	fg.	w.		0	0	cloudy	E. W. McGann
Roseburg, Oregon	29.90	759.4	30.47	773.9	31	— 0.6	88	e.	3	1.3			10 s			0.03	0.8	cloudy	J. J. Naury.
Sacramento, California	30.32	770.1	30.40	772.1	34.0	1.1	89	nw.	11	4.9		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.07	738.4	29.71	754.6	64.0	17.8	90	s.	16	7.2		0	8 s		sw.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.48	774.2	30.52	775.2	3	—16.1	100	se.	10	4.5			8 s		s.	0	0	cloudy	A. P. Leavitt
St. Paul, Minnesota	28.68	728.5	29.62	752.3	33.5	0.8	83	nw.	11	4.9			10 s		nw.	0.01	0.3	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.17	740.9	30.14	765.5	—12	—24.4	81	n.	28	12.5		0	0			0.01	0.3	clear	C. B Dilley.
Salt Lake City, Utah	25.76	654.3	30.32	770.1	17	— 8.3	40	calm	0	0		0	0			0.07	1.8	clear	J. Craig.
San Antonio, Texas	29.01	736.8	29.73	755.1	70.5	21.4	90	se.	5	2.2			10 s			0	0	clear	T. J. Kenan.
San Diego, California	30.17	766.3	30.24	768.1	39.4	4.1	78	e.	4	1.8		0	0			inap.	inap.	clear	A. C. Dobbins.
Sandusky, Ohio	29.12	739.6	29.84	757.9	57	13.9	80	sw.	29	13.0			10 s		w.	0.15	3.8	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.29	769.4	30.32	770.1	35.0	1.7	89	ne.	10	4.5			fg.			0.46	11.7	dense fog	B. A. Blundon.
San Francisco, California	30.30	769.6	30.37	771.4	41	5.0	78	n.	7	3.1		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	22.96	583.2	30.04	763.0	13	—10.6	42	n.	11	4.9		0	0			inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	30.16	766.1	30.25	768.3	65	18.3	93	s.	2	0.9			fg.			0	0	dense fog	H. W. Ford.
Shaw, Fort, Montana	26.55	674.4	30.40	772.1	—10	—26.7	44	calm	0	0		0	0			0.01	0.3	clear	A. L. Mathews.
Shreveport, Louisiana	29.52	749.8	29.77	756.1	70	21.1	78	s.	9	4.0		0	8 s		s.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.58	725.9	29.89	759.2	41	5.0	76	nw.	22	9.8		0	6 ks		nw.	0.42	10.7	fair	W. M. Mattingly.
Silver City, New Mexico	24.19	614.4	30.04	763.0	18.5	— 7.5	83	nw.	3	1.3		0	0			0.02	0.5	clear	N. D. Lane.
Sitka, Alaska	30.00	762.0	30.07	763.8	38.6	3.7	72	e	12	5.4			10 n		e.	0.29	7.4	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.29	744.0	29.79	756.7	52.0	11.1	96	nw.	32	14.3			10 n			0.02	0.5	heavy rain	J. B. Campbell.
Smithville, North Carolina	30.24	768.1	30.28	769.1	59	15.0	100	calm	0	0			fg.			0	0	dense fog	O. Parker.

STATIONS.	Barometer: Corrected for instrumental error and for temperature. Inch	Barometer: Corrected for instrumental error and for temperature. Mill.	Barometer: Reduced to sea-level. Inch.	Barometer: Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.45	722.6	30.58	776.7	3	—16.1	63	sw.	1	0.4	.....	0	0	.....	.....	0.01	0.3	clear	H. Clifford.
Springfield, Illinois	28.93	734.8	29.66	753.4	58	14.4	86	s.	24	10.7	.....	hz.	4 s; ks	.....	sw.	0.03	0.8	fair.....	T. B. Jennings
Springfield, Missouri	28.28	718.3	29.79	756.7	52.0	11.1	90	w.	18	8.0	.....	.....	10 n	.....	.....	0.30	7.6	thund'r st'm	J. H. Bryce.
Starkville, Miss.	29.52	749.8	30.02	762.5	66	18.9	90	se.	15	6.7	.....	2 c	4 s	.....	se.	0	0	fair.....	C. Dill.
Stevenson, Fort, Dakota	28.35	720.1	30.37	771.4	—15	—26.1	46	nw.	15	6.7	.....	0	0	.....	.....	0.02	0.5	clear.....	A. Schneider.
Stockton, Fort, Texas	26.85	682.0	29.98	761.5	44	6.7	47	nw.	10	4.5	.....	5 k	0	nw.	.....	0	0	fair.....	A. J. Warren.
Thatcher's Island, Mass.	30.30	769.6	30.36	771.1	36	2.2	94	n.	2	0.9	.....	.....	10s; fg	.....	.....	0	0	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.34	693.4	30.17	766.3	30	— 1.1	92	calm	.....	.....	0	0	0	.....	.....	0.02	0.5	clear	J. T. Fitzgerald.
Toledo, Ohio	29.06	738.1	29.80	756.9	53	11.7	86	s.	15	6.7	.....	.....	10 s	.....	sw.	0.01	0.3	cloudy.....	A. Buell.
Tucson, Arizona	27.62	701.5	30.10	764.5	31	— 0.6	88	s.	3	1.3	.....	0	0	.....	.....	0.07	1.8	clear	J. L. Whiteside
Umatilla, Oregon	30.27	768.8	30.65	778.5	6	—14.4	76	w.	1	0.4	.....	0	5 s	.....	.....	0.01	0.3	fair.....	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	28.3	— 2.1	67	n	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.66	753.4	29.94	760.5	69.8	21.0	84	se.	7	3.1	.....	0	9 k	.....	s.	0	0	cloudy.....	James Kenealy.
Visalia, California	29.98	761.5	30.36	771.1	31.2	— 0.4	91	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	O. D. Stewart
Washakie, Fort, Wyoming	24.47	621.5	30.23	767.8	— 4.7	—20.4	82	calm	0	0	.....	0	0	.....	.....	0.16	4.1	clear.....	T. M. Ambler.
Washington, D. C.	30.17	766.3	30.29	769.4	38.2	3.4	100	ne.	2	0.9	.....	.....	10n; fg	.....	.....	0.51	13.0	light rain.....	B. M. Pursell.
West Las Animas, Colorado	26.00	660.4	30.12	765.0	3	—16.1	76	n.	10	4.5	.....	0	0	.....	.....	0	0	clear.....	F. H. Brandenburg
Williamsport, Pa.	29.62	752.3	30.26	768.6	38	3.3	89	se.	1	04	.....	.....	10 s	.....	.....	0.27	6.9	threatening	B. F. Hough.
Wilmington, N. Carolina	30.27	768.8	30.33	770.4	62	16.7	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog ...	Samuel A. Haney.
Winnemucca, Nevada	25.89	657.6	30.41	772.4	5.0	—15.0	76	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	J. Grover.
Yankton, Dakota	28.56	725.4	29.98	761.5	2	—16.7	76	nw.	28	12.5	.....	.....	ks	.....	.....	0	0	cloudy	J. H. Atfield.
Yuma, Arizona	30.06	763.5	30.21	767.3	45.0	7.2	43	n.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	21.98	558.3	.....	.....	54.5	12.5	69	se.	1	0.4	.....	0	2 s	.....	n.	0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	72	22.2	81	n.	1	0.4	.....	0	4 s	.....	e.	0	0	fair.....	Robert Johnston.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	76	24.4	91	e.	.....	.....	2	.....	8 ks	.....	e.	0.070	1.8	cloudy.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.31	744.5	29.86	758.4	81	27.2	85	calm	.....	.....	0	8 ck	1 s	ne.	calm	0	0	cloudy.....	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	76	24.4	92	ne.	.....	.....	2	0	2 ks	.....	ne.	0	0		Earl Flint.
St. Paul, Kodiak Id., Alaska	30.07	763.8	30.13	765.3	23	— 5.0	73	n.	.....	.....	5	3 c	0	.....	.....	0	0	cloudy.....	W. J. Fisher.
St. Thomas, W. I.	30.04	763.0	30.17	766.3	76	24.4	76	e.	.....	.....		2 k	3 k	e.	e.	0	0	fair.....	Aug. Wallon.
Havana, Cuba	30.00	762.0	30.07	763.8	70.9	21.6	84	e.	9	4.0	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
York Factory, B. A.	30.00	762.0	30.08	764.0	—23.0	—30.6	.....	sw.	10	4.5	.....	1 c	0	w.	.....	0	0	fair.....	Fortesque & Wood.

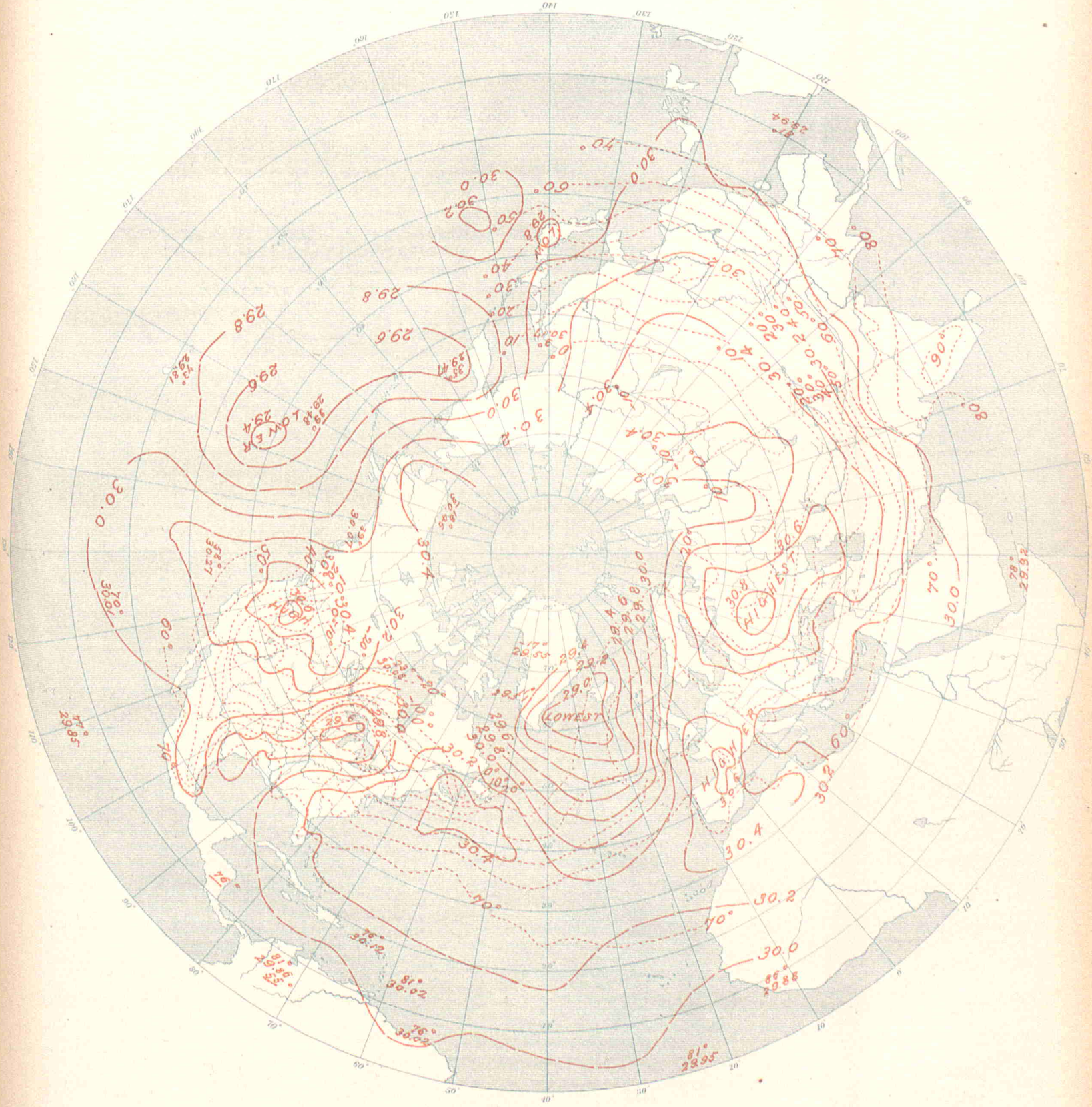
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level. Inch.	Barometer reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Sea-swell. Character.	Sea-swell. Direction from	WEATHER.
District No. 1—North Atlantic																		
H. M. Dock-Yard, Bermuda, W. I.	30.28	769.1	68	20.0	90	wnw.	.....	.....	1–2	.....	4	wnw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Fawn, N. 23° 28′, W. 33° 46′	30.21	767.3	70	21.1	71	ene.	.....	.....	1–2	.....	8	ene.	.....	.....	.....	4	ne.	d. clouds.
H. M. S. Iron Duke, N. 36° 24′ W. 9° 35′	30.47	773.9	56	13.3	87	nne.	.....	.....	2	.....	5	nne.	.....	.....	.....	4	wnw.	d. clouds.
H. M. S. Monarch Port Said, Egypt	30.05	763.3	73	22.8	50	w.	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Minotaur, Arosa Bay, Spain	30.49	774.4	48.5	9.2	77	nne.	.....	.....	1	.....	2	wnw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Tyne, N. 9° 51′, W. 21° 50′	29.95	760.7	74	23.3	81	n.	.....	.....	3	.....	3	wnw.	.....	.....	.....	3	nw.	d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	30.35	770.9	25	— 3.9	?	calm	0	0	.....	.....	10	.....	ne.	.....	.....	.....	.....	misty.
U. S. S. Alliance, N. 23° 19′, W. 82° 19′	30.05	763.3	76	24.4	100	ese.	.....	.....	4	.....	2	.....	.....	light	light	sm'h	.....	clear.
U. S. S. Enterprise, N. 0° 59′, W. 25° 00′ *	29.95	760.7	81	27.2	87	sse.	.....	.....	2	.....	2	.....	calm	.....	.....	sm'h	.....	clear.
U. S. S. Kearsarge, Cartagena, U. S. C	.....	.....	77	25.0	90	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Lancaster, N. 45° 40′, W. 7° 05′	30.49	774.4	53	11.7	86	se.	.....	.....	4	.....	2	.....	se.	.....	.....	mod.	nw.	fair.
U. S. S. Nipsic, N. 26° 18′, W. 68° 39′	30.34	770.6	72	22.2	80	e.	.....	.....	4	.....	2	.....	ne.	.....	.....	mod	e.	clear.
U. S. S. Quinnebaug, Cadiz, Spain	30.37	771.4	60	15.6	88	e.	.....	.....	4	.....	0	.....	.....	.....	.....	gentle	e.	hazy.
U. S. S. St. Louis, League Island, Pa.	30.33	770.4	34	1.1	100	ne.	4.5	2.0	.....	.....	10	.....	.....	0.05	1.3	.....	.....	foggy.
U. S. S. Swatara, Hampton Roads, Va*	30.29	769.4	47	8.3	92	ne.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	foggy.
U. S. S. Tennessee, N. 15° 11′, W. 69° 33′*	30.01	762.2	79	26.1	82	e.	24	10.7	.....	.....	8	.....	e.	0.02	0.5	mod.	e.	cloudy.
U. S. S. Vandalia, N. 18° 05′, W. 72° 43′ *	30.09	764.3	80	26.7	78	e.	.....	.....	4	.....	2	.....	ne.	.....	.....	long	.....	fair.
U. S. S. Yantic, N. 21° 08′, W. 94° 59′	29.97	761.2	76	24.4	100	e.	.....	.....	5	.....	0	.....	.....	.....	.....	mod.	se.	clear.
U. S. S. Illinois, N 46° 00′, W. 39° 00′	29.77	756.1	33	0.6	89	wnw	.....	.....	5	.....	10	.....	nw.	.....	.....	r'gh	nw.	snowing.
S. S. Indiana, Liverpool Bar, Eng.	.....	.....	44	6.7	92	w.	.....	.....	4	.....	2	.....	w.	0	0	mod.	w.	
S. S. Lord Clive, N. 50° 50′, W. 17° 46′	.....	.....	.....	.....	.....	sw.	.....	.....	10	.....	10	.....	sw.	6 h'r	6 h'r	high	w.;s.	
S. S. Lord Gough, N. 49° 30′, W. 34° 56′	29.49	749.0	35	1.7	.....	wnw.	.....	.....	5	.....	5	.....	nw.	10 h'r	10 h'r	r'gh	nw.	squally.
S. S. Ohio, N. 47° 18′ W. 35° 14′†	29.59	751.6	42	5.6	91	wsw.	.....	.....	6	.....	9	.....	wsw.	.....	.....	mod.	w.	cloudy.
S. S. Pennsylvania, N. 51° 24′, W. 12° 50′ †	30.23	767.8	47	8.3	85	wnw.	.....	.....	6	.....	5	.....	wnw.	2 h'r	2 h'r	r'gh	nw.	cloudy.
S. S. Circassian, N. 38° 30′, W. 72° 45′*	30.25	768.3	46	7.8	92	var.	.....	.....	1	.....	10	.....	w.	9 h'r	9 h'r	sm'h	.....	showery.
S. S. Nova Scotian, N. 48° 14′ W. 37° 05	29.66	753.4	34	1.1	.....	w.	.....	.....	5	.....	8	.....	wnw.	.....	.....	mod.	w.	cloudy.
S. S. Manitoban, N. 43° 32′, W. 69° 45′	30.35	770.9	35	1.7	.....	n.	.....	.....	4	.....	10	.....	.....	5 h'r	5 h'r	light	w.	cloudy.
S. S. Scandinavian, Glasgow, Scotland	.....	.....	48	8.9	.....	s.	.....	.....	6	.....	2	.....	s.	.....	.....	sm'h	.....	d. clouds.
S. S. Jason, N. 48° 52′, W. 17° 27′	.....	.....	50.0	10.0	.....	ssw.	.....	.....	4–6	.....	9 n	.....	.....	.....	.....	6	w.	gloomy.
S. S. Stella, N. 48° 53′, W. 15° 32′	29.74	755.3	48.2	9	.....	s.	.....	.....	8	.....	9	.....	sw.	10 h'r	10 h'r	8	w.	drizzling.
S. S. Alvo, N. 38° 00′, W. 73° 52′	30.29	769.4	43	6.1	.....	sse.	.....	.....	2–3	.....	fg.	.....	.....	0	0	short	s.	dense fog.
S. S. Ailsa, Greytown, Nicaragua†	30.01	762.2	78	25.6	100	ene.	.....	.....	5	.....	10	.....	ene.	0	0	long	ene.	overcast.
S. S. Assyria, N. 33° 15′, W. 53° 14′	30.19	766.8	67	19.4	?	sw.	.....	.....	6	.....	10	.....	sw.	1 h'r	1 h'r	mod.	.....	squally.
S. S. Bolivia, N. 46° 16′, W. 38° 02′	29.86	758.4	36	2.2	.....	wnw.	.....	.....	6	.....	5	.....	wnw.	snow	snow	r'gh	wnw.	fair.
S. S. Gallia, N. 40° 59′, W. 61° 12′	30.40	772.1	49	9.4	71	e.	.....	.....	5	.....	10	.....	n.	.....	.....	sm'h	.....	cloudy.
S. S. Marathon, N. 44° 54′, W. 8° 45′	30.50	774.7	55	12.8	.....	sse.	.....	.....	4	.....	2	.....	sse.	2 h'r	2 h'r	high	wnw.	fair.
S. S. Pavonia, N. 41° 12′, W. 66° 14′	30.30	769.6	43	6.1	91	e.	.....	.....	4	.....	mist	.....	.....	0	0	sm'h	ene.	misty.
S. S. Pereire, N. 45° 24′, W. 45° 24′†	30.11	764.8	28.4	— 2	.....	wnw.	.....	.....	6	.....	7?	.....	wnw.	0	0	r'gh	wnw.	clear.?
S. S. Ville de Marseilles, Plum Point, Jamaica, W. I†	30.20	767.1	75	23.9	..	n.	.....	.....	2	.....	3	.....	ene.	0	0	sm'h	.....	clear
S. S. Abyssinia, N. 45° 57′, W. 52° 00′	30.41	772.4	34	1.1	100	wnw.	.....	.....	4	.....	7	.....	wnw.	0	0	mod.	w.	squally.
S. S. Wyoming, N. 49° 38′ W. 28° 00′	28.84	732.5	35	1.7	.....	w.	.....	.....	10	.....	8	.....	wnw.	6 h'r	6 h'r	hv'y	wnw.	
S. S. Bohemia, N. 45° 43′, W. 37° 54′†	29.70	754.4	.....	.....	.....	nw.	.....	.....	6–7	.....	10 k	.....	nw.	12 h'r	12 h'r	h'vy	nw.	squally
S. S. Silesia, N. 41° 47′, W. 63° 35′†	30.44	773.2	.....	.....	.....	ne.	.....	.....	2	.....	7	.....	n.	1½ h'r	1½ h'r	sm'h	.....	cloudy.
S. S. Vandalia, N. 58° 23′, W. 13° 45′	29.45	748.0	45.3	7.4	97	ssw.	.....	.....	7–8	.....	2	.....	ssw.	.....	.....	8	ssw.	snow-squalls
S. S. Bulgarian, N. 46° 43′, W. 45° 58′ *	30.13	765.3	.....	.....	.....	nw.	.....	.....	5	.....	10	.....	nw.	9 h'r	9 h'r	mod.	nw.	
S. S. Virginian, Mersey river, Eng *	30.42	772.7	48	8.9	.....	sw.	.....	.....	4	.....	3	.....	w.	0	0	.....	.....	fine.
S. S. Archimedes, N. 23° 41′ W. 20° 59	30.12	765.0	.....	.....	.....	ene.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Colorado, Galveston Bar, Texas†	29.85	758.2	65	18.3	.....	se.	.....	.....	4	.....	10	.....	se.	0	0	.....	.....	cloudy.
S. S. Rio Grande, N. 25° 25′, W. 85° 48′ †	30.09	764.3	83	28.3	.....	se.	.....	.....	2	.....	2	.....	ene.	0	0	mod.	.....	clear.
S. S. San Marcos, New York, N. Y.	30.28	769.1	32	0.0	.....	e.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
S. S. Chalmette, N. 27° 25′ W. 87° 00′†	30.09	764.3	78	25.6	.....	se.	.....	.....	5	.....	0	.....	.....	0	0	sm'h	se.	clear.
S. S. Lone Star, N. 34° 15′, W. 75° 30′ †	30.28	769.1	72	22.2	.....	n.	.....	.....	2	.....	4	.....	n.	0	0	small	se.	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																	
S. S. Alleghany, N. 37° 54′, W. 75° —′†	30.34	770.6	40	4.4	.....	calm	.....	.....	0	.....	.....	.....	12 h'r	12 h'r	light	s.	foggy.
S. S. Archimede. N. 34° 00′, W. 56° 41′†	30.24	768.1	72	22.2	.....	nnw.	.....	.....	4	.....	.....	5f	nw.	o	mod	wnw.	cloudy.†
S. S. Picqua. N. 36° 38′ W. 2° 49′	.....	.....	61	16.1	.....	e.	.....	.....	1	.....	.....	0	.....	o	.....	.....	clear.
S. S City of Merida, N. 19° 40′ W. 90° 40′†	29.93	760.2	79	26.1	.....	e.	.....	.....	4	.....	.....	1	ne.	o	light	e.	clear.
S. S, City of Washington, N. 18° 44′, W. 93° 17′†	29.93	760 2	80	26.7	.....	e.	.....	.....	2	.....	.....	2	ene.	o	mod.	e.	fine.
S. S. Santiago, N. 25° 15′, W. 73° 50′	30.25	768.3	74	23.3	.....	ene.	.....	.....	4	.....	.....	4	ne.	o	mod.	e.	fine.
S S. Denmark, N. 49° 45′, W. 12° 00′	.....	.....	50	10.0	.....	sse.	.....	.....	9	.....	.....	10	sse.	sq'lls	sq lls	h'vy	ssw.	overcast.
S. S. Egypt, N. 52° 04′, W. 7° 48′*	30.29	769.4	49	9.4	.....	ssw.	.....	.....	5	.....	.....	5	sw.	o	o	mod.	s.	fair.
S. S. England, N. 47° 07′ W. 40° 29′	29.76	755.9	.....	.....	.....	w.	.....	.....	6	.....	.....	10	wnw.	snow	snow	h'vy	w.	squally.
S. S. Erin, N. 40° 31′, W. 70° 12′	30.24	768.1	39	3.9	.....	e.	.....	.....	4	.....	.....	10	ese.	4 h'r	4 h'r	mod.	se.	foggy.
S. S. Helvetia, N. 51° 22′, W. 12° 30′	.....	.....	47	8.3	.....	ssw.	.....	.....	8	.....	.....	10	sw.	14 h'r	14 h'r	long	w.	raining.
S. S. The Queen, N. 47° 38′, W. 34° 41′	29.79	756.7	37	2.8	.....	w.	.....	.....	6	.....	.....	5	w.	sh'rs	sh'rs	r'gh	wnw.	clearing.
S. S. Braunschweig, N. 42° 33′, W. 100° 47′	30.42	772.7	63.0	17.2	75	se.	.....	.....	4	.....	.....	4	se.	o	o	light	se.	fair.
S. S. Donau, N. 45° 15′, W. 42° 10′	30.11	764.8	.....	.....	.....	w.	.....	.....	6–7	.....	.....	8	w.	hail	hail	h'vy	w.	squally.
S. S. Weser, N. 49° 39′, W. 17° 54′	29.58	751.3	.....	.....	.....	var.	.....	.....	6	.....	.....	8	var.	5 h'r	5 h'r	h'vy	var.	clearing.
S. S. Muriel, Barbadoes, Windward Islands, W. I*	30.03	762.7	81	27.2	.....	ene.	.....	.....	4	.....	.....	0	.....	.....	.....	sm'h	.....	clear.
S. S. Belgenland, Antwerp, Belgium*†	30.35	770.9	49	9.4	71	wnw.	.....	.....	6	.....	.....	4	nw.	o	o	.....	.....	squally.
S. S. Nederland, N. 44° 15′ W. 42° 53′	.....	.....	33	0.6	80	wnw.	.....	.....	6	.....	.....	8	w.	4 h'r	4 h'r	r'gh	wnw.	squally.
S. S. Rhynland, N. 49° 30′, W. 23° 00′	29.57	751.1	39	3.9	100	nw.	.....	.....	9	.....	.....	6	wnw.	6 h'r	6 h'r	high	w.	squally.
S. S. Pennland, Antwerp, Belgium	30.33	770.4	44.5	6.9	?	nw.	.....	.....	5	.....	.....	2	se.	o	o	.....	.....	fine.
S. S. Switzerland, N. 46° 23′, W 38° 10′ †.	29.80	756.9	.....	.....	.....	w.	.....	.....	5	.....	.....	10	w.	12 h'r	12 h'r	h'vy	w.	heavy snow
S. S. Waesland, Jersey City, N. J	30.34	770.6	36	2.2	.....	ne.	.....	.....	3	.....	.....	10	ne.	0.25	6.3	.....	.....	dense fog.
S. S. Zeeland, N. 50° 00′ W. 7° 00′ *†	30.40	772.1	48	8.9	.....	ssw.	.....	.....	5	.....	.....	1	sw.	6 h'r	6 h'r	h'vy	sw.	clear.
S. S. P. Caland, N. 46° 22′, W. 37° 36′	29.82	757.4	38.1	3.4	87	w.	.....	.....	7	.....	.....	6	w.	.....	.....	7	wnw.	
S. S. Rotterdam, N. 43° 30′, W. 49° 06′*	30.35	770.9	33.4	0.8	95	wnw.	.....	.....	5	.....	.....	7	nw.	o	o	4	wnw.	cloudy.
S. S. W. A. Scholten, Rotterdam, Nethlands*	30.36	771.1	45.5	7.5	84	ne.	.....	.....	6	.....	.....	5	nne.	o	o	.....	.....	fair.
S. S. Zaandam, N. 41° 00′, W. 66° 00′	30.41	772.4	50.4	10.2	79	e.	.....	.....	3	.....	.....	8 n	e.	2 h'r	2 h'r	3	e.	foggy.
S. S. Caracas, Curacao, Venezuela†	30.03	762.7	78	25.6	86	ese.	.....	.....	5	.....	.....	3	ese.	½h'r	½h'r	.....	.....	fine.
S. S. Claudius, Belize, Honduras†	30.05	763.3	78.5	25.8	98	e.	.....	.....	3	.....	.....	2	ese.	o	o	light	ese.	fair.
S. S. Valencia, N. 27° 01′, W. 70° 27′ †	30.39	771.9	74	23.3	76	se.	.....	.....	3	.....	.....	5	se.	o	o	mod.	se.	fine.
S. S. State of Florida, N. 54° 01′, W. 19° 02′	29.15	740.4	49	9.4	.....	wsw.	.....	.....	7	.....	.....	10	sw.	8 h'r	8 h'r	h'vy	sw	hazy.
S. S. Marengo, N. 40° 25′, W. 71° 29′†	30.25	768.3	.....	.....	.....	ne.	.....	.....	3	.....	.....	10	ne.	o	o	mod	n.	overcast.
S. S. Romano, Hull Roads, Eng*	30.20	767.1	42	5.6	.....	sw.	.....	.....	4	.....	.....	4	sw.	o	o	h'vy	s.	fine.
S. S. Salerno, Hull, Eng†	30.37	771.4	45	7.2	.....	w.	.....	.....	2	.....	.....	3	w.	2 h'r	2 h'r	rg'h	se.	fine.
S. S. Brooklyn, Portland, Maine..	.....	.....	23	— 5.0	.....	n.	.....	.....	4	.....	.....	.....	n.	4 h'r	4 h'r	h'vy	w.	cloudy.
S. S. Toronto, N. 51° 46′, W. 6° 50′*	30.25	768.3	46	7.8	.....	wsw.	.....	.....	6	.....	.....	0	.....	o	o	h'vy	.....	clear.
S. S. Surrey. Sandy Hook, N. J	.....	.....	33	0.6	.....	e.	.....	.....	4	.....	.....	.....	.....	5 h'r	5 h'r	sm'h	.....	cloudy.
S. S. Plantyn, N. 44° 59′, W. 42° 21′	.....	.....	.....	.....	.....	.....	.....	.....	7	.....	.....	7	w.	2 h'r	2 h'r	long	wnw	squally.
S. S. Catherine Whiting, Delaware Bay†	30.37	771.4	70	21.1	.....	ne.	.....	.....	1	.....	.....	.....	.....	o	o	.....	.....	foggy.
S. S. Norman, Philadelphia, Pa*†	30.32	770.1	.....	.....	.....	ne.	.....	.....	1	.....	.....	.....	ne.	light	light	.....	.....	dense fog.
S. S. Saxon, Boston, Mass†	30.24	768.1	.....	.....	.....	ese.	.....	.....	3	.....	.....	10	.....	.....	.....	.....	.....	dense fog.
S. S. Adriatic, N. 40° 22′, W. 68° 54′†	30.27	768.8	43	6.1	.....	ene.	.....	.....	4	.....	.....	10	.....	.....	.....	.....	.....	misty.
S. S. Britannic, N. 49° 56′, W. 27° 36′†	29.47	748.5	42	5.6	100	wnw.	.....	.....	5	.....	.....	2	w.	4 h'r	4 h'r	mod.	e.	fair.
S. S. Celtic, N. 45° 08′, W. 46° 00′ †	30.16	766.1	30	— 1.1	..	wnw.	.....	.....	5	.....	.....	10	nw.	8 h'r	8 h'r	cross	var.	cloudy.
S. S. Republic, N. 50° 34′, W. 19° 34′ †	29.36	745.7	47	8.3	85	wsw.	.....	.....	7	.....	.....	8	wsw.	snow	snow	mod.	nw.	hailing
S. S. Iowa, N. 42° 31′, W. 67° 39′* †	30.45	773.4	38	3.3	.....	ese.	.....	.....	5	.....	.....	8	ese.	4 h'r	4 h'r	7	wsw.	blue sky.
S. S. Auckland, N. 5° 13′, W. 31° 00′	29.92	760.0	78	25.6	78	nne.	.....	.....	4	.....	.....	1	.....	5 h'r	5 h'r	mod.	ese.	cloudy.
S. S. Chamois, N. 24° 50′, W. 43° 37	30.26	768.6	72.3	22.4	72	ne.	.....	.....	1	.....	.....	6	.....	.....	.....	.....	.....	d. clouds.
S. S. City of Agra, N. 29° 47′, W. 43° 15′	30.27	768.8	67.5	19.7	74	n.	.....	.....	3	.....	.....	0	.....	.....	.....	.....	.....	d. clouds.
S. S. Ptolemy, N. 9° 15′, W. 48° 00′	30.02	762.5	79.2	26.2	82	nne.	.....	.....	6	.....	.....	7	.....	.....	.....	.....	.....	d. clouds
S. S. Antonio Lopez, Havana, Cuba, W. I	30.06	763.5	71	21.7	90	e.	.....	.....	2	.....	.....	0	.....	.....	.....	.....	.....	
Bk. Aquidneck, N. 29° 10′, W. 40° 18′*†	30.40	772.1	.....	.....	.....	var.	.....	.....	.....	.....	.....	.....	w.	o	o	sm'h	.....	clear
Bg. Aleira, Maracaybo, Venezuela, S. A	29.96	761.0	81	27.2	.....	ne.	.....	.....	1	.....	.....	2	ne.	o	o	light	n	clear.
Schr. Anna A. Holton, Tampico, Mexico†	29.87	758.7	78	25.6	.....	nne.	.....	.....	2	.....	.....	10	.....	o	o	.....	.....	clear.
Schr. Annie R. Lewis, St. Pierre, Martinique, W. I†.	30.16	766.1	77	25.0	.....	e.	.....	.....	1	.....	.....	5f	ene.	o	o	sm'h	.....	misty.
Bk. Anna Thormann, N. 18° 15′ W. 38° 39′*	30.21	767.2	72.9	22.7	66	ne.	.....	.....	5	.....	.....	8 k	ne.	1 h'r	1 h'r	.....	.....	clear?
Bk. Aureola, Swansea, Wales	.....	.....	65	18.3	.....	n.	.....	.....	2	.....	.....	3	ne.	light	light	r'gh	ne.	cloudy.
Bk. Achille F, Queenstown, Ireland†	30.31	769.9	49	9.4	85	s.	.....	.....	7	.....	.....	6	s.	o	o	sm'h	.....	fair
Bg. Annie R. Storer N. 8° 22′, W. 50° 35′	.....	.....	.....	.....	.....	ne	.....	.....	6	.....	.....	1	ne.	o	o	sm'h	.....	squally.
S. Armenta, N. 2° 45′, W. 27° 10 *	29.88	758.9	79	26.1	91	ene.	.....	.....	3	.....	.....	8	var.	6 h'r	6 h'r	r'gh	ne.	clear.
S. S. Burswell. N. 51° 01′ W. 10° 10′	.....	.....	51	10.6	.....	ssw.	.....	.....	6	.....	.....	9	ssw.	½h'r	½h'r	mod.	nne.	cloudy.
S. S. Benledi, N. 59° 10′, W. 3° 20′	.....	.....	.....	.....	.....	ssw.	.....	.....	3	.....	.....	0	.....	6 h'r	6 h'r	high	var.	squally.
Bk. Bare, N. 5° 25′, W. 25° 45′	.....	.....	82	27.8	.....	nne.	.....	.....	3	.....	.....	5f	ne.	o	o	sm'h	.....	clear
Bk. Pilgrim, N. 27° 33′, W. 41° 50′*†	30.30	769.0	.....	.....	.....	ne.	.....	.....	3	.....	.....	4	.....	o	o	sm'h	nne.	cloudy.†
Bk. Champion, N. 47° 00′, W. 16° 45′	.....	.....	54	12.2	.....	ssw.	.....	.....	1	.....	.....	4	.....	¼h'r	¼h'r	cross	.....	fair.
Bkt. C. S. Bushnell, Alicante, Spain	30.46	773.7	.....	.....	.....	e.	.....	.....	7	.....	.....	10	w.	20 h'r	20 h'r	cross	ssw.	squally.
S. Cornelius, N. 55° 00′, W. 22° 45′*†	29.12	739.6	41.0	5.0	.....	wsw.	.....	.....	4	.....	.....	0	.....	o	o	sm'h	.....	fine.
Bk. Commerce, Cadiz, Spain†	30.32	770.1	68	20.0	.....	calm	.....	.....	3	.....	.....	.....	.....	12 h'r	12 h'r	h'vy	ssw.	squally.
Bk. Ceres, N. 0° 43′, W. 27° 13′*	29.96	761.0	80.8	27.1	81	sse.	.....	.....	0	.....	.....	0	.....	o	o	.....	.....	fine.
Bk. Chas. Stewart, N. 22° 50′, W. 39° 29′†	30.31	769.9	74	23.3	.....	e.	.....	.....	3	.....	.....	7	var.	½ h'r	½ h'r	sm'h	var.	fair.
S. S. D. J. Foley, N. 26° 06′, W. 74° 10′*†	30.25	768.3	76	24.4	81	ese.	.....	.....	3	.....	.....	6	ene.	o	o	large	var.	
Schr. Edith R. Seward, N. 18° 20′, W. 09° 56′†	30.16	766.1	78	25.6	.....	ne.	.....	.....	5	.....	.....	6	ese.	o	o	mod.	se.	clear.
S. E. J. Spicer, N. 38° 53′, W. 28° 25′	30.09	764.3	59	15.0	94	w.	.....	.....	5	.....	.....	5f	ene.	o	o	r'gh	ese.	clear.†
Bk. E. D. Bigelow, N. 38° 30′, W. 26° 50′*†	29.96	761.0	.....	.....	.....	ssw.	.....	.....	5	.....	.....	10	w.	12 h'r	12 h'r	long	nnw.	cloudy.
Schr. F. E. McDonald, N. 30° 49′, W. 72° 45′†	30.36	771.1	72	22.2	.....	s.	.....	.....	7	.....	.....	10	sw.	6 h'r	6 h'r	cross	sw.	squally.
S. S. Foscolio, N. 46° 42′, W. 8° 09′†	30.30	769.6	.....	.....	.....	ssw.	.....	.....	1	.....	.....	0	.....	o	o	mod.	sse	fine.
S. Festina Lente, N. 54° 55′, W. 21° 43′	29.17	740.9	39	3.9	.....	wsw.	.....	.....	8	.....	.....	8	sw.	o	o	high	w.	dull.
Bk. Grey Eagle, N. 30° 45′, W. 75° 55′	.....	.....	.....	.....	.....	var.	.....	.....	0	.....	.....	10	w.	12 h'r	12 h'r	rg'h	s.	rainy.
Bg. Gipsey Queen, Cardenas, Cuba, W. I*†	30.10	764.5	74	23.3	.....	calm	.....	.....	0–2	.....	.....	5	sw.	o	o	light	e.	dense fog.
Bg. George, N. 39° 50′, W. 73° 30′*†	30.38	771.6	.....	.....	.....	ene.	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	overcast
Schr Hattie Weston, Mayaro, Trinidad, W. I *†	30.03	762.7	80	26.7	.....	ene.	.....	.....	3	.....	.....	10	.....	driz.	driz.	mod.	ese.	foggy.
Bk. Hattie G. McFarland, Pascagoula, Miss*†	30.14	765.5	68	20.0	.....	ene.	.....	.....	3	.....	.....	8	ene.	o	o	mod.	e.	cloudy.
Bk. Horace Scudder N. 17° 00′, W. 40° 30′*†	30.12	765.0	76	24.4	.....	ese.	.....	.....	4	.....	.....	0	.....	o	o	.....	.....	clear.
Schr. Isabel Alberto, N. 31° 19′, W. 72° 35′†	30.30	769.6	.....	.....	.....	e.	.....	.....	4	.....	.....	0?	e.	o	o	long	ese.	clear?
S. S. J. W. Wilson, Lobos Island, Mexico*†	29.75	755.6	70	21.1	.....	wsw.	.....	.....	1	.....	.....	0	.....	o	o	long	sse.	clear.
Schr. John L. Thomas, N. 29° 26′ W. 79° 50′*†	30.30	769.6	.....	.....	.....	se.	.....	.....	2	.....	.....	10	se.	o	o	h'vy	se	hazy.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe*†	30.16	766.1	.....	.....	.....	ese.	.....	.....	3	.....	.....	1	ese.	o	o	mod.	ese.	clear.
Bg. Lilian, off Newpoint, Var	30.21	767.3	44	6.7	.....	calm	.....	.....	0	.....	.....	1	ese.	o	o	.....	.....	clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3	.....	.....	.....	ene.	.....	.....	1	.....	.....	10	.....	o	o	.....	.....	foggy.
S. S. Madrid, N. 56° 00, W. 3° 43′*†	30.06	778.7	50	10.0	71	se.	.....	.....	1	.....	.....	0	.....	o	o	.....	.....	fine.
Bk. Mary A. Troop, Sharpness Point, Eng*†	30.40	772.1	.....	.....	.....	var.	.....	.....	4	.....	.....	1	ssw.	o	o	mod.	wsw.	fair.
Bgt. Myrtle, Saint Thomas, W. I	.....	.....	.....	.....	.....	wnw.	.....	.....	2	.....	.....	0f	.....	o	o	.....	.....	fair?
S. M. P. Grace, N. 34° 51′, W. 40° 40′*	30.12	765°0	58	14.4	.....	ene.	.....	.....	4	.....	.....	1	ene.	o	o	.....	.....	fair.
S. S. Mendoza, N. 29° 50′, W. 49° 57′*†	30.35	770.9	.....	.....	.....	var.	.....	.....	6	.....	.....	10	ne.	rain	rain	sm'h	ne.	
Bkt. Norena, Matanzas, Cuba, W. I *†	30.19	766.8	.....	.....	.....	calm	.....	.....	0	.....	.....	1	ne.	o	o	sm'h	.....	clear.
Schr. Ocean Traveler, N. 29° 37′, W. 77° 43′ †	30.23	767.8	.....	.....	.....	e.	.....	.....	1	.....	.....	0	.....	o	o	.....	.....	clear.
Bk. Ottawa, N. 36° 59′, W. 1° 22′*	30.38	771.6	64	17.8	.....	var.	.....	.....	4	.....	.....	2	.....	.....	.....	.....	.....	clear.
S. S. Raleigh, Perth Amboy, N. J†	30.17	766.3	36	2.2	.....	e.	.....	.....	4	.....	.....	0	.....	o	o	sm'h	.....	clear.
Bk. Reindeer, N. 15° 50′ W. 62° 10′*	29.90	761.0	.....	.....	.....	calm	.....	.....	0	.....	.....	fg.	.....	.....	.....	.....	.....	rainy.
S. Rudolph, N. 24° 15′ W. 41° 27′	.....	.....	68.0	20.0	.....	ene.	.....	.....	0	.....	.....	.....	ene.	.....	.....	.....	.....	clear.
Bk. Sunbeam, N. 32° 31′, W. 19° 04′	30.30	771.1	66	18.9	78	e.	.....	.....	1	.....	.....	3	s.	14 h'r	14 h'r	mod.	s.	rainy.
Bk. Scud, N. 29° 23′, W. 71° 00′*†	30.35	770.9	.....	.....	.....	se.	.....	.....	6	.....	.....	5	se.	o	o	mod.	wnw.	fair.
Schr. S. B. Hubbard, N. 38° 46′, W. 74° 30′*†	30.45	773.4	44	6.7	.....	se.	.....	.....	1	.....	.....	1	se.	o	o	sm'h	.....	fine.
Bk. Usko, N. 47° 07′, W. 10° 50′*†	30.35	770.9	.....	.....	.....	e.	.....	.....	1	.....	.....	fg.	.....	rain	rain	r'gh	e.	
						sse.	.....	.....	6	.....	.....	9	sw.	2 h'r	2 h'r	h'vy	var.	cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. Vincenzo Accame, N. 38° 12′. W. 47° 42′*†	30.43	773.0	59.0	15.0		ne.			4		3		ne.	1½h'r	1½h'r	r'gh	var.	clear.
Schr. Viola Reppard, Tybee Island, Ga†.	30.25	768.3	66	18.9		calm			0		fg.			0	0			foggy.
Schr. Wm. Wiler, Pointe a Pitre, Guadeloupe, W I†	30.08	764.0				e.			1		0			0	0			fine.
S. Wm. Woodbury, N. 61° 26′, W. 19° 28′*	29.27	743.4	42	5.6		ssw.			7		6		ssw.			high	sw.	cloudy.
S. S. Colon, N. 19° 41′, W. 74° 18′ †	30.09	764.3	78	25.6		ene.			5		3		ene.	0	0	mod	e.	clear.
S. S Ambrose, N. 27° 38′, W. 67° 47′†	30.46	773.7	73	22.8		e.			2		0			0	0			fine.
District No. 2—South Atlantic.																		
H. M. S. Heroine, S. 44° 00′, W. 61° 15′	30.10	764.5	55	12.8	93	s.			6		9	s.				4	s.	overcast.
H. M. S. Starling, S. 8° 22′, E. 12° 19′	29.89	759.2	82.2	27.9	95	sse.			1		7	ssw.				1	ssw.	d clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.87	758.7	73	22.8	75	nw.	8	3.6			2		calm	0	0			fair.
U. S. S. Galena, Colonia, Uruguay*	29.87	758.7	74	23.3	95	nw.			3		2		nw.			sm'h		clear.
S. S. Grecian, Buenos Ayres, La Plata*	29.89	759.2	74	23.3	90	w.			3		0			0	0			clear.
S. S. Hevelius, Montevideo, Uruguay †	30.02	762.5	75	23.9		nw.			6		5?		sw.	0	0			clear.?
S. S. Caldew, S. 12° 56′, W. 8° 40′	30.05	763 3	76.7	24.8	81	se.			5		3							d clouds.
S. S. May Hulse, S. 57° 39′, W. 63° 25′	29.83	757.7	45.2	7.3	83	w.			5		10							misty.
Bk. Edmund Phiney, S. 57° 44′, W. 68° 05′ †	29.97	761.2	48	8.9		w.			6		10		w.	sli't	sli't	r'gh	w.	overcast.
Bk. E. L. Pettingill, S. 28° 18′, W. 26° 23′ *†	30.30	769.6	80	26.7		nnw.			4		10		n.	4 h'r	4 h'r	sm'h		
S. E. B. Sutton, S. 26° 55′ W. 43° 30′†	29.99	761.7	79	26.1	82	se.			2		1		se.	0	0	sm'h	ne.	clear.
S. Grecian, S. 24° —′, W. 29° 27 †	30.22	767.6	81	27.2	83	ene.			4		2		ene.	0	0	sm'h		clear.
S. Geo. Stetson, S. 58° —′, W. 66° —′ *†	29.89	759.2	45	7.2	68	w.			6		8		wnw.	0	0	h'vy	wnw.	cloudy.
S. Titan, S. 31° 30′, W. 47° 27′*†	30.02	762.5	74	23.3	90	e.			2		5		w.	0	0	mod.	sne.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay †	29.92	760.0	71	21.7		nnw.			3		3		n.	0	0			clear.
District No. 3—North Pacific.																		
S. S. Mexico, Guaymas, Mexico †	30.08	764.0	55	12.8	38	nw.			4		0					sm'h		clear.
S. S. Belgic, Yokohama, Japan			43	6.1	75	n.			3		10			12 h'r	12 h'r			overcast.
S. S. Coptic, N. 38° 05′, W. 150° 59′	29.32	744.7	45.0	7.2	61	nw.			6		8		nw.	10 h'r	10 h'r	mod.	con.	cloudy.
S. S. Gaelic, N. 43° 45′, W. 159° 28′	29.48	748.8	39	3.9	82	nnw.			7		2?		nnw.	4 h'r	4 h'r		wnw.	cloudy?
S. S. Oceanic, N. 33° 51′, E. 151° 25′	30.23	767.8	51	10.6	93	se.			4		9		se.			mod.	nnw.	raining.
S. S. Columbia, N. 45° 37′, W. 124° 12′			41.5	5.3	70	ene.			2		10		nne.			mod.	nnw.	cloudy.
S. S. Mississippi, N. 44° 38′, W. 124° 47′†	30.41	772.4	43	6.1	83	sse.			2		7		s.			mod.	nw.	fair.
S. S. Ancon, N. 35° 12′, W. 120° 54′ †	30.27	768.8	46	7.8	62	e.			3		0					sm'h		clear.
S. S. City of Chester, Eureka, Cal*†	30.38	771.6	35	1.7	90	calm			0		0			0	0			clear.
S. S. G. W. Elder, Tacoma, Wash. Ter†	30.63	778.0	29	— 1.7	78	calm			0		0					sm'h		clear.
S. S. Orizaba, N. 36° 38′, W. 122° 08′ *†	30.26	768.6	50	10.0	79	w.			6		1		w.	rain	rain	long	w.	clear.
S. S. Queen of the Pacific. N. 37° 56′, W. 122° 55′						e.			1		0							clear.
S. S. City of New York, N. 33° 21′, W. 131° 02′†	30.27	768.8	58	14.4	64	se.			6		10		se.	0	0	mod.	nw.	cloudy.
S. S. City of Pekin, Hong Kong, China†	29.92	760.0	66	18.9	94	ene.			2		8		wsw.					cloudy.
S. S. City of Rio de Janeiro, La Libertad, San Salv'r*			82	27.8	63	ne.			1		0			0	0	light	s.	clear.
S. S. Colima, La Libertad, San Salvador†	29.90	759.4	79	26.1	100	sw.			2		0			0	0	sm'h	se.	clear.
S. S. Granada, N. 27° 11′, W. 114° 41′†	30.04	763.0	56	13.3	75	nnw.			4		0			0	0	large	wnw.	clear.
S. S. San José, N. 35° 05′, W. 121° 18′			48	8.9	70	nnw.			4		0			0	0	h'vy	nw.	clear.
S. S. Zealandia, N. 25° 19′, W. 152° 42′	29.89	759.2	69	20.6	85	s.			6		8		se.			r'gh	e.	cloudy.
H. M. S. Curacoa, N. 32° 56′, W. 136° 46′			56.5	13.6	87	nne.			1		10					5	ne.	overcast.
H. M. S. Himalaya, N. 8° 09′, E. 109° 59′	29.94	760.5	81	27.2	91	nne.			2		4					1	ne.	d. clouds.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.75	755.6	71	21.7		sw.			2		5							showery.
H. M. S. Swiftsure, N. 4° 45′, W. 110° 42′	29.85	758.2	77	25.0	95	nne.			3-4		9	n.						showery.
U. S. Naval Hospital, Yokohama, Japan*	29.90	759.4	38	3.3	90	calm			0		5		w.	light	ligh			fair.
U. S. S. Independence, Mare Island, Cal.	30.38	771.6	34	1.1	100	nw.			1		0			0	0			clear.
U. S. S. Lackawanna, Honolulu, Sandwich Islands*	29.71	754.6	73	22.8	81	sw.			3		8		sw.					cloudy.
U. S. S. Monocacy, Hong Kong, China	29.97	761.2	68	20.0	90	ne.			1		8		calm					fair.
U. S. S. Palos, Tientsin, China*	30.16	766.1	32	0.0	90	calm			0		10		calm					cloudy.
U. S. S. Ranger, Mare Id, Cal.	30.35	770.9	43	6.1	75	calm			0		0			0	0			clear.
U. S. S. Richmond, Hong-Kong, China*	29.90	759.4	67	19.4	100	ne.			0-1		8		ssw.	0	0			cloudy.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.77	756.1	74	23.3	81	sw.			1		2		sw.			sm'h		fair.
S. S. Scotia, N. 19° 53′, E. 114° 59′	29.98	761.5	74.7	23.7	86	e.			2		1							blue sky.
S. Henry Failing, N. 37° 12′, W. 123° 28′†	30.37	771.4	48	8.9		ese.			3		1		e.	0	0	long	nw.	fine.
S. St. Francis, N. 15° 26′ W. 124° 20′†	30.11	764.8	70	21.1		e.			6		5		e.	0	0	h'vy	nne.	fair.
Tamega, Macao, China	30.02	762.4	69.8	21.0	89	calm			0		10			0	0			overcast
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.89	759.2	67	19.4	100	calm			0		10							foggy.
H. M. S. Kingfisher, S. 11° 06′, W. 89° 34′	29.88	758.9	75	23.9		sse.			3		6					4	se.	d. clouds.
H. M. S. Lark. S. 36° 50′, E. 174° 49′	29.88	758.9	70.3	21.3	85	n.			3		6					1	n.	d. clouds.
H. M. S. Liffey S. 29° 56′, W. 71° 20′	29.91	759.7	62	16.7		nne.			3							3	nne.	d. clouds.
H. M. S Rocket, S. 53° 10′. W. 71° 00′	30.11	764.8	51	10.6	100	calm			0		4							d. clouds.
H. M. S. Sylvia, Crooked Reach, Patagonia	30.10	764.5	52	11.1	79	wnw.			3		7							d. clouds.
U. S. S. Essex, Callao, Peru	29.84	757.9	68	20.0	95	calm			0		10							misty.
U. S. S. Iroquois, S. 32° 53′, W. 100° 02′	30.26	768.6	70	21.1	85	ne.			3		2		ne.			sm'h	s.	clear.
U. S. S. Onward, Callao, Peru*†	29.99	761.7	66	18.9	94	sw.			1		10		n.					foggy.
U. S. S. Pensacola, S. 19° 03′, W. 75° 30′*	29.81	757.2	72	22.2	71	sse.			3		10		sse.	0	0	long	sse.	cloudy.
British Merchant, S. 31° 18′, W. 135°38′	29.96	761.0	71.8	22.1	85	se.			3		4							d. clouds.
Bk. Childwall, S. 17° 24′, W. 137° 00′ *	29.80	756.9	78	25.6		calm			0		6		w.	0	0	light	s.	fine.
Bk. Gronsvaer, Auckland, N. Z†	29.87	758.6	71.2	21.8		ne.			5		5		nne.	0	0			fair.
Bk. Godeffroy, S. 21° 05′, W. 73° 57′*	29.72	754.9	70.0	21.1	73	s.			4		6		s.	0	0	mod.	s.	fair.
S. S. Australia, Sydney, N S W*	29.48	748.8	70	21.1	85	calm			0		5		se.	0	0			clear?
S. S. City of Sydney, Sydney, N. S. W †	29.91	759.7	73	22.8	67	e.			2		2		e.	0	0			fair.
H. M. S. Gannet, S. 4° 15′, W. 81° 10′	29.85	758.2	77	25.0	77	sw.			3		9					2	s.	showery.
Bkt. Warden Law, S. 33° 00′, W. 88° 55′*	30.31	769.9				ese.			2		6		ese.	0	0	sm'h	s.	cloudy.
S. Sovereign of the Seas, S. 56° 05′, W. 77° 02′ *†	30.01	762.2	48	8.9	92	nnw.			5		10		nw.	0	0	high	wnw.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 6° 10′, E. 39° 11′	29.89	759.2	82	27.8		ene.			2		5		ene.			1	nnw.	d. clouds.
H. M. S. Eclipse, N. 28° 59′ E. 50° 48′	29.96	761.0	62	16.7		wnw.			3		0							blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.86	758.4	84	28.9		nne.			3		3		ene.			2	nne.	d. clouds.
H. M. S. Woodlark, N. 26° 19′, E. 56° 00′	29.88	758.9	72.5	22.5	71	ssw.			6		6		sw.			2	sw.	d. clouds.
S. S. Galatia, N. 11° 53′, E. 46° 57′†	29.92	760.0	78	25.6	84	ene.			3		1		ne.	0	0	sm'h	ne.	fine.
Bk. Essex, S. 35° 09′, E 20° 07′ *†	30.10	764.5	73	22.8		sse.			1		0			0	0	h'vy	wsw.	clear.
Bkt. Josephine, S. 33° 54′, E. 26° 23′†	30.11	764.8	73	22.8	72	e.			3		2			h'vy	h'vy	long	s.	hazy
S. Sacramento. S. 45° 25′, E. 39° 00′*†	29.86	758.4	44	6.7	84	w.			6		8		w.	3 h'r	3 h'r	h'vy	w.	clear.

International Chart I. February 16, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B.Hazen, Chief Signal Officer.
Signal Office 14th.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 17, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mil.	Inch.	Mil.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mil.		
Algerian.																			
Nemours	.....	.....	30.40	772.2	59.4	15.2	81	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.35	771.0	57.9	14.4	78	nw.	.....	.....	4	.....	4	.....	.....	0	0	cloudy	Thève.
La Calle	.....	.....	30.19	766.8	48.9	9.4	82	w.	.....	.....	7	.....	7	.....	.....	0.591	15.0	very cloudy	Fonfrède.
Tunis	.....	.....	30.22	767.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.38	771.7	65.1	18.4	47	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Pérès.
Tebessa	.....	.....	30.30	769.5	41.0	5.0	66	w.	.....	.....	4	.....	3	.....	.....	0.197	5.0	pretty fair	Dognon.
Geriville	.....	.....	.....	.....	55.0	12.8	6	nw.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Forfert.
Laghouat	.....	.....	30.35	771.0	47.8	8.8	60	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.34	770.7	60.4	15.8	21	nw.	.....	.....	0	.....	3	.....	.....	0	0	pretty fair	Malau.
Australian.																			
Melbourne, Victoria	29.55	750.6	29.64	752.8	64.0	17.8	82	wsw.	10	4.5	.....	.....	3	.....	.....	0.01	0.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.82	757.4	30.40	772.1	37.9	3.3	44	e.	.....	.....	2	.....	7	.....	.....	0	0	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	29.67	753.7	30.50	774.8	23.0	— 5.0	86	e.	3.1	1.4	.....	.....	4	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.54	750.4	30.48	774.3	28.4	— 2.0	70	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.08	738.5	30.39	772.0	35.6	2.0	79	sw.	.....	.....	2	.....	10	.....	.....	0.020	0.5	.....	Andreas Rospini.
Hermannstadt	28.89	733.9	30.42	772.6	29.3	— 1.5	88	se.	.....	.....	2	.....	5	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.96	735.6	30.37	771.5	34.2	1.2	92	calm	.....	.....	0	.....	10	.....	.....	0.028	0.7	gloomy	The Staff.
Lemberg	29.51	749.6	30.59	777.0	20.3	— 6.5	73	se.	.....	.....	2	.....	2	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.84	681.8	30.34	770.6	35.8	2.1	49	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.10	764.5	30.21	767.4	47.7	8.7	51	ene.	.....	.....	3	.....	3	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.94	760.4	30.41	772.4	32.7	0.4	64	s.	.....	.....	2	.....	1	.....	.....	0	0	.....	Joseph Midlinszay, S. J.
Szegedin	30.14	765.6	30.44	773.2	29.8	— 1.2	65	s.	.....	.....	2	.....	7	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.15	765.8	30.25	768.3	46.0	7.8	36	ne.	.....	.....	2	.....	6	.....	.....	0	0	.....	Royal Academy.
Vienna	29.68	753.8	30.44	773.1	32.4	0.2	75	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.95	760.7	30.05	763.3	41.0	5.3	87	sse.	31	13.9	.....	.....	10	.....	.....	1.510	38.4	raining	W. Boswell
Armagh, Observatory	29.55	750.6	29.80	756.9	47.8	8.8	92	sse.	23	10.3	.....	.....	10	.....	.....	.....	.....	raining	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.05	763.3	43.8	6.6	71	sse.	33	14.8	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.59	751.6	30.14	765.5	42.9	6.1	68	sse.	12	5.4	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth.
Bradford, Yorkshire	29.76	755.9	30.15	765.8	44.1	6.7	65	se.	.....	.....	2	.....	8	.....	.....	0.10	4.1	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes	29.98	761.5	30.00	762.0	80.0	26.7	66	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C
Cardington	30.22	767.6	30.33	770.4	43.0	6.1	75	s.	.....	.....	0.4	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	30.26	768.6	30.39	771.9	40.3	7.9	69	sw.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.89	759.2	30.13	765.3	48.9	9.4	86	s.	.....	.....	0	.....	10	.....	.....	.....	.....	squally	The Staff.
Fort Napier, Natal	27.64	702.0	29.87	758.7	81.8	27.7	60	ne.	.....	.....	1	.....	7	.....	.....	.....	.....	.....	Corpl. F. Milner, A. H. C.
Freetown	29.64	752.8	29.87	758.7	85.0	29 4	91	e.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	30.72	780.3	30.76	781.3	36	2.2	80	w.	.....	.....	3	.....	10	.....	.....	0.47	11.9	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.23	767.8	30.29	769.4	64.0	17.8	95	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.71	754.6	29.91	759.7	43.1	6.2	75	sse.	.....	.....	5	.....	10	.....	.....	.....	.....	overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.18	766.6	30.36	771.1	45.0	7.2	93	s.	.....	.....	4	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	30.00	762.0	30.31	769.9	45.5	7.5	73	s.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.31	769.9	30.35	770.9	44.9	7.2	68	s	20	8.9	.....	.....	9	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.99	761.7	30.25	768.3	42.8	6.0	77	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	30.00	762.0	30.07	763.8	58.0	14.4	94	nw.	.....	.....	2	.....	6	.....	.....	0.02	0.5	d. clouds	Corpl. Keene, A. H. C
Nassau, Bahamas	30.22	767.6	30.26	768.6	75.0	23.9	76	e.	.....	.....	3	.....	7	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.69	754.1	30.23	767.8	44.8	7.1	67	s.	.....	.....	4	.....	7	.....	.....	.....	.....	threatening	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	30.06	763.5	30.29	769.4	43.8	6.6	77	sse.	.....	.....	4	.....	9	.....	.....	.....	.....	squally	The Staff.
Plymouth	30.13	765.3	30.20	767.1	47.2	8.4	81	sse.	.....	.....	4	.....	10	.....	.....	.....	.....	drizzling	John Merrifield.
Sandwick Manse, Orkneys	29.67	753.0	29.77	756.1	41	5.0	91	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	raining	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.15	765.8	30.21	767.3	43.2	6 2	79	nne.	.....	.....	3	.....	8	.....	.....	.....	.....	showery	W. H. Lyne.
Sheffield	29.87	758.7	30.17	766.3	45.9	7.7	68	sw.	.....	.....	1	.....	9	.....	.....	0.24	6.1	overcast	W. F. Cooper.
Silloth Rectory	29.90	761.0	29.99	761.7	41.7	5.4	83	s.	.....	.....	0	.....	10	.....	.....	0.075	1.9	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.15	765 8	42.1	5.6	67	s.	25	11.2	.....	.....	10	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Stratfield Turgiss	30.10	764.5	30.32	770.1	45.5	7.5	74	sw.	.....	.....	2	.....	9	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	30.04	763 0	30.08	764.0	51	10.6	93	s.	.....	.....	9	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.74	755.4	29.76	755 9	43.3	6.3	90	nnw.	16	7.2	.....	.....	10	.....	.....	.....	.....	raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.60	751.8	29.99	761.7	55.4	13.0	59	nnw.	0.2	2.8	.....	0	4 cn	.....	nw.	0.390	9.9	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	28	— 2.2	.....	sw.	2	0.9	.....	.....	1c n	.....	.....	trap.	trap.	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.81	757.2	29.85	758.2	30	2.2	92	s.	14	6.3	.....	.....	10 n	.....	calm	0.653	16.6	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.68	753.9	29.74	755.4	38	3.3	92	sw.	7	3.1	.....	.....	10 n	.....	.....	0.18	4.6	cloudy	G. A. Blair.
Cornwall	29.46	748.3	29.66	753.4	44.3	6.8	97	w.	.....	.....	3	.....	10 s	.....	.....	0.234	5.9	overcast	Jas. Smith, M. A.
Dalhousie	29.55	750.6	29.00	751.8	32.5	0.3	.....	e.	.....	.....	1	.....	10 n	.....	.....	0.33	8.4	raining	H. A. Johnson.
Father Point, Quebec*	29.36	745.7	29.38	746.2	40	4.4	100	sw.	30	13.4	.....	.....	10 n	.....	sw.	0.13	3.3	light rain	J. McWilliams.
Fort Garry, Manitoba*	29.59	751.6	30.89	777.0	—25	—31.7	100	n.	11	4.9	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton	29.70	755.9	29.83	757.7	40.0	4.4	92	e.	1	0.4	.....	.....	10	.....	.....	0.315	8.0	misty	Prof. Harrison, L. L. D.
Granton	28.84	732 5	29.98	761.5	31.0	— 0.6	100	nw.	9	4.0	.....	.....	10 n	.....	.....	0.80	20.3	overcast	Jas. Grant.
Halifax, N. S*	29.89	759.2	30.03	762.7	38	3.3	100	s.	11	4.9	.....	.....	10 n	.....	.....	0.170	4.3	light rain	A. Allison.
Hamilton	29.41	747.0	29.80	756.9	35.7	2.1	89	sw.	.....	.....	3	8 ck	0	.....	.....	0.15	3.8	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.43	747.5	29.77	756.1	39	3.9	96	sw.	8	3.6	.....	.....	10 n	.....	.....	0.17	4.3	light rain	A. P. Knight, M. A
Montreal, Quebec*	29.43	747.5	29.03	752.6	43	6.1	100	s.	24	10.7	.....	.....	10 n	.....	.....	0.43	10.9	light rain	C. H. McLeod, C. E.
Ottawa	29.38	746.2	29.03	752.6	40.4	4.7	94	s.	.....	.....	2	.....	10 s	.....	.....	0.2	5.	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.11	739.4	29.83	757.7	31	— 0.6	88	w.	30	13.4	.....	.....	10 n	.....	.....	1.27	32.3	cloudy	Rev. R. Mosley.
Peterboro	29.18	741.2	29.95	760.7	38.7	3.7	91	sw.	.....	.....	1	0	7 k	.....	.....	0.24	6.1	d. clouds	J. Dixon, B. A.
Port Dover, Ontario	29.22	742.2	29.93	760.2	37	2.8	100	w.	17	7.6	.....	.....	10 n	.....	w.	0.24	6.1	threatening	H. Morgan.
Port Stanley, Ontario	29.35	745.5	30.02	762.5	34	1.1	78	w.	24	10.7	.....	.....	10 n	.....	sw.	0.18	4.6	cloudy	M. Payne.
Quebec, Quebec*	29.25	742.9	29.58	751.3	36	2.2	100	w.	.....	.....	3	.....	1c n	.....	.....	0.67	17.0	heavy rain	Capt. Ashe, R. N
Rockliffe, Ontario*	29.14	740.1	29.60	751.8	40	4.4	76	w.	12	5.4	.....	.....	10 ks	.....	sw.	0.22	5.6	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.16	740.7	29.90	759.4	29	— 1.7	92	w.	22	9.8	.....	.....	10 s	.....	.....	0.97	24.6	cloudy	.....
St. Andrews, N. B	29.80	756.9	29.85	758.2	38	3.3	90	sw.	7	3.1	.....	.....	10 n	.....	.....	0.10	2.5	foggy	.....
St. John, N. B	29.72	754.9	29.88	758.9	37	2.8	90	sw.	13	5.8	.....	.....	10	.....	.....	0.185	4.7	dense fog	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.16	766.1	26.6	— 3.0	.....	sw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	28.67	728.2	30.00	762.0	29.2	— 1.6	94	w.	19	8.5	.....	.....	10 s	.....	.....	1.299	33.0	overcast	C. J. Macgregor, M A.
Sydney, C. B*	29.98	761.5	30.04	763.0	35	1.7	100	s.	24	10.7	.....	.....	10 n	.....	.....	0.30	9.1	light rain	T. C. Hill, C. E.
Toronto, Ontario*	29.54	750.3	29.93	760.2	39	3.9	76	w.	20	8.9	.....	.....	10 ks	.....	w.	0.22	5.6	cloudy	Magnetic Observatory.
Windsor	29.82	757.4	29.91	759.7	42.0	5.6	100	w.	20	8.9	.....	.....	10 n	.....	.....	0	0	overcast	Prof. W. H. Butler, M.A
Woodstock	28.89	733.8	29.99	761.7	32.7	0.4	99	sw.	20.0	8.9	.....	10 k	0	w.	.....	0.50	12.7	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.93	760.2	30.00	762.0	39	3.9	100	s.	5	2.2	.....	.....	fg.	.....	.....	0.03	0.8	foggy	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
Cape Colony.																			
Cape St. Francis Lt. House	30.01	762.2	30.04	763.0	73.0	22.8	89	e.	15.8	7.1		0	1 k			0	0	hazy	**John Duthie.**
Springbok Fontein	27.86	707.6			91	32.8	67	se.											**J. T. Eustace.**
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.56	623.7			26.6	— 3		calm			0		fg					foggy	
Tchang-kia-tchouang	30.20	767.0	30.31	769.8	27.3	— 2.6	100	calm			0		10			0.118	3.0	snowing	R. P. Desarmont, S.J.
Zi-Ka-Wei, near Shanghai	30.10	764.4	30.12	765.0	44.6	7.0	100	e.	1.8	0.8			10			0.157	4.0	raining	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.54	775.6	30.58	776 8	31.6	— 0.2	83	se.	18	8			1						Oversergent Fischer.
Fanoe	30.46	773.7	30.48	774.2	33.6	0.9	85	sse.			4		9						**Overloerer Lauridsen.**
Godthaab, Greenland	29.28	743.6	29.32	744.7	15.1	— 9.4	97	s.			4		10						S. Kleinschmidt.
Ivigtut, Greenland	29.39	746.6	29.41	747.1	13.3	—10.4		calm			0		3						
Jacobshavn, Greenland	29.30	744.3	29.35	745.5	6.1	—14.4		calm			0		8						
Stykkisholm, Iceland	28.72	729.4	28.76	730.5	36.3	2.4	84	s.			8		10					snowing	A. O. Thorlacius.
Thorshavn	29.45	748.0	29.48	748.9	44.6	7.0	88	ssw.	30.2	13.5			8						Overloerer Bergh.
Vestervig	30.40	772.1	30.49	774.4	32.2	0.1	92	se.			2		9						Loerer Oesterbol.
Upernavik, Greenland	29.25	743.0	29.30	744.2	— 4.0	—20.0		e.			2		10						
French.																			
Agen, Normal School	29.79	756.6	30.45	773.3	46.8	8.2	67	calm			0		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.87	758.6	30.42	772.6	41.7	5.4	97	s.			1		s	n.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	30.15	765.8	30.42	772.6	41.9	5.5	94	sw.			2		cn			0	0		M. Fénéon, Command't.
Avignon, Normal School	30.13	765.4	30.21	767.4	48.2	9	58	nnw.			6		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.87	758.6	30.46	773.6	36.9	2.7	89	ne.			1		10		ne.	0.031	0.8	covered	M. Sallard, Director.
Beauvais, Normal School	30.19	766.9	30.47	774.0	40.1	4.5	77	e.			1		0			0	0	clear	M. Frère Eugène Marié
Besançon, Normal School	29.40	746.7	30.31	769 9	48.6	9.2	86	ne.			3		k		sw.	0.12	3.		M. Gobin, Director.
Bordeaux, Observatory	30.12	765.0	30.39	771.9	47.7	8.7	58	e.			1		2			0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.87	758.8	30.46	773.7	34.7	1.5	93	e.			1		n		e.	0	0		M. Malet, Director.
Brest, Naval Observatory	30.00	762.1	30.25	768.3	52.5	11.4	75	s.			3		9		s.	0	0		M. de Kermaréc, Dir.
Caen, Normal School	30.34	770.7	30.42	772.7	44.8	7.1	74	nw.			2		10			0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.05	763.2	30.38	771.6	43.9	6.6	80	w.			2		2			0.016	0.4	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.95	760.8	30.47	774.0	45.3	7.4	91	ese.			1		5			0.04	1.	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.01	736.8	30.44	773.1	37.9	3.3	80	nw.			1		10			0	0	covered	M. Allnard, Director.
Cluny, Normal School	29.50	749.2	30.38	771.6	45.5	7.5	80	n.			2		5		n.	0.04	1.		M. de Villemontée, Dir.
Commercy, Normal School	29.54	750.3	30.45	773.4	39.7	4.3	74	nw.			1		8 k	nw.	nw.	0.008	0.2	very cloudy	Dr. Coulet, Director.
Gap, Normal School	27.63	701.7	30.22	767.7	42.8	6	77	n.			3		0			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.03	737.4	30.17	766.4	52.3	11.3	46	sw.			1		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.56	750.8	30.33	770.4	44.2	6.8	69	nw.			1	cs	0	ne.		0.059	1.5		M. Ablard, Director.
Guéret	28.92	734.5	30.54	775.7	42.8	6	85	sw.			2	0	0			0	0	clear	**M. Delorme, Dir.**
Lamballe, Normal School	30.05	763.2	30.32	770 2	45.7	7.6	83	sse.			3		5		sse.	0	0	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.76	755.8	30.33	770.4	51.1	10.6	41	sse.			1	1 c	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.25	768.3	30.35	770.9	50.4	10.2	50	s.			2		10	calm	se.	0.236	6.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.26	743.2	30.39	770.9	43.3	6 3	66	n.			2	0	2 k			0.012	0.3	hazy	M. André, Director.
Mans, Normal School	30.12	765.0	30.44	773.1	45.7	7.6	60	nnw.			1		5		n.	0	0	cloudy	M. Piboën, Director.
Marseille, Observatory	29.89	759.2	30.16	766.1	55.0	12.8	57	w.			1.2		0			0	0		M. Stephan, Director.
Montlouis	24.94	633.4	29.78	756.4	38.3	3.5	9	ne.	11.2	5.0			0			0	0		**M. Caré for Dr. Fines.**
Montpellier, Normal School	30.10	764.6	30.24	768 0	52.5	11.4	63	calm			0		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.58	751.2	30.39	771.8	41.7	5.4	69	nnw.			1	ck	0			0.102	2.6		M. Hasse, Director.
Nantes, Observatory	30.28	769.0	30.44	773 2	51.3	10.7	46	se.			1–2	c	6 ckn	nnw.		0	0		M. Larocque, Director.
Perpignan, Observatory	30.17	766.2	30.28	769.1	52.9	11.6	27	ne.	13.0	5.8			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.29	540.8			21.9	— 5.6		ne.			2		1		ne.	0	0	clear	**M. Vaussenat, Director.**
Privas, Normal School	29.21	742.0	30.32	770.1	42.8	6	79	n.			1		5	n.	n.	0	0	cloudy	M. Taillen.
Puy de Dôme Obs'y, Summit	25.30	642.7			24.8	— 4.0	98	ene.			3		2		ene.	0.035	0.9	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	30.32	770.1	30.35	770.9	50.0	10.0	86	calm			0		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.10	764.6	30.32	770.2	44.6	7	55	nw.			3		5		e.	0.059	1.5	cloudy	M. Brotier, Director.
Rodez, Normal School	28.13	714.6	30.37	771.4	39.6	4.2	70	nw.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.42	772.7	30.47	773.9	41.0	5	84	nw.			1		0			0	0	clear	M. Mouillot.
Saint Lô					43.5	6.4	62	se.			2		5		n.	0	0	cloudy	**M. Delaplanche, Dir.**
Saint Maur, Observatory	30.30	769.6	30.47	773.8	34.3	1.3	100	calm			0		10			0	0	foggy	M. Renou, Director.
Toulouse, Observatory	29.66	753.4	30.40	772.1	46.0	7.8	59	nw.			1		1	w.		0	0	clear	M. Baillaud, Director.
Tours	30.24	768.2	30.42	772.7	45.7	7.6	74	nne.			1		0			0	0	clear	M. de Tastes.
Versailles, Observatory (*Sub-series*)	29.95	760 7	30.44	773.2	42.8	6.0	70	s.			1					0	0		Dr. A. Bérigny, Director
St. Martin du Hinx	30.22	767.7	30.37	771.5	49.5	9.7	50	e.	11.9	5.3		4 c	0	wsw.		0	0		**M. Cartier, Director.**
German.																			
Ansbach	28.89	733 9	30.42	772.7	36.0	2.2	91	calm			0		10			0.173	4.4		**Prof. Jnedt.**
Bamberg	29.48	748.8	30.33	770.4	41.0	5.0	82	calm			0	0	4 k		se.	0.079	2.0		**Prof. Dr. Hoh.**
Berlin	30.36	771.1	30.51	775.0	31.1	— 0.5	61	e.			3		1			0	0		**Meteorological Institute.**
Breslau	29.97	761.1	30.50	774 8	25.7	— 3.5	63	ese.			2		7			0	0		Royal University Obs'y
Carlsruhe	29.94	760.4	30.42	772.6	43.7	6.5	80	ne.			1		10	ne.		0	0		Albert Senz.
Cassel	29.60	751.8	30.31	769.9	43.5	6.4	71	nnw.			1		8	nw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	30.03	762.8	30.41	772.5	43.5	6.4	78	nnw.			1		10			0	0		**Physical Society.**
Friedrichshafen	28.89	733.9	30.39	771.9	40.3	4.6	87	se.			2		10	e.		0	0		Wilhelm, Chief Tel.
Hamburg	30.39	772.0	30.48	774.3	32.2	0.1	81	ese.			3		3	nw.		0	0	hazy	E. Preller.
Kiel	30.47	773.8	30.48	774.2	35.1	1.7	73	e.			2		5			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	30.03	762.7	30.48	774.1	29.7	— 1.3	90	e.			2		10			0	0		H. Leppig, Asst.
Magdeburg	30.28	769.2	30.49	774.4	27.9	— 2.3	87	ne.			1		10			0	0	foggy	**Dr. Assmann.**
Memel	30.72	780.4	30.77	781.6	29.3	— 1.5	41	se.			4	0	0					clear	Issermann.
Munich	28.48	723.5	30.37	771.4	35.1	1.7	90	nw			1		10	w.		0.122	3.1		**Central Station.**
Neufahrwasser	30.71	780.1	30.73	780.5	27.9	— 2.3	67	e.			1		0			0	0		**A. Lothes.**
Neustadt, Palatinate	29.89	759.3	30.43	772.9	44.1	6.7	78	n.			2		10	n.		0.098	2.5		Dicknether.
Stuttgart	29.40	746.7	30.33	770.3	40.1	4.5	89	n.			1		10			0	0	foggy	**Prof. Dr. Schoder.**
Wustrow	30.55	776.0	30.58	776.6	32.0	0.0	74	ese.			2	0	3 s			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.80	756.8	30.19	766.8	46.4	8.0		ne.			2.5		10			0	0	covered	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.85	758.2	29.90	759.5	73.9	23.3	76	wsw.	25.0	11.2			7	ssw.	w.	0	0	d. clouds	
Deesa	29.39	746.5	29.86	758.5	83.0	28.3	19	sw.	10.0	4.5			8	wsw.		0	0	d. clouds	
Bombay	29.89	759.2	29.93	760.2	81.5	27.5	60	wnw.	13.0	5.8			2	w.		0	0	d. clouds	
Poona, Yarrowda	28.02	711.7	29.84	758.0	88.8	31.6	18	w.	22.0	9.8			1	w.		0	0	d. clouds	
Belgaum	27.35	694.0	29.84	757.8	89.7	30.4	22	wsw.	6.0	2.7			0			0	0	blue sky	
Lahore	29.06	738.1	29.82	757.5	68.2	20.1	42	e.	4.0	1.8			6			0	0	gloomy	
Roorkee	28.99	736.4	29.90	759.5	75.2	24.0	35	w.	2.0	0.9			4	w.		0	0		
Agra	29.32	744.8	29.89	759.3	77.7	25.4	36	se.					9		s.	0	0	d. clouds	
Nagpur	28.84	732.4	29.86	758.4	90.5	32.5	21	ssw.	4.0	1.8			3	w.		0	0	d. clouds	
Jubbulpore	28.54	725.0	29.89	759 1	85.7	29.8	18	ne.	2.0	0.9			5		e.	0	0	d. clouds	
Lucknow	29.58	751.3	29.96	761.1	72.2	22.3	48	calm	0	0			9			0	0	d. clouds	
Allahabad	29.64	752.8	29.96	760.9	69.8	21.0	52	calm	0	0			7			0	0	d. clouds	
Patna	29.77	756.2	29.95	761.0	71.1	21.7	49	ssw.	2.5	1.1			6	sw.	ssw.	0	0	d. clouds	
Hazaribagh	27.92	709.1	29.96	761.0	71.6	22.0	29	nw	5.0	2.2			2			0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
INDIAN.—Continued.																			
Cuttack	29.86	758.4	29.94	760.4	83.0	28.3	48	calm	0	0			1			0	0	blue sky	
Calcutta, Alipore	29.93	760.1	29.95	760.7	74.8	23.8	44	nnw	1.0	0.4			3			0	0	d. clouds	
Dhubri	29.83	757.7	29.95	760.8	71.2	21.8	47	calm	0	0			0			0	0	blue sky	
Chittagong	29.86	758.5	29.96	760.9	72.6	22.6	51	w.	4.0	1.8			3			0	0	blue sky	
Sibsagar	29.63	752.7	29.98	761.6	64.3	17.9	76	nw.	2.0	0.9			0			0	0	blue sky	
Jeypore	28.44	722.3	29.91	759.8	69.7	20.9	62	s.	1.3	0.6			9		s.	0	0	d. clouds	
Bellary	28.41	721.6			88.6	31.4	23	se.	4.	1.8			0			0	0	blue sky	
Trichinopoly	29.67	753.6			87.8	31.0	26	e.	1.	0.4			0			0	0	blue sky	
ITALIAN.																			
Udine	29.85	758.2	30.26	769.0	47.1	8.4	43	se.	8.7	3.9			7						Prof. Giovanni Clodig.
Milan	29.73	755.1	30.26	768.7	48.7	9.3	57	se.	2.5	1.1			2			0.059	1.5		Prof. Schiapparelli.
Padua	30.15	765.8	30.26	768.7	48.4	9.1	48	ne.	11.2	5.0			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.32	744.7	30.26	768.6	50.0	10.0	63	ne.	1.8	0.8			4	n.		0	0		Prof. F. F. Denza.
Genoa	29.96	761.0	30.16	766.0	55.0	12.8	39	n.	8.1	3.6			2	s.		0.382	9.7		Prof. G. M. Garibaldi.
Mondovi	28.29	718.6	30.30	769.5	44.6	7.0	57	w.			2		3			1.043	26.5		Prof. D. C. Bruno.
Pesaro	30.10	766.1	30.21	767.4	49.3	9.6	74	ne.	2.5	1.1			5			0	0		Prof. Luigi Guidi.
Florence	29.89	759.2	30.15	765.8	51.3	10.7	48	ne.			4		7			0.079	2.0		Prof. Costantino Pittei.
Leghorn	29.98	761.6	30.07	763.8	50.5	10.3	54	e.	11.2	5.0			10	se		0.122	3.1		Prof. P. Monte.
Rome	29.84	757.8	30.01	762.3	55.4	13.0	67	wnw.	0	0			7			0.307	7.8		Prof. P. Tachini.
Lecce	29.82	757.4	30.08	764.0	48.9	9.4	79	s.	19.9	8.9			10			0.039	1.0		Prof. C. de Giorgi.
Cosenza	29.11	739.4	30.02	762.5	54.0	12.2	76	wsw.	3.1	1.4			9	wsw.		0.272	6.9		Prof. D. Conti.
Cagliari	29.72	755.0	29.92	760.0	49.3	9.6	78	ne.			2		10			0.307	7.8		Prof. A. Pacinotti.
Palermo	29.76	755.8	30.01	762.3	55.6	13.1	47	w.	4.3	1.9			6			0.016	0.4		Prof. G. Caccintore.
Syracuse	29.98	759.3	29.94	760.4	55.6	13.1	73	nne.	4.9	2.2			8	wnw.		0.256	6.5		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.47	748.6	30.17	766.2	51.8	11.0	95	nnw.	2.5	1.1			9	ene.		0.657	16.7		Prof. F. Brioschi.
Stelvio	22.17	563.1			17.4	— 8.1	85	e.			2		0			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.20	564.0			22.8	— 5.1	58	e.			2		0			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.19	766.9	30.22	767.7	29.3	— 1.5	82	calm			0	0	0			0.012	0.3	clear	H. Hattori.
Awomori	30.22	767.6	30.26	768.6	17.2	— 8.2	97	sse.	2.5	1.1		0	0			0	0	clear	K. Ogawa.
Hakodate	30.25	768.4	30.26	768.7	23.0	— 5.0	94	n.	3.0	1.3		0	0			0	0	clear	
Hamamatsu	30.10	764.5	30.13	765.2	41.7	5.4	74	calm			0	2 cs	0			0	0	clear	
Kagoshima	30.14	765.5	30.15	765.8	53.9	12.2	79	se.			2	1 ck	0			0.012	0.3	clear	G. Miyanonasa.
Kioto	30.05	763.3	30.23	767.9	38.6	3.7	87	wnw.	1.9	0.8		ics;ck	0			0	0	clear	M. Tojima.
Kochi	30.10	766.0	30.18	766.6	47.9	8.8	73	nw.	2.5	1.1		0	0			0.118	3.0	clear	K. Kusunose.
Misaka	30.14	765.6	30.17	766.3	49.0	9.4	92	calm			0	0	8 ck		se.	0	0	cloudy	K. Masusaki.
Nagasaki, I. M. Obs'y	29.95	760.9	30.16	766.1	45.7	7.9	82	calm	0	0		0	0			0.090	2.3	clear	S. Takehayashi.
Niigata	30.17	766.3	30.21	767.3	38.0	3.3	94	sse.	0.7	0.3			10 ck		w.	0	0	cloudy	M. Morita.
Nobiru	30.21	767.4	30.23	767.8	31.1	— 0.5	69	nnw.	10.6	4.7		0	0			0	0	clear	H. Midzushima.
Numazu	30.14	765.5	30.17	766.4	44.9	7.2	72	ese.			4	4 cs;ck	0		w.	0.043	1.1	fair	R. Kaneda.
Osaka	30.22	767.7	30.24	768.1	38.4	3.6	85	nne.	2.4	1.1		0	0			0	0	clear	H. Omura.
Sakai	30.20	767.0	30.21	767.3	41.1	5.1	70	e.			4	0	0			0.039	1.0	clear	K. Yamawchi.
Sapporo					23.5	— 4.7	94	se.	9.4	4.2			0			0	0	clear	
Tokei Obs'y, Yeddo	30.13	765.2	30.20	767.2	38.5	3.6	87	ene.	4.9	2.1		0	0			0	0	clear	The Staff.
Wakayama	30.17	766.4	30.23	767.8	40.6	4.8	77	ne.	4.3	1.9		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.66	753.4	29.84	757.9	80.9	27.2	72	e.	21.0	9.4		ics;ck	6 k;n		ese.	0.25	6.3	fair	Oliver & Figon.
MEXICAN.																			
Altata					52.5	11.4	100	nw.										clear	H. Diaz Pena.
Guanajuato	23.68	601.3	29.90	759.3	58.3	14.6	76	wnw.	Imp.	Imp.		6 c	0	w.		0	0	fair	Prof. Vicente Fernandez.
Leon	24.28	616.7	30.03	762.7	51.8	11.0	82	nw.			1	0	7 ck		sw.	0	0	very cloudy	Prof. M. Leal.
Mazatlan	29.74	755.3	30.00	762.1	58.0	14.4	58	nw.	19.8	8.9		2 ck	0	sw.		0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.09	586.4	30.19	766.8	52.3	11.3	81	calm	0	0		0	3 ks			Imp.	Imp.		The Staff.
Morelia	24.31	617.5	30.26	768.5	54.1	12.3	66	se.			1	1 c	2 k	se.	se.	Imp.	Imp.		M. Tena, M. D.
Pabellon	23.92	607.5	29.91	760.5	56.1	13.4	51	calm	0	0		0	3 ks		sw.	0	0	clear	
Puebla, Catholic Institute	23.337	593.5?	30.14	765.5	50.2	10.1	45	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
Zacatecas	22.53	572.2	30.23	767.9	48.7	9.3	55	se.	9.0	4.0		1 cs	0	ese.		0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.47	773.8	30.47	773.8	43.2	6.2		s.			2					0	0		
Groningen	29.99	761.8	30.44	773.2	41.5	5.3		n.			1					0	0		
Helder																0	0		
Hellevoetsluis	30.46	773.6	30.46	773.6	45.5	7.5	75	ssw.			1					0	0		
Utrecht	30.43	772.8	30.47	774.0	42.4	5.8	80	nnw.			2		8			0	0	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.85	758.2			79.0	26.1	85	nw.	2.0	0.9			4			0.51	13.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.32	770.1	30.38	771.7	38.8	3.8	64	sse.	9	4			4			0	0		
Brono	30.34	770.5	30.37	771.5	41.7	5.4	59	se.			2		3			0.205	5.2		
Christiania	30.43	773.0	30.59	777.0	34.7	1.5	89	e.	2	1			10			0.106	2.7	foggy	
Gjaesvær	30.10	764.6	30.13	765.2	38.5	3.6		wsw.			4		9						
Lodingen	30.25	768.4	30.30	769.6	39.9	4.4	69	sw.			6		8			0.028	0.7		
PORTUGUESE.																			
Angra, Azores	30.15	765.7	30.31	769.8	53.6	12.0	78	n.	8.1	3.6			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.30	744.2	30.31	769.9	59.0	15.0	56	e.	1.8	0.8			5			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.23	767.8	30.32	770.1	63.0	17.2	68	se.	5.6	2.5			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.01	762.2	30.38	771.6	51.1	10.6	68	nne.	9.4	4.2			5	w.		0	0		The Staff.
Ponta Delgada, Azores	30.23	767.8	30.30	769.6	55.8	13.2	64	nne.	11.2	5.0			4			0.354	9.0		
Saint Paul de Loando	29.60	751.7	29.79	756.7	84.2	29.0	82	w.	0.7	0.3			4	sse.		0	0		
Serra da Estrella	25.51	647.9	30.34	770.5	43.2	6.2	52	se.	2.5	1.1			7			0	0		
RUSSIAN.																			
Akmolinski	28.90	735.5	30.15	765.9	3.2	—16.0	90	wsw.	20	9			10 n			0.004	0.1		Major K. Lasarew.
Archangel	30.40	772.1	30.42	772.6	23.4	— 4.8	86	sw.	13	6			10			0	0		Capt. Sseliwerstow.
Ashurada	30.58	776.6	30.48	774.2	37.9	3.3	73	e.	9	4		0	2 kn			0.130	3.3		
Astrakhan	30.62	777.8	30.54	775.7	19.4	— 7.0	73	n.	7	3			0			0	0		Capt. Wisganow.
Baku	30.50	774.8	30.46	774.6	36.7	2.6	63	s.	9	4		0	1 k			0	0		
Barnaul	29.71	754.7	30.26	768.7	8.8	—12.9	84	sw.	31	14			10			0.551	14.0		Meteorological Obs'y.
Bielosersk	30.26	768.7	30.78	781.9	10.6	—11.9	61	calm	0	0		0	0			0	0		
Dorpat	30.58	776.8	30.85	783.6	20.3	— 6.5	60	sw.	4	2		0	0			0	0		Observatory.
Ekaterinburg	29.37	745.9	30.39	771.9	25.9	— 3.4	76	nw.	13	6		ck	9 ks			blank	blank		Meteorological Obs'y.
Elissawetgrad	30.13	765.2	30.62	777.8	14.9	— 9.5	72	n.	9	4		0	0			0	0		
Irkutsk	28.61	726.8	30.52	775.1	—14.1	—25.6	86	calm			0		0			0	0		
Kasalinsk	29.84	758.0	30.02	762.5	11.8	—11.2	72	wsw.	9	4			10 s					light snow	
Kasan	30.42	772.7	30.71	780.1	23.5	— 4.7	81	wnw.	4	2			10			0	0		Observatory.
Kem	30.37	771.3	30.42	772.6	27.3	— 2.6	79	sw.	18	8			10 ks			0	0	heavy cl'ds	
Kertch	30.33	770.3	30.35	770.8	26.2	— 3.2	76	ene.	4	2		4 ck	0			0	0		Lagorio & Sastyrez.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
Russian.—Continued.																			
Kieff	29.99	761.8	30.70	779.7	15.1	— 9.4	66	ne.	13	6	.....	0	0	.....	.....	0	0	.....	Observatory.
Koslov	30.19	766.7	30.78	781.7	7.3	—13.7	81	nne.	13	6	.....	.....	10 s	.....	.....	0	0	.....	.....
Libau	30.70	781.3	30.78	781.9	28.6	— 1.9	43	s.	4	2	.....	.....	0	.....	.....	0	0	.....	**E. Quaas.**
Lugan	30.33	770.3	30.53	775.5	11.1	—11.6	64	nne.	9	4	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	30.31	769.8	30.85	783.5	15.3	— 9.3	51	calm	0	0	.....	0	0	.....	.....	0	0	.....	**Meteorological Obs'y**
Nikolaiev	30.43	772.9	30.50	774.8	23.4	— 4.8	55	ene.	18	8	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.07	763.7	30.15	765.9	— 2.6	—19.2	64	calm	0	0	.....	.....	5	.....	.....	0.016	0.4	.....	**Iwanow.**
Pekin, China	30.11	764.8	30.26	768.6	32.0	0.0	35	n.	9	4	.....	0	0	.....	.....	0.047	1.2	.....	**Physical Observatory.**
Petro-Alexandrovsk	30.16	766.1	30.54	775.8	22.1	— 5.5	41	w.	2	1	.....	0	3 s	.....	.....	0	0	.....	.....
Petrozavodsk	30.45	773.3	30.66	778.8	19.0	— 7.2	61	w.	11	5	.....	0	0	.....	.....	0	0	.....	**Dr. Bergmann.**
Pinsk	30.21	767.4	30.75	781.0	25.5	— 3.6	52	e.	13	6	.....	0	0	.....	.....	0	0	.....	.....
Poti	30.21	767.3	30.23	767.8	51.8	11.0	73	w.	4	2	.....	0	2 k	.....	.....	0	0	.....	.....
St. Petersburg	30.79	782.1	30.81	782.5	14.7	— 9.6	49	wsw.	2	1	.....	0	0	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.84	707.1	30.53	775.5	17.4	— 8.1	72	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	snowing	.....
Semipalatinsk	29.68	753.9	30.40	772.2	7.2	—13.8	80	se.	16	7	.....	.....	10	.....	.....	0	0	.....	Major **Lasarew.**
Sevastopol	30.05	763.3	30.29	769.3	34.2	1.2	78	n	7	3	.....	.....	10 n	.....	.....	0	0	.....	.....
Staroi Bykhov	30.30	771.2	30.86	783.9	23.4	— 4.8	25	ene.	4	2	.....	.....	.....	.....	.....	0	0	.....	.....
Tashkend	28.72	729.6	30.58	776 8	11.5	—11.4	65	calm	0	0	.....	.....	10 kn	.....	.....	0	0	.....	**Terch, A. M.**
Tiflis	28.95	735.2	30.46	773.6	29.5	— 1.4	60	e.	9	4	.....	3 cs	0	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.61	701.3	30.36	771.1	9.5	—12.5	73	calm	0	0	.....	2 cs	0	.....	.....	.....	.....	.....	.....
Viatka	29.97	761.1	30.65	778.6	16.5	— 8.6	.....	w.	7	3	.....	.....	10	.....	.....	0	0	.....	.....
Vladivostock	30.15	765.8	30.22	767.5	20.5	— 6.4	65	se.	4	2	.....	.....	8 n	.....	.....	0.004	0.1	.....	.....
Warsaw	30.18	766.5	30.64	778.3	24.4	— 4.2	39	s.	18	8	.....	0	0	.....	.....	0	0	.....	Astronomical Obs'y.
Wilna	30.40	772.1	30.85	783.7	22.1	— 5.5	49	se.	2	1	.....	.....	0	.....	.....	0	0	.....	**Berg, Assistant.**
Yeniseisk	29.65	753.0	29.97	761 0	1.9	—16.7	87	ssw.	4	2	.....	.....	10	.....	.....	0.157	4.0	snowing	**M. O. Marks.**
Scottish.																			
Monach Lt	.....	.....	29.71	754.6	45	7.2	92	sw.	.....	.....	4	.....	10	.....	.....	0.4	10.	overcast	J. Youngclause.
North Unst	.....	.....	29.91	759.7	.....	.....	.....	s.	.....	.....	8	.....	10	.....	.....	.....	.....	.....	**Robt. Burnet.**
Spanish.																			
Barcelona, Met. Obs'y	30.05	763.2	30.16	766.0	52.7	11.5	45	sw.	3.4	1.5	.....	0	1 k	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.29	769.4	30.35	770.9	56.7	13.7	53	se.	2.7	1.2	.....	0	0	.....	.....	0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.35	694.7	30.44	773.1	41.5	5.3	75	n.	1.8	0.8	.....	0	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.09	713.5	30.40	772.0	46.9	8.3	63	sw.	4.0	1.8	.....	4	0	.....	.....	0	0	light clouds	The Staff.
Murcia, Met. Obs'y	30.10	764.4	30.26	768.5	71.2	21.8	45	wnw.	4.5	2.0	.....	0	3	.....	.....	0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.48	748.7	30.35	771.0	44.6	7.0	71	e.	2.6	1.2	.....	2 cs	4 n	w.	w.	0.118	3.0	fair	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.34	745.2	30.24	768.1	57.2	14.0	87	sw.	6.3	2.8	.....	.....	4	.....	.....	0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.97	761.2	30.02	762.6	77.8	25.4	63	e.	11.0	4.9	.....	.....	k	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.23	767.9	30.33	770.5	59.7	15.4	63	n.	4.2	1.9	.....	2	0	e.	.....	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.00	763.4	30.15	765.7	74.8	23.8	90	ne.	4.3	1.9	.....	3 k	6 kn	ne.	ne.	0.098	2.5	cloudy	Enrique Gadea, Chf Eng'r
Swedish.																			
Hapsranda	30.40	772.2	30.44	773.2	28.0	— 2.2	96	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....
Umea	30.47	774.0	30.52	775.3	29.8	— 1.2	100	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....
Hernosand	30.47	773.8	30.52	775.1	32.0	0.0	100	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	.....
Stockholm	30.47	773.9	30.65	778.4	30.9	— 0.6	85	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....
Wisby	30.60	777.2	30.66	778.7	32.7	0.4	75	sw.	.....	.....	2	.....	3	.....	.....	0	0	.....	.....
Sub-series.																			
Upsala	30.55	775.9	30.63	778.1	28.8	— 1.8	96	sw.	7.2	3.2	.....	.....	10	.....	.....	0.087	2.2	.....	S. G. Fineman.
Swiss.																			
Geneva	28.85	732.9	30.32	770.0	42.3	'5.7	71	nne.	.....	.....	4	.....	9	.....	.....	0	0	covered	**The Observatory.**
Turkish.																			
Constantinople	.....	.....	30.31	769.9	38.7	3.7	88	n.	18	8.0	.....	.....	9	.....	n.	0.354	9.0	rain & snow	The Observatory.
Valona	.....	.....	30.13	765.4	53.1	11.7	.....	nw.	.....	.....	1	.....	10	.....	.....	0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.96	760.9	57.7	14.3	56	se.	.....	.....	1	.....	10 n	.....	sw.	0	0	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred L. Kingsbury.
United States.																			
Albany, New York	29.85	758.2	29.94	760.5	43	6.1	83	sw.	11	4.9	.....	.....	10s;fg	.....	.....	0	0	cloudy	J. C. Barnes.
Alpena, Michigan	29.40	746.7	30.11	764.8	13	—10.6	80	w.	22	9.8	.....	0	4 s	.....	w.	0.20	5.1	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.40	645.2	30.50	774.7	14	—10.0	53	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.58	700.5	30.62	777.7	3	—16.1	49	sw.	14	6.3	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.93	737.3	30.25	768.3	65.0	18.3	84	s.	12	5.4	.....	.....	10 ks	.....	s.	0	0	cloudy	H. C. Smyth.
Atlantic City, New Jersey	30.05	763.3	30.06	763.5	43	6.1	100	s.	12	5.4	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	Jas. M. Watson.
Augusta, Georgia	30.08	764.0	30.28	769.1	67	19.4	90	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	John Healy.
Baltimore, Maryland	30.00	762.0	30.05	763.3	61	16.1	93	sw.	15	6.7	.....	.....	10s;fg	.....	sw.	0.05	1.3	cloudy	Geo W Felger.
Barnegat, New Jersey	30.03	762.7	30.05	763.3	45.0	7.2	100	sw.	20	8.9	.....	.....	fg.	.....	.....	0.15	3.8	dense fog	G. A. Hill.
Behring Id., Behring Sea	29.54	750.3	29.56	750.8	21.0	— 6.1	.....	s.	28	12.5	.....	.....	10 n	.....	.....	0.01	0.3	cloudy	Dr. Leonard Steinegar.
Bennett, Fort, Dakota	29.02	737.1	30.75	781.0	— 8	—22.2	78	calm	0	0	.....	0	0	.....	.....	0.04	1.0	clear	A. Pritchard.
Benton, Fort, Montana	27.57	700.3	30.57	776.5	8	—13.3	58	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	S. Wheaton.
Billings, Montana	27.20	690.9	.....	.....	12	—11.1	64	w.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.09	728.7	30.67	779.0	—12	—24.4	100	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.00	762.0	30.03	762.7	44	6.7	93	w.	15	6.7	.....	.....	fg.	.....	.....	0	0	dense fog	J. T. Elker.
Boise City, Idaho	27.84	707.1	30.80	782.3	10	—12.2	91	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.76	755.9	29.92	760.0	50.0	10.0	86	sw.	12	5.4	.....	.....	fg.	.....	.....	0.07	1.8	dense fog	O. B. Cole.
Brownsville, Texas	30.23	767.8	30.28	769.1	42.0	5.6	96	n.	20	8.9	.....	.....	10 s	.....	n.	0.06	1.5	cloudy	M. McCarty.
Buffalo, New York	29.19	741.4	29.99	761.7	35.8	2.1	100	sw.	28	12.5	.....	.....	10 n	.....	sw.	0.08	2.0	light rain	W. Finn.
Buford, Fort, Dakota	28.50	723.9	30.68	779.3	—21	—29.4	100	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	F. A. Mellen.
Burlington, Vermont	29.49	749.0	29.80	756.9	43.3	6.3	91	s.	24	10.7	.....	.....	10 s	.....	s.	0.01	0.3	cloudy	D. N. Farnell.
Cairo, Illinois	30.11	764.8	30.53	775.4	25.0	— 3.9	73	n.	17	7.6	.....	.....	10 s	.....	n.	0.98	24.9	cloudy	W. H. Ray.
Cape Henry, Virginia	30.15	765.8	30.17	766.3	65	18.3	90	sw.	20	8.9	.....	0	1 ks	.....	sw.	0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.04	763 0	30.07	763.8	49.0	9.4	93	s.	16	7.2	.....	.....	fg.	.....	.....	0.07	1.8	dense fog	W. E. Smith.
Cape Mendocino, California	29.83	757.7	30.53	775.4	43.5	6.4	70	se.	26	11.6	.....	c	0	.....	.....	0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.23	767.8	30.25	768.3	71	21.7	82	se.	10	4.5	.....	0	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.66	753.4	30.53	775.4	7.0	—13.9	52	nw.	24	10.7	.....	.....	9 s	.....	w.	0.83	21.1	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.21	767.3	30.27	768.8	66	18.9	93	sw.	6	2.7	.....	0	8 ks	.....	sw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.37	746.0	30.26	768.6	64.0	17.8	93	sw.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.39	746.5	30.25	768.3	57.0	13.9	80	nw.	8	3.6	.....	.....	10 s	.....	w.	0.11	2.8	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.35	618.5	30.60	777.2	4.8	—15.1	60	w.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	E. McGovern.
Chicago, Illinois	29.66	753.4	30.40	772.1	10.9	—11.7	73	w.	11	4.9	.....	.....	9 s	.....	w.	0.88	22.4	cloudy	J. Mitchell.
Chincoteague, Virginia	30.12	765.0	30.14	765.5	47	8.3	100	s.	12	5.4	.....	.....	fg.	.....	.....	0.03	0.8	dense fog	C. F. Dickens.
Cincinnati, Ohio	29.61	752.1	30.30	769.6	38	3.3	82	w.	12	5.4	.....	.....	10 s	.....	w.	0.79	20.1	cloudy	R. B. Watkins.
Cleveland, Ohio	29.34	745.2	30.13	765.3	32	0.0	100	w.	21	9.4	.....	.....	10 s	.....	w.	0.33	8.4	cloudy	J. B. Newlin.
Coleman City, Texas	28.92	734.6	30.60	777.2	22	— 5.6	61	n.	28	12.5	.....	.....	10 s	.....	n.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.29	744.0	30.19	766.8	41	5.0	82	w.	17	7.6	.....	.....	10 s	.....	w.	0 35	8.9	threatening	D. Cuthbertson.
Concho, Fort, Texas	28.63	727.2	30.65	778.5	22.0	— 5.6	61	n.	22	9.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. McGlone.
Davenport, Iowa	29.88	758.9	30.58	776.7	3	—16.1	72	nw.	16	7.2	.....	0	0	.....	.....	0.53	13.5	clear	R. R. Martin.
Davis, Fort, Texas	25 50	647.7	30.46	773 7	17	— 8.3	46	n.	16	7.2	.....	.....	10 s	.....	n.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.89	733.8	30.70	779.8	5	—15.0	87	w.	3	1.3	.....	.....	10 s	.....	sw.	0	0	cloudy	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.72	653.3	30.64	778.2	5	—15.0	79	sw.	1	0.4		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.06	763.5	30.08	764.0	58	14.4	100	sw.	24	10.7		0	4ks;fg			0.13	3.3	fair	T. S. Townsend.
Denison, Texas	29.81	757.2	30.65	778.5	22.0	— 5.6	87	n.	12	5.4			10 s			0.11	2.8	cloudy	J. W. Byram.
Denver, Colorado	25.11	637.8	30.63	778.0	2.0	—16.7	75	calm	0	0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.74	755.4	30.70	779.8	— 5	—20.6	62	n.	14	6.3		0	0			0.02	0.5	clear	F. W. Conrad.
Detroit, Michigan	29.42	747.3	30.17	766.3	26.0	— 3.3	88	sw.	22	9.8			10 s		w.	0.23	5.8	cloudy	E. R. Brace.
Dodge City, Kansas	27.99	710 9	30.73	780.5	8	—13.3	58	nw.	9	4.0		0	0			0	0	clear	V. P. Temple.
Dubuque, Iowa	29.76	755.9	30.52	775.2	1	—17.2	42	nw.	8	3.6		0	0			0.01	0.3	clear	J. Harvey Smith.
Duluth, Minnesota	29.74	755.4	30.56	776.2	— 7.3	—21.8	70	sw.	3	1.3		0	1 s			0.21	5.3	clear	N. B. Conger.
Eagle Pass, Texas	29.74	755.4	30.58	776.7	35.0	1.7	69	n.	11	4.9			10 s			0.14	3.6	cloudy	F. Belford.
Eagle Rock, Idaho	25.81	655.6	30.71	780.0	—15	—26.1	55	n.	3	1.3		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.79	756.7	29.86	758.4	40.0	4.4	94	sw.	16	7.2			10s;fg		sw.	0.16	4.1	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27 69	703.3	30.59	777.0	11	—11.7	44	n.	16	7.2		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.64	676.6	30.52	775.2	26.2	— 3.2	88	n.	12	5.4			10 n		n.	0.01	0.3	light snow	J. O'Dowd.
Erie, Pennsylvania	29.30	744.2	30.08	764.0	37	2.8	89	sw.	18	8.0			10 n			0.24	6.1	light rain	Peter Wood.
Escanaba, Michigan	29.57	751.1	30.29	769.4	6.0	—14.4	63	nw.	11	4.9		0	4 s		nw.	0.03	0.8	fair	George Heathcote.
Fredericksburg, Texas	28.76	730.5	30.56	776.2	22	— 5.6	87	n.	16	7.2			10 n			0.10	2.5	light snow	Frank Halwegler.
Galveston, Texas	30.23	767.8	30.28	769.1	42	5.6	100	n.	52	23.2			10 n		n.	0.36	9.1	light rain	E. O'C. MacInernay.
Grand Haven, Michigan	29.54	750.3	30.25	768.3	21.0	— 6.1	84	w.	28	12.5			10 n		w.	0.68	17.3	light snow	J. E. Mueller.
Grant, Fort, Arizona	25.54	648.7	30.40	772.1	21	— 6.1	76	w.	2	0.9		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.26	768.6	30.29	769.1	56	13.3	100	sw.	12	5.4		0	fg.			0	0	clear	R. M. Crawford.
Helena, Montana	26.25	666.7	30.65	778.5	— 3	—19.4	100	calm	0	0			10 s			0	0	cloudy	N. C. Smith.
Henrietta, Texas	29.60	751.8	30.65	778.5	20	— 6.7	58	n.	20	8.9			10 s		n.	0	0	cloudy	J. P. Sherry.
Huron, Dakota	29.23	742.4	30.75	781.0	— 6.8	—21.6	61	nw.	2	0.9		0	0			0.04	1.0	clear	S. W. Glenn.
Indianapolis, Indiana	29.51	749.5	30.36	771.1	22	— 5.6	87	nw.	16	7.2			10 s		nw.	1.38	35.1	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.30	769.6	30.33	760.4	39.1	3.9	75	n.	52	23.2			10 s		n.	0.03	0.8	cloudy	I. A. Reed.
Jacksboro, Texas	29.50	749.3	30.74	780.8	20	— 6.7	56	n.	16	7.2			10 s		n.	0	0	cloudy	D. J. Carr.
Jacksonville, Florida	30.23	767.8	30.28	769.1	68	20.0	90	calm	0	0		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.98	710.7	30.66	778.7	—10	—23.3	58	calm	0	0		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.91	759.7	30.61	777.5	4.5	—15.3	72	nw.	14	6.3		0	0			0.48	12.2	clear	F. Z. Gosewisch.
Key West, Florida	30.16	766.1	30.18	766.6	74.5	23.6	90	e.	12	5.4		0	2s;k		e.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.26	768.6	30.28	769.1	61	16.1	96	sw.	10	4.5		0	0			0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.14	740.1	30.22	767.6	57	13.9	85	n.	10	4.5			10 s		sw.	0.07	1.8	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.72	754.9	30.56	776.2	— 5	—20.6	62	nw.	13	5.8		0	0			0.04	1.0	clear	S. C. Emery.
Leavenworth, Kansas	29.83	757.7	30.78	781.8	4	—15.6	72	nw.	16	7.2		0	0			0.02	0.5	clear	A. W. Browne.
Lewiston, Idaho	29.93	760.2	30.80	782.3	13.5	—10.3	71	calm	0	0		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	30.17	766.3	30.50	774.7	29	— 1.7	88	nw.	18	8.0			10 s		w.	1.42	36.1	cloudy	W. U. Simons.
Los Angeles, California	30.15	765.8	30.55	776.0	34	1.1	72	ne.	6	2.7		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.77	756.1	30.36	771.1	29	— 1.7	77	w.	18	8.0			10 s		w.	0.61	15.5	cloudy	L. M Dey.
Lynchburg, Virginia	29.42	747.3	30.14	765.5	64	17.8	84	s.	12	5.4		0	8 ks		sw.	0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.47	748.5	30.17	766.3	7.0	—13.9	76	nw.	26	11.6		5 k	0		nw.	0.10	2.5	fair	F. R. Day.
Macon, Fort, North Carolina	30.26	768.6	30.27	768.8	59.0	15.0	100	sw.	10	4.5		0	0			0	0	clear	William Daly.
Madison, Wisconsin	29.34	745.2	30.43	772.9	2	—16.7	75	nw.	20	8.9		0	0			0.05	1.3	clear	C. A. Shaw.
Maginnis, Fort, Montana	25 86	656.8	30.40	772.1	18	— 7.8	58	nw.	12	5.4		10 k	0		nw.	0	0	cloudy	F. Burke.
McKavett, Fort, Texas																			J. E. Thatcher.
Marquette, Michigan	29.44	747.8	30.22	767.6	5	—15.0	76	nw.	11	4.9		4 k	0		nw.	0.26	6.6	fair	J. Gilligan.
Memphis, Tennessee	30.10	764.5	30.45	773.4	28	— 2.2	100	nw.	14	6.3			10 s		nw.	0.72	18.3	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.57	751.1	30.37	771.4	6	—14.4	76	nw.	23	10.3		0	1 ks		nw	0.35	8.9	clear	W. Line.
Missoula, Fort, Montana	27.26	692.4	30.69	779.5	6	—14.4	76	sw.	2	0.9		0	5 s			0	0	fair	I. H. Young.
Mobile, Alabama	30.10	764.5	30.14	765.5	70	21.1	93	s.	8	3.6			10s;fg		s.	0.12	3.0	cloudy	C. A. Read.
Montgomery, Alabama	29.91	759.7	30.15	765.8	69	20.6	91	se.	5	2.2		3ck;hs	6 ks		w.	s.;w	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.55	750.6	30.65	778.5	—20	—28.9	100	w	10	4.5			10 s			0.14	3.6	cloudy	H. Bessant.
Morgantown, W. Virginia	29.12	739.6	30.19	766.8	57.0	13.9	80	sw.	4	1.8			10 n			inap	inap.	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.56	598.4	30.18	766.6	42.0	5.6	100	w.	78	34.8			fg.		w.	0.07	1.8	dense fog	S. W. Beall.
Nashville, Tennessee	29.73	755.1	30.34	770.6	42.0	5.6	88	nw.	16	7.2			10 n		nw.	1.55	39.4	light rain	L. N. Jesunofsky.
New Haven, Connecticut	29.91	759.7	30.03	762 7	38	3.3	100	se.	3	1.3			10n;fg			0.12	3.0	light rain	J. H. Sherman.
New London, Connecticut	29.99	761.7	30.04	763.0	38	3.3	86	calm	0	0			10n;fg			0.40	10.2	light rain	J. G. Lynch.
New Orleans, Louisiana	30.05	763.3	30.11	764.8	72.5	22.5	86	s.	4	1.8			10 s		s.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	29.96	761.0	30.01	762.2	41.0	5.0	100	sw.	7	3.1			fg.			0.06	1.5	dense fog	W. McGillivray.
New York, New York	29.86	758.4	30.05	763.3	41	5.0	100	calm	0	0			fg.			0.11	2.8	dense fog	J. B. Merrill.
Norfolk, Virginia	30.17	766.3	30.20	767.1	62	16.7	93	sw.	9	4.0		0	3s;fg		sw.	inap.	inap.	clear	Wm. Davis.
North Platte, Nebraska	27.63	701.8	30.73	780 5	— 4.4	—20.2	77	W.	6	2.7		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.53	775.4	30.57	776.5	33.0	0.6	88	calm	0	0			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	29.54	750.3	30.81	782.6	— 2.8	—19.3	62	nw.	10	4.5		0	0			0.01	0.3	clear	A. Pollak.
Ooglaamie, Alaska	30.25	768.3	30.27	768.8	— 9.5	—23.1	91	e.	4	1.8			10 n			inap.	inap.	light snow	P. H. Ray.
Oswego, New York	29.48	748.8	29.84	757.9	49.0	9.4	77	s.	10	4.5			10 n		sw.	0.05	1.3	light rain	J. G. Linsley.
Palestine, Texas	29.95	760.7	30.53	775.4	28.0	— 2.2	77	n.	17	7.6		8 cs	0		nw.	1.07	27.2	cloudy	L. M. Pindell.
Pensacola, Florida	30.14	765.5	30.17	766.3	71.0	21.7	100	se.	6	2.7		0	8 s		s.	0.01	0.3	cloudy	M. McGauran.
Philadelphia, Pa	29.92	760.0	30.03	762.7	48	8.9	100	calm	0	0			10n;fg			0.04	1.0	light rain	E. M. Mattison.
Pike's Peak, Colorado	17.67	448.8	30.39	771.9	—15	—26.1	100	ne.			2	0	0			0	0	clear	H. Hall.
Pioche, Nevada	24.44	620.8	30.00	777.2	10	—12.2	66	nw.	6	2.7		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.24	742.7	30.10	764.5	54.0	12.2	90	sw.	8	3.0			10 n		sw.	0.03	0.8	light rain	W. A. Reid.
Poplar River, Montana	28.34	719.8	30.69	779.5				nw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.13	765.3	30.14	765.5	64.6	18.1	100	se.	6	2.7			fg.			0	0	dense fog	H. B. Boyer.
Port Huron, Michigan	29.43	747.5	30.16	766.1	26.0	— 3.3	82	w.	23	10.3			10 s			0.98	24.9	cloudy	W. O. Bailey.
Portland, Maine	29.82	757.4	29.87	758.7	39.0	3.9	89	sw	8	3.0			fg.			0.05	1.3	dense fog	W. W. Eichelberger
Portland, Oregon	30.52	775 2	30.59	777.0	31.0	— 0.6	74	calm	0	0			10 s		e.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.																			F. S. Coburn.
Prescott, Arizona	25.11	637.8	30.47	773.9	9.0	—12.8	66	n.	3	1.3		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.96	761.0	30.00	762.0	43	6.1	100	sw.	13	5.8			fg.			0.07	1.8	dense fog	P. T. Jenkins.
Punta Rassa, Florida	30.22	767.6	30.23	767.8	67	19.4	87	e.	7	3.1		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	30.31	769.9	30.68	779.3	31	— 0.6	78	n.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.21	741.9	29.92	760.0	46	7.8	87	w.	25	11.2			10 n			inap.	inap.	light rain	E. W. McGann
Roseburg, Oregon	29.99	761.7	30.56	776.2	31	— 0.6	83	e.	1	0.4			10 s		w.	0	0	cloudy	J. J. Nanry.
Sacramento, California	30.66	777.2	30.68	779.3	35.8	2.1	78	n.	3	1.3		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.97	761.2	30.61	777.5	12.7	—10.7	85	nw.	20	8.9		0	3 s		nw.	1.06	26.9	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.41	772.4	30.45	773.4	10	—12.2	100	se.	4	1.8		0	7 s		se.	0	0	fair	A. P. Leavitt
St. Paul, Minnesota	29.65	753.1	30.59	777.0	— 4.5	—20.3	81	w.	7	3.1		0	0			0.08	2.0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.59	751.6	30.50	770.2	—19	—28.3	100	nw.	1	0.4		0	0			0	0	clear	O. B Dilley.
Salt Lake City, Utah	26.22	666.0	30.78	781.8	11	—11.7	64	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.77	756.1	30.49	774.4	32.0	0.0	66	n.	16	7.2			10 s		n.	inap.	inap.	cloudy	T. J. Kenan.
San Diego, California	30.41	772.4	30.48	774.2	41.0	5.0	40	e	3	1.3		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.47	748.5	30.19	766.8	32.3	0.2	88	w.	24	10.7			10 s		w.	0.33	8.4	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.99	761.7	30.02	762.5	39.0	3.9	100	sw.	4	1.8			fg			0.07	1.8	dense fog	B. A. Blundon.
San Francisco, California	30.57	776.5	30.64	778.2	41.5	5.3	82	n.	6	2.7		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.45	595.6	30.53	775.4	9	—12.8	55	n.	10	4.5		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.19	766.8	30.28	769.1	66	18.9	84	s.	5	2.2		2 ck	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26 71	678.4	30.50	776.2	21	— 6.1	61	sw.	14	6.3		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.22	767.6	30.47	773.9	31	— 0.6	77	nw.	15	6.7			10 n		nw.	1.74	44.2	light rain	E. N. Meekins.
Sill, Fort, Indian Territory	29.37	746 0	30.08	779.3	17.5	— 8.1	72	n.	21	9.4		0	2 s		n.	0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.42	620.3	30.28	769.1	19.0	- 7.2	61	calm	0	0		0	0			0	0	clear	N. D. Lane.
Sitka, Alaska	29.99	761.0	30.03	762 7	38.0	3.7	63	e.	6	2.7			10 s		e.	0.27	6.9	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	30.12	765.0	30.62	777.7	19.0	— 7.2	84	n.	14	6.3			10 s			0.13	3.3	cloudy	J. B. Campbell.
Smithville, North Carolina	30.26	768.6	30.30	769.0	61	16.1	100	sw.	12	5.4		0	0			inap.	inap.	clear	O. Parker.

STATIONS.	Barometer: Corrected for instrumental error and for temperature.		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.66	726.4	30.73	780.5	14.2	— 9.9	82	ne.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	H. Clifford.
Springfield, Illinois	29.85	758.2	30.58	776.7	11	—11.7	80	nw.	16	7.2	.....	0	7 8	.....	nw.	0.97	24.6	fair	T. B. Jennings
Springfield, Missouri	29.11	739.4	30.62	777.7	9.5	—12.5	66	nw.	17	7.6	.....	3 c	4 8	sw.	nw.	0.79	20.1	fair	J. H. Bryce.
Starkville, Miss	29.81	757.2	30.31	769.9	45	7.2	86	n.	18	8.0	.....	.....	10 8	.....	n.	1.00	25.4	cloudy	C. Dill.
Stevenson, Fort, Dakota	28.66	728.0	30.68	779.3	—20	—28.9	100	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Stockton, Fort, Texas	27.47	697.7	30.60	777.2	25	— 3.9	88	n.	13	5.8	.....	.....	10 8	.....	nw.	0	0	cloudy	A. J. Warren.
Thatcher's Island, Mass	29.88	758.9	29.94	760.5	41.6	5.9	100	sw.	14	6.3	.....	.....	fg.	.....	.....	0	0	dense fog	G. Liebmann.
Thomas, Camp, Arizona	27.72	704.1	30.55	776.0	30	— 1.1	70	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.45	748 0	30.19	766.8	33	0.6	78	nw.	15	6.7	.....	.....	10 8	.....	nw.	0.26	6.6	cloudy	A. Buell.
Tucson, Arizona	27.98	710.7	30.46	773.7	31	— 0.6	71	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	J. L. Whiteside
Umatilla, Oregon	30.48	774.2	30.86	783.8	5	—15.0	76	calm	0	0	.....	0	0 8	.....	.....	0	0	fair	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	26.2	— 3.2	67	n.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	30.06	763.5	30.33	770.4	43.7	6.5	81	nw.	15	6.7	.....	.....	10 n	.....	nw.	0.01	0.3	light rain	James Kenealy.
Visalia, California	30.24	768.1	30.62	777.7	30.8	— 0.7	89	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	O. D. Stewart
Washakie, Fort, Wyoming.	24.84	630.9	30.60	777.2	—10.2	—23.4	86	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	29.94	760.5	30.06	763.5	59.6	15.3	100	sw.	8	3.6	.....	.....	10 ks	.....	sw.	inap.	inap.	cloudy	B. M. Purssell.
West Las Animas, Colorado	26 52	673.6	30.64	778.2	— 1	—18.3	72	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.41	747.0	30.04	763.0	40.8	4.9	92	nw.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	B. F. Hough.
Wilmington, N. Carolina	30.24	768.1	30.30	769.6	65	18.3	93	sw.	5	2.2	.....	0	0	.....	.....	inap.	inap.	clear	Samuel A. Haney.
Winnemucca, Nevada	26.18	665.0	30.70	779.8	10.5	—11.9	80	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	29.34	745.2	30.76	781.3	1	—17.2	73	nw.	7	3.1	.....	0	0	.....	.....	0 04	1.0	clear	J. H. Atfield.
Yuma, Arizona	30.43	772.9	30.58	776.7	43.0	6.1	36	ne.	13	5.8	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.02	559.3	.....	.....	53.0	11.7	71	n.	4	1.8	.....	0	4k s	.....	e.	0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.09	764.3	30.10	764.5	73	22.8	72	n.	1	0.4	.....	0 c	0	.....	.....	0	0	fair	Robert Johnston.
Paramaribo, S. A.	30.01	762.2	30.01	762.2	78	25.6	86	n.	3	1.3	.....	1 ck	5 k	e.	e.	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.32	744.7	29.88	758.9	78	25.6	89	calm	.....	.....	0	4 c	5 k	s.	n.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75.2	24.0	90	ne.	.....	.....	3	0	0	.....	.....	0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.96	761.0	30.02	762.5	29	— 1.7	77	n.	.....	.....	3	8 cs	0	.....	.....	0	0	cloudy	W. J. Fisher.
St. Thomas, W. I.	30.05	763.3	30.18	766.6	74	23.3	76	e.	.....	.....	.....	.....	8 kn	.....	e.	0.68	2.0	cloudy	Aug. Wallace.
Havana, Cuba	30.06	763.5	30.13	765.3	69.7	20.9	82	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
York Factory, B. A	29.99	761 7	30.06	763.5	—26.0	—33.3	.....	nw.	10	4.5	.....	2 c	2 8	nw.	nw.	0	0	fair	Fortesque & Wood.

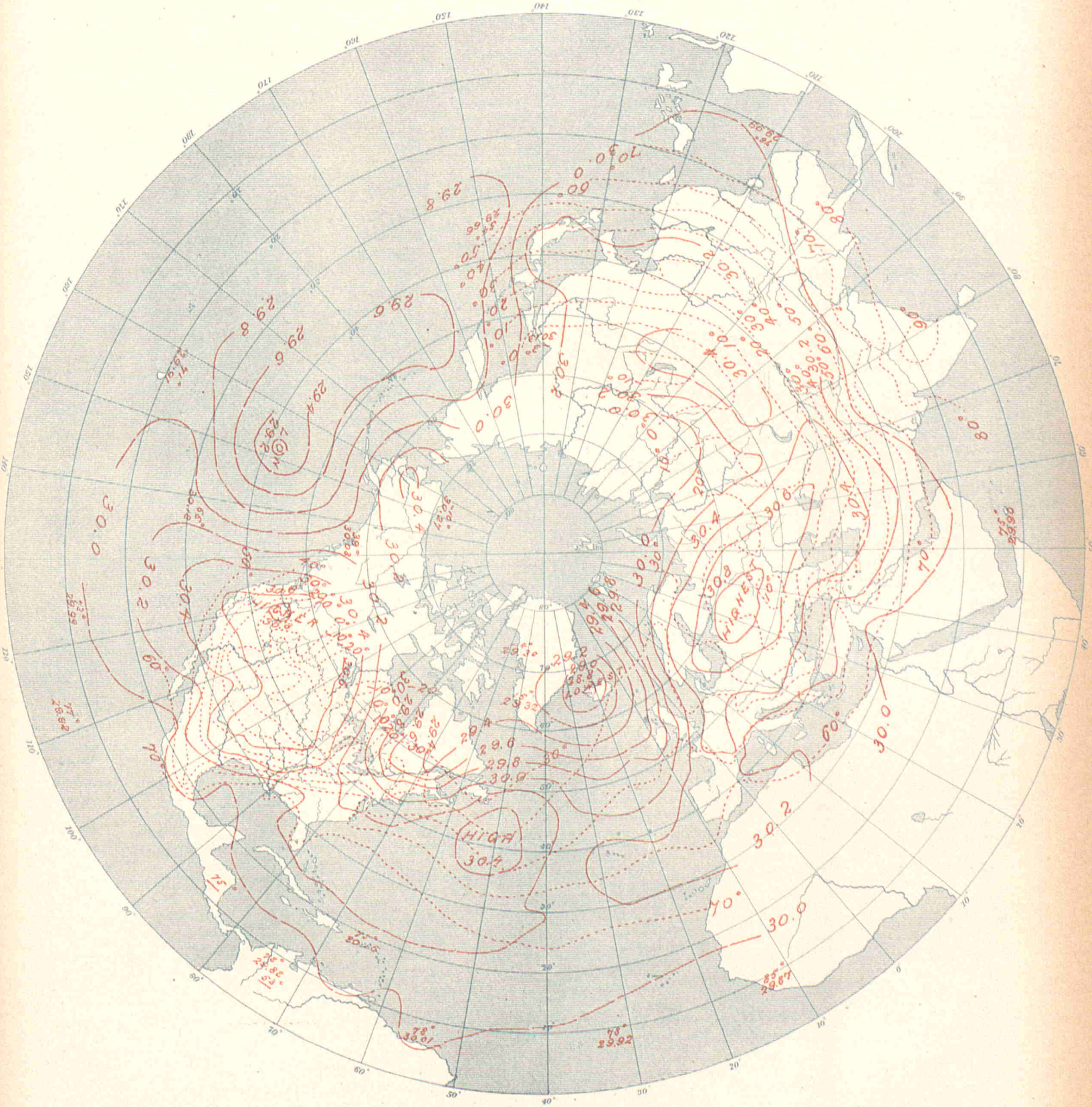
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell. Character.	Sea-swell. Direction from	WEATHER.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. Dock-Yard, Bermuda, W. I.	30.30	769.6	67	19.4	87	wnw.	.....	.....	1–2	.....	5	wnw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Dido, N. 30° 47′, W. 64° 52′	30.38	771.6	70	21.1	.....	wsw.	.....	.....	1	.....	3	wnw.	.....	.....	.....	1	nnw.	d. clouds.
H. M. S. Fawn, N. 25° 20′, W. 33° 02′	30.12	765.0	70	21.1	61	ene.	.....	.....	2–3	.....	5	.....	.....	.....	.....	2	wnw.	d. clouds.
H. M. S. Iron Duke, N. 42° 30′, W. 9° 20′	30.32	770.1	58	14.4	76	s.	.....	.....	4	.....	6	sse.	.....	.....	.....	3	wnw.	d. clouds.
H. M. S. Monarch, Port Said, Egypt	29.95	760.7	68	20.0	69	nw.	.....	.....	2	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Minotaur, Vigo Bay, Spain	30.28	769.1	57	13.9	65	se.	.....	.....	2	.....	4	wnw.	.....	.....	.....	6	wsw.	d. clouds.
H. M. S. Tyne, N 10° 36′, W 25° 42′	29.92	760.0	73	22.8	85	nne.	.....	.....	3	.....	1	calm	.....	.....	.....	3	nne.	blue sky.
H. M. Frigate Vanadis, N. 39° 09′, E. 19° 57′	30.11	764.9	52.5	11.4	59	se.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	overcast.
U. S. Navy Yard, Portsmouth, N. H.	29.89	759.2	38	3.3	?	se.	5	2.2	.....	.....	10	.....	.....	0.1	3.	.....	.....	foggy.
U. S. S. Alliance, Havana, Cuba, W. I.	30.15	765.8	72	22.2	100	ene.	.....	.....	1–2	.....	0	.....	.....	0	0	sm'h	cle.r.	cloudy.
U. S. S. Kearsarge, Cartagena, U. S. C.	29.83	757.7	76	24.4	90	ne.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Lancaster, N. 49° 45′, W. 4° 05′	30.17	766.3	51	10.6	93	s.	.....	.....	6	.....	10	.....	w.	.....	.....	sm'h	s.	cloudy.
U. S. S. Nipsic, N. 28° 10′ W. 70° 07′	30.39	771.9	71	21.7	75	ene.	.....	.....	4	.....	5	.....	ne.	.....	.....	sm'h	.....	fair.
U. S. S. Quinnebaug, N. 35° 58′ W. 5° 56′	30.30	769.6	65	18.3	78	s.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. St. Louis, League Island, Pa.	30.06	763.5	38	3.3	100	ne.	2	0.9	.....	.....	10	.....	.....	0.06	1.5	.....	.....	foggy.
U. S. S. Swatara, Hampton Roads, Va*	30.26	768.6	57	13.9	87	sw.	.....	.....	5	.....	2	.....	sw.	.....	.....	.....	.....	clear.
U. S. S. Tennessee, N. 13° 46′, W 72° 30′*	29.96	761.0	79	26.1	90	e.	26	11.6	.....	.....	2	.....	e.	0.03	0.8	mod.	ene.	clear.
U. S. S. Vandalia, N. 16° 56′, W. 71° 28′.*	30.13	765.3	77	25.0	86	ene.	.....	.....	6	.....	5	.....	ene.	.....	.....	mod.	ene.	fair.
U. S. S. Yantic, N. 24° 20′, W. 94° 38′	30.09	764.3	75	23.9	?	n.	.....	.....	1	.....	10	.....	.....	.....	.....	long	ese.	overcast.
S. S Illinois, N. 48° 12′, W. 31° 49′	29.85	758.2	44	6.7	92	wsw.	.....	.....	5	.....	5	.....	wsw.	.....	.....	long	w.	fair.
S. S. Indiana, Liverpool, Eng†	30.05	763.3	42	5.6	91	s.	.....	.....	4	.....	6	.....	s.	0	0	.....	.....	cloudy.
S. S. Lord Clive, N. 49° 57′, W. 2° 41′	.....	.....	.....	.....	.....	w.	.....	.....	5	.....	7	.....	w.	.....	.....	mod.	w.	squally.
S. S. Lord Gough, N. 50° 32′, W. 27° 42′	29.69	754.1	45	7.2	.....	sw.	.....	.....	4	.....	5f	.....	wsw.	shr's	shr's	mod.	w.	cloudy?
S. S. Ohio, N. 45° 35′, W. 39° 37′†	30.14	765.5	46	7 8	92	wnw.	.....	.....	4	.....	9	.....	w.	.....	.....	mod.	w.	cloudy.
S. S. Pennsylvania, N. 50° 59′, W. 17° 54′†	29.73	755.1	40	4.4	?	sw.	.....	.....	4	.....	8	.....	sw.	5 h'r	5 h'r	hv'y	nw.	fine.
S. S. Circassian, N. 37° 00′, W. 75° 15′ *	30.17	766.3	50	10.0	100	ssw.	.....	.....	3	.....	6	.....	w.	0	0	2	s.	foggy.
S. S. Nova Scotian, N. 46° 53′, W. 41° 33′..	30.30	769.6	39	3.9	.....	nw.	.....	.....	4	.....	8	.....	nw.	.....	.....	mod.	nw.	fair.
S. S. Manitoban, N. 43° 39′, W. 69° 59′	29.91	759.7	40	4.4	.....	s.	.....	.....	4	.....	10	.....	.....	0	0	sm'h	.....	cloudy.
S. S. Jason, N. 48° 26′ W. 22° 46′	.....	.....	50.0	10.0	.....	nw.	.....	.....	6	.....	6 k	.....	.....	.....	.....	6	wsw.	gloomy.
S. S. Stella, N. 49° 19′, W. 11° 22′	29.80	756.8	51.8	11	.....	wnw.	.....	.....	2	.....	7	.....	wsw.	5 h'r	5 h'r	6	wsw.	drizzling.
S. S. Alvo, N. 34° 24′, W. 73° 52′	30.32	770.1	70	21.1	.....	ssw.	.....	.....	4–5	.....	7 k	.....	sw.	0	0	long	sw.	cloudy.
S. S. Ailsa, N. 9° 35′, W. 81° 16′†	30.02	762.5	79	26.1	95	ene.	.....	.....	5	.....	10	.....	ene.	0	0	long	ene.	cloudy.
S. S. Assyria, N. 33° 26′, W. 57° 41′	30.36	771.1	62	16.7	94	ene.	.....	.....	4	.....	5	.....	ene.	.....	.....	sm'h	.....	fine.
S. S. Bolivia, N. 48° 28′, W. 31° 46′	29.96	761.0	44	6.7	.....	wnw.	.....	.....	4	.....	.....	.....	wnw.	snow	snow	r'gh	wnw.	snow & hail.
S. S. Landaff City, New York, N. Y†	30.10	764.5	.....	.....	.....	sw.	.....	.....	3	.....	10	.....	sw.	0	0	.....	.....	.....
S. S. Gallia, N. 41° 53′, W. 53° 54′	30.51	774.9	46	7.8	69	ese.	.....	.....	4	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Marathon, N. 41° 25′ W. 9° 52′	30.35	770.9	55	12.8	.....	ssw.	.....	.....	2	.....	2	.....	ssw.	0	0	sm'h	nw.	fine.
S. S. Pavonia, N. 40° 29′, W. 72° 20′	29.97	701.2	49	9.4	93	ssw.	.....	.....	4	.....	fg.	.....	w.	0	0	sm'h	sw.	dense fog.
S. S. Pereire, N. 44° 09′, W. 50° 23 ′†	30.52	775.3	28.4	—2	.....	wnw.	.....	.....	2	.....	2	.....	sw.	0	0	sm'h	.....	clear.
S. S. Ville de Marseilles, N. 19° 12′, W. 76° 07′ †	30.20	767.1	76	24.4	.....	ne.	.....	.....	6	.....	0	.....	.....	0	0	long	ne.	clear.
S. S. Abyssinia, N. 42° 19′, W. 57° 13′	30.37	771.4	43	6.1	?	sse.	.....	.....	5	.....	9	.....	w.	0	0	mod.	nw.	cloudy.
S. S. Wyoming, N. 48° 24′, W. 34° 00′	.....	.....	43	6.1	.....	nnw.	.....	.....	6	.....	7	.....	w.	4 h'r	4 h'r	r'gh	w.	squally.
S. S. Bohemia, N. 44° 40′ W. 43° 00′ †	30.22	767.6	.....	.....	.....	w.	.....	.....	5–7	.....	10 k	.....	nw.	5 h'r	6 h'r	long	w.	squally.
S. S. Silesia, Hudson river, N. Y †	30.27	768.8	.....	.....	.....	s.	.....	.....	6	.....	10	.....	.....	0	0	4	sw.	foggy.
S. S. Vandalia, N. 57° 17′, W. 18° 10′	29.38	746.2	45.0	7.2	97	s.	.....	.....	6–7	.....	5	.....	ssw.	.....	.....	8	s.	squally.
S. S. Bulgarian, N. 45° 14′, W. 49° 54′ *.	30.48	774.2	.....	.....	.....	wsw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	.....
S. S. Archimedes, N. 25° 55′, W. 19° 22′	30.10	764.5	.....	.....	.....	ene.	.....	.....	4	.....	0	.....	.....	0	0	mod.	ene.	fair.
S. S. Colorado, Galveston Bar, Texas†	30.30	769.6	37	2.8	.....	nnw.	.....	.....	9	.....	10	.....	nnw.	12 h'r	12 h'r	high	n.	cloudy.
S. S. Rio Grande, N. 27° 42′, W. 89° 46′†	30.07	763.8	80	26.7	.....	ese.	.....	.....	2	.....	2	.....	ese.	0	0	mod.	.....	.....
S. S. Chalmette, N. 28° 59′, W. 89° 09′†	30.10	764.5	76	24.4	.....	se.	.....	.....	3	.....	.....	.....	.....	0	0	sm'h	.....	foggy.
S. S. Lone Star, N. 38° 25′ W. 74° 20′†	30.20	767.1	55	12.8	.....	s.	.....	.....	3	.....	fg.	.....	.....	e	0	small	s.	dense fog.
S. S. Alleghany, Chesapeake Bay†	30.20	767.1	53	11.7	.....	sw.	.....	.....	2	.....	8	.....	w.	0	0	.....	.....	foggy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																	
S. S. Archimede, N. 34° 41′, W. 62° 23′†	30.37	771.4	74	23.3	.....	ene.	.....	.....	1	.....	2	.....	W		o	o	mod.	wnw.	clear.
S. S. Picqua, N. 38° 30′ W. 0° 25′	.....	.....	58	14.4	.....	calm	.....	.....	0	.....	0	.....	.....		o	o	.....	.....	clear.
S. S. City of Merida, N. 18° 38′, W. 92° 45′ †	29.95	760.7	82	27.8	.....	ene.	.....	.....	3	.....	2	.....	ne.		o	o	light	ne.	fine.
S. S. City of Washington, N. 19° 53′ W. 90° 48′ †	29.91	759.7	78	25.6	.....	e.	.....	.....	5	.....	8	.....	e.		o	o	sm'h	.....	fine.
S. S. Santiago, N. 29° 34′, W. 74° 00′	30.30	769.6	76	24.4	.....	e.	.....	.....	2	.....	2	.....	e.	1 h'r	1 h'r		.....	.....	fine.
S. S. Denmark, N. 49° 19′, W 15° 47′†	29.87	758.7	48	8.9	.....	wsw.	.....	.....	6	.....	5?	.....	w.	sq'lls	sq'lls	long	w.	clear.?
S. S. England N. 45° 54′, W. 44° 53′	30.34	770.6	.....	.....	.....	wnw.	.....	.....	4	.....	10	.....	nw.	sq'll's	sq'll's	mod.	w.	overcast.
S. S. Erin, N. 41° 04′, W. 64° 14′	30.21	767.3	50	10.0	.....	wsw.	.....	.....	0	.....	7	.....	sw.	o	o	sm'h	sw.	hazy.
S. S. Helvetia, N. 51° 06′ W. 18° 00′	29.74	755.4	44	6.7	.....	wsw.	.....	.....	5	.....	10	.....	sw.	1 h'r	1 h'r	long	w.	snowing.
S. S. The Queen, N. 47° 06′, W. 39° 26′	30.14	765.5	42	5.6	.....	wnw.	.....	.....	6	.....	10	.....	wnw.	sh'rs	sh'rs	h'vy	nw.	cloudy.
S. S. Braunschweig, N. 46° 13′, W. 7° 27′	30.16	766.1	58.0	14.4	88	ssw.	.....	.....	4	.....	2?	.....	sw.	o	o	light	var.	cloudy?
S. S. Donau, N. 44° 33′, W. 46° 58′	30.52	775.2	.....	.....	.....	wnw.	.....	.....	4	.....	0	.....	.....	7 h'r	7 h'r	mod.	nw.	clear.
S. S. Weser, N. 49° 29′, W. 21° 35′	29.84	757.9	.....	.....	.....	w.	.....	.....	4	.....	8	.....	wnw.	5 h'r	5 h'r	h'vy	wnw.	cloudy.
S. S. Muriel, off Tobago, Windward Islands, W. I.*	29.98	761.5	79	26.1	.....	ene.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Belgenland, Antwerp, Belgium *†	30.52	775.2	43	6.1	83	n.	.....	.....	3	.....	4	.....	ne.	o	o	.....	.....	fair.
S. S. Nederland, N. 43° 29′ W. 47° 42′	.....	.....	35	1.7	70	wnw.	.....	.....	4	.....	0	.....	.....	o	o	sm'h	wnw.	clear.
S. S. Rhynland, N. 49° 15′, W. 29° 00′	29.84	757.9	42	5.6	91	wnw.	.....	.....	7	.....	4	.....	wnw.	2 h'r	2 h'r	high	w.	squally.
S. S. Pennland, Antwerp, Belgium	30.41	772.4	41.8	5.3	?	var.	.....	.....	1	.....	2	.....	s.	4 h'r	4 h'r	.....	.....	fine
S. S. Switzerland, N. 48° 17′, W. 31° 48′†	29.93	760.2	.....	.....	.....	w.	.....	.....	4	.....	5	.....	w.	4 h'r	4 h'r	long	w.	fair.
S. S. Waesland, Jersey City, N. J	30.08	764.0	42	5.6	.....	ne.	.....	.....	3	.....	10	.....	ne.	0.33	8.4	.....	.....	dense fog.
S. S. Zeeland, N. 49° 54′, W. 12° 35′*†	29.80	756.9	48	8.9	.....	wsw.	.....	.....	5	.....	2?	.....	wsw.	hail	hail	long	w.	cloudy?
S. S. P. Caland, N. 45° 45′, W. 40° 16′	30.32	770.1	42.8	6.0	94	w.	.....	.....	5	.....	.....	.....	w.	.....	.....	7	wnw.	
S. S. Rotterdam, N. 44° 58′, W. 43° 46′*	30.38	771.7	37.6	3.1	86	n.	.....	.....	4	.....	9	.....	n.	o	o	6	nnw.	cloudy.
S. S. Zaandam, N. 42° 00′, W. 60° 54′	30.27	768.8	58.6	14.8	78	s.	.....	.....	4	2 c	0	sw.	.....	o	o	3	sw.	fine.
S. S. Caracas, Puerto Cabello, Venezuela†	30.03	762.7	77	25.0	86	ene.	.....	.....	3	.....	5	.....	ene.	o	o	.....	.....	hazy.
S. S. Claudius, N. 18° —′, W. 86° 20′†	30.13	765.3	79.0	26.1	95	e.	.....	.....	4	.....	3	.....	e.	o	o	short	e.	fair
S. S. Valencia, N. 31° 19′, W. 71° 35′ †	30.40	773.7	74	23.3	76	calm	.....	.....	0	.....	1	.....	n.	o	o	sm'h	.....	fine.
S. S. State of Florida, N. 52° 57′, W. 22° 03′	.....	.....	44	6.7	.....	sw.	.....	.....	6	.....	7?	.....	sw.	8 h'r	8 h'r	h'vy	sw.	clear?
S. S. Lepanto, N 53° 33′, E. 0° 12′	.....	.....	40	4.4	.....	ssw.	.....	.....	4	.....	3	.....	ssw.	o	o	mod.	s.	clear.
S. S. Marengo, N. 41° 02′, W. 66° 43′†	30.05	763.3	.....	.....	.....	e.	.....	.....	4	.....	10	.....	ese.	6 h'r	6 h'r	mod.	s.	raining.
S. S. Salerno, Hull, Eng†	30.32	770.1	43	6.1	.....	sw.	.....	.....	6	.....	8	.....	sw.	1 h'r	1 h'r	r'gh	se.	fine.
S. S. Toronto, N. 51° 04′, W. 12° 00′ *	29.96	761.0	42	5.6	.....	w.	.....	.....	5	.....	3	.....	nw.	2 h'r	2 h'r	h'vy	.....	fair.
S. S. Surrey, Sandy Hook, N. J†	30.04	763.0	29	— 1.7	.....	e.	.....	.....	3	.....	.....	.....	.....	.....	.....	sm'h	.....	cloudy.
S. S. Olbers, N. 38° 11′, W. 9° 38′*†	30.20	767.1	59	15.0	.....	ne.	.....	.....	3	.....	4	.....	nnw.	o	o	mod.	nnw.	fine.
S. S. Plantyn, N. 44° 35′, W. 46° 58′	30.39	771.9	.....	.....	.....	.....	.....	.....	7	.....	6	.....	w.	3 h'r	3 h'r	long	w.	cloudy.
S. S. Catherine Whiting, Delaware Bay†	30.11	764.8	64	17.8	.....	sw.	.....	.....	1	.....	.....	.....	.....	o	o	.....	.....	foggy.
S. S. Norman, N. 39° 44′, W. 75° 12′*†	30.10	764.5	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	ne.	o	o	.....	.....	
S. S. Saxon, Boston, Mass†	29.94	760.5	.....	.....	.....	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	dense fog.
S. S. Adriatic, N. 40° 47′, W. 62° 13′ †	30.35	770.9	53	11.7	.....	s.	.....	.....	4	.....	3	.....	s.	2 h'r	2 h'r	mod.	s.	dense fog.
S. S. Britannic, N. 51° 06′, W. 19° 18′ †	29.72	754.9	42	5.6	100	wnw.	.....	.....	3	.....	4	.....	sw.	2 h'r	2 h'r	cl'd	sw.	fair.
S. S Celtic, N. 43° 26′, W. 53° 16′†	30.53	775.4	34	1.1	.....	s.	.....	.....	3	.....	0	.....	.....	o	o	.....	.....	fair.
S. S. Republic, N. 50° 05′, W. 23° 28′†	29.84	757.9	46	7.8	84	w.	.....	.....	6	.....	8	.....	w.	.....	.....	5	wsw.	fine.
S. S. Iowa, N. 42° 55′, W. 61° 54′*†	30.27	768.8	40	4.4	.....	ssw.	.....	.....	4	.....	10	.....	ssw.	6 h'r	6 h'r	sm'h	ssw.	hailing.
S. S. Auckland, N. 7° 18′, W. 32° 50′	29.92	760.0	78	25.6	69	nne.	.....	.....	4	.....	4	.....	.....	.....	.....	.....	.....	hazy.
S. S. Chamois, N. 24° 00′, W. 45° 48′	30.22	767.6	70.5	21.4	73	sse.	.....	.....	1	.....	7	.....	.....	.....	.....	.....	.....	blue sky.
Bk. Commewyne, N. 47° 38′, W. 13° 26′*	29.89	759.2	50.0	10.0	79	wsw.	.....	.....	5	.....	8	.....	.....	.....	.....	.....	.....	showery.
S S. City of Agra, N. 30° 22′, W. 43° 06′	30.04	763.0	66	18.9	68	n.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Ptolmey, N. 12° 10′, W. 51° 05′	30.01	762.2	76.2	24.6	86	ne.	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Abbie Clifford, Cardenas, Cuba, W. I†	30.13	765.3	72	22.2	.....	e.	.....	.....	1	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Aquidneck, N. 28° 33′, W. 40° 14′ *†	30.20	767.1	.....	.....	.....	var.	.....	.....	.....	.....	.....	.....	e.	o	o	.....	.....	cloudy.
Bg. Alcira, Maracaybo, Venezula, S. A	29.96	761.0	82	27.8	.....	ne.	.....	.....	1	.....	.....	.....	sw.	o	o	light	n.	clear.
Schr. Anna A. Holton, Tampico Mexico†	30.05	763.3	74	23.3	.....	n.	.....	.....	9	.....	3	.....	ne.	o	o	.....	.....	clear
Schr. Annie R. Lewis, St. Pierre, Martinique, W. I†	30.10	766.1	80	26.7	.....	nne.	.....	.....	1	.....	10	.....	n.	o	o	sm'h	.....	cloudy.
Schr. Anna Thormann, N. 20° 20′, W. 39° 14′*	30.13	765.4	71.6	22.0	74	e.	.....	.....	5	.....	5?	.....	ene.	3 h'r	3 h'r	.....	.....	clear.?
Bk Aureol., Swansea, Wales	.....	.....	61	16.1	.....	s.	.....	.....	5	.....	4 k	.....	e.	sh'rs	sh'rs	r'gh	ne.	cloudy
Bk. Achille F, Queenstown, Ireland†	29.81	757.2	51	10.6	93	wsw.	.....	.....	4	.....	10	.....	sw.	4 h'r	4 h'r	.....	.....	overcast.
Bg. Annie R. Storer, N. 10° 40′, W. 53° 25′	.....	.....	.....	.....	.....	ene.	.....	.....	5	.....	5	.....	w.	o	o	sm'h	.....	
S. Armenia, N. 2° 05′, W 28° —′*	29.82	757.4	80	26.7	91	sse.	.....	.....	2	.....	0	.....	.....	o	o	long	ne.	fine.
S. S. Burswell, N. 50° 39′, W. 9° 54′*†	29.85	758.2	53	11.7	.....	ssw.	.....	.....	5	.....	10	.....	sse.	½ h'r	½ h'r	mod.	nne.	overcast.
S. S. Benledi, N. 51° 19′, E. 2° 00′ *	30.36	771.1	52	11.1	79	s.	.....	.....	2–3	.....	8	.....	ssw.	4 h'r	4 h'r	high	var.	squally.
Bk. Bare, N. 3° 59′, W. 25° 21′	.....	.....	80	26.7	.....	ene.	.....	.....	1	.....	0	.....	.....	o	o	sm'h	.....	hazy.
Bk. Pilgrim, N. 26° 53′, W. 41° 35′*†	30.20	767.1	.....	.....	.....	n.	.....	.....	1	.....	10	.....	se.	6 h'r	6 h'r	sm'h	n.	cloudy.
Bk. Champion, N. 47° 23′, W. 14° 14′ †	29.88	758.9	55	12.8	.....	wsw.	.....	.....	5	.....	5	.....	.....	½ hr	½ h'r	cross	.....	fair.
Bkt. C. S. Bushnell, Alicante, Spain	30.23	767.8	.....	.....	.....	e.	.....	.....	5	.....	2	.....	wsw.	16 h'r	16 h'r	mod.	wsw.	light rain.
S. Cornelius, N. 54° 32′, W. 21° 36′†	29 47	748.5	43.2	0.2	.....	sw.	.....	.....	4	.....	0	.....	.....	o	o	sta'h	.....	fine.
Bk. Commerce, Cadiz, Spain †	30.17	766.3	69	20.6	.....	nne.	.....	.....	6	.....	8	.....	wsw.	10 h'r	10 h'r	cross	ssw.	squally.
Bk. Chas. Stewart, N. 20° 39′, W. 39° 29′ †	30.21	767.3	73	22.8	.....	ese.	.....	.....	1	.....	0	.....	.....	e	o	.....	.....	fine.
S. S. D. J. Foley, N. 22° 56′, W. 74° 26′*†	30.18	766.6	77	25.0	95	e.	.....	.....	4	.....	6	.....	var.	o	o	large	ese.	
Schr. Edith R. Seward, N. 18° 23′ W. 69° 50′†	30.15	765.8	76	24.4	.....	nne.	.....	.....	6	.....	3	.....	ene.	o	o	long	ese.	clear.
S. E. J. Spicer, N. 38° 11′, W 30° 45′	30.35	770.9	55	12.8	93	nne.	.....	.....	2	.....	4	.....	ne.	½ h'r	½ h'r	r'gh	ese.	clear.
Bk. E. D. Bigelow, N. 37° 10′, W. 28° 00′ *†	30.35	770.9	.....	.....	.....	ene.	.....	.....	3	.....	7	.....	nw.	6 h'r	6 h'r	mod.	nnw.	cloudy.
Schr. F. E. McDonald, N. 31° 05′ W., 71° 55′†	30.15	765.8	.....	.....	.....	ene.	.....	.....	4	.....	5	.....	ene.	o	o	cross	nw.	hazy.
S. S. Foscolio, N. 44° 55′, W. 9° 04′†	30.36	771.1	72	22.2	.....	sse.	.....	.....	1	.....	1	.....	sse.	o	o	mod.	sse.	fine.
S. Festina Lente, N. 55° 19′, W. 22° 04′	30.30	769.6	.....	.....	.....	ssw.	.....	.....	5	.....	5	.....	w.	2 h'r	2 h'r	high	.....	fair.
Bg. Gipsy Queen, Cardenas, Cuba, W. I*†	29.39	746.5	39	3.9	.....	sw.	.....	.....	7	.....	8	.....	wsw.	6 h'r	6 h'r	h'vy	var.	squally.
Bg. George, N. 40° 42′, W. 71° 55′ *†	30.15	765.8	74	23.3	.....	ese.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	fair.
Bk. Galeon, Cardiff Roads, Eng	.....	.....	.....	.....	.....	sw.	.....	.....	5	.....	10	.....	.....	o	o	mod.	se.	foggy.
Schr. Hattie Weston, Mayaro, Trinidad, W. I*†	30.00	762.0	46	7.8	.....	se.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	
Bk. Hattie G. McFarland, Pascagoula, Miss*†	30.00	762.0	79	26.1	.....	ene.	.....	.....	3	.....	5	.....	ene.	o	o	mod.	e.	fair.
Bk. Horace Scudder, N. 15° 07′, W. 39° 58′*†	30.28	769.1	71	21.7	.....	se.	.....	.....	1	.....	fg.	.....	.....	o	o	.....	.....	foggy.
Schr. Isabel Alberto, N. 30° 55′, W. 73° 13′†	30.07	763.8	76	24.4	.....	e.	.....	.....	4	.....	7	.....	e.	o	o	long	sse.	fine
S. S. J. W. Wilson, Yanquijo Reef, Mexico*†	30.35	770.9	.....	.....	.....	sse.	.....	.....	2	.....	0	.....	.....	o	o	long	se.	clear.
Schr. John L. Thomas, N. 32° 30′, W. 77° 30′*†	29.90	759.4	60	15.6	.....	nw.	.....	.....	2	.....	10	.....	n.	5 h'r	5 h'r	.....	.....	overcast.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe*†	30.32	770.1	.....	.....	.....	sse.	.....	.....	3	.....	2	.....	s.	o	o	chop	.....	clear.
Bg. Lillan, N. 37° 18′, W. 76° 19′†	30.12	765.0	.....	.....	.....	ene.	.....	.....	1	.....	2	.....	e.	½ h'r	½ h'r	.....	.....	clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.11	764.8	55	12.8	.....	ssw.	.....	.....	4	.....	0	.....	.....	o	o	.....	.....	foggy.
S. S. Madrid, N. 48° 10′ W. 5° 40′*†	30.09	764.3	.....	.....	.....	se.	.....	.....	1	.....	2	.....	.....	o	o	.....	.....	fine.
Bk. Mary A. Troop, Sharpness Point, Eng*†	30.26	768.6	52	11.1	86	s.	.....	.....	0	.....	9	.....	.....	6 h'r	6 h'r	r'gh	var.	raining.
Bkt. Myrtle, St. Thomas, W. I	30.08	764.0	.....	.....	.....	sw.	.....	.....	2	.....	10	.....	.....	o	o	.....	.....	fair.
S. M. P. Grace, N. 35° 20′, W. 40° 29′ *	.....	.....	.....	.....	.....	ene.	.....	.....	0	.....	5?	.....	ene.	6 h'r	6 h'r	.....	.....	cloudy?
S. S. Mendoza, N. 28° 35′, W. 47° 35′*†	30.09	764.3	54	12.2	.....	ne.	.....	.....	0	.....	10	.....	ene.	rain	rain	sm'h	ne.	
Bkt. Noreen, Matanzas, Cuba, W. I*†	30.30	769.6	.....	.....	.....	calm	.....	.....	0	.....	1?	.....	sw.	2 h'r	2 h'r	sm'h	.....	cloudy.?
Bk. Orpheus, N. 48° 48′ W. 8° 11′	30.25	768.3	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	o	o	.....	.....	clear.
Bk. Ottawa, N. 36° 29′, W. 2° 29′ *	30.21	767.3	52	11.1	.....	w.	.....	.....	4	6 k	.....	.....	w.	.....	.....	mod.	w.	fair.
S. S. Raleigh, Perth Amboy, N. J†	30.27	768.8	60	15.6	.....	wsw.	.....	.....	2	1	.....	.....	wsw.	o	o	sm'h	.....	clear.
Bk. Reindeer, N. 18° 00′, W. 64° 40′ *..	30.01	762.2	42	5.6	.....	calm	.....	.....	0	fg.	.....	.....	.....	.....	.....	.....	.....	rainy.
S. Rudolph, N. 23° 52′, W 42° 36′	30.06	763.5	.....	.....	.....	ene.	.....	.....	0	.....	.....	.....	ene.	.....	.....	short	ene.	clear.
Bk. Rebda, N. 49° 23′, W. 6° 19′	.....	.....	67.7	19.8	.....	e.	.....	.....	1–2	.....	0	.....	w.	1 h'r	1 h'r	mod.	wnw.	fair.
Bk. Sunbeam, N. 31° 30′, W. 20° 14′	.....	.....	.....	.....	.....	ssw.	.....	.....	7	.....	9	.....	s.	2 h'r	2 h'r	cross	ssw.	raining.
Bk. Scud, N. 30° 37′, W. 7° 55′*†	30.24	768.1	68	20.0	74	ese.	.....	.....	4	.....	2	.....	ese.	o	o	sm'h	.....	clear
Bk. Usko, N. 47° 01′, W. 12° 23′*†	30.39	771.9	.....	.....	.....	sse.	.....	.....	1	.....	3	.....	se.	o	o	sm'h	.....	fine.
S. Vincenzo Accame, N. 37° 28′ W. 45° 30′*†	30.04	763.0	.....	.....	.....	wsw.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	
Schr. Viola Reppard, Tybee Island, Ga†	30.41	772.5	57.2	14	.....	ne	.....	.....	3	.....	4	.....	ne.	o	o	sm'h	n.	fair.
Schr. Wm. Wiler, Point a Petre, Gaudeloupe, W.I†	30.19	766.8	68	20.0	.....	sw.	.....	.....	1	.....	5	.....	sw.	o	o	.....	.....	clear.
	30.06	763.5	.....	.....	.....	e.	.....	.....	1	.....	2	.....	ene.	o	o	.....	.....	fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
									Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																	
S. S. Wm. Woodbury, N. 61° 25′, W. 17° 50′			43	6.1		sse.			6		4	s.			long	sw.	clear.
S. S. Colon, N 16° 17′, W. 73° 35′†	30.03	762.7	80	26.7		e.			5		3	e.	1 h'r	1 h'r	large	ese.	clear.
S. S. Ambrose, N. 31° 08′ W., 70° 15′†	30.52	775.2	71	21.7		calm			0		0		0	0			fine.
District No. 2—South Atlantic.																	
H. M. S Heroine, S. 46° 06′, W. 62° 45′	30.16	766.1	55	12.8		nne.			2		4	ese.			1	ene.	d. clouds.
H. M. S. Starling, S. 8° 45′ E. 13° 17′	29.91	759.7	82.2	27.9	95	wsw.			1-2		1	wsw.					blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay*..	29.83	757.7	70	21.1	84	ssw.	10	4.5			8	ssw.	0	0	mod	sw.	fair.
U. S. S. Galena, Colonia, Uruguay*.	29.87	758.7	66	18.9	?	nw.			3		2				sm'h		clear.
S. S. Grecian, Buenos Ayres, La Plata*	29.92	760.0	65	18.3	84	ssw.			3		5	ssw.	0	0			clear.
S. S. Hevelius, Montevideo, Uruguay†	30.02	762.5	76	24.4		s.			5		4?	se.	0	0			clear ?
S. S. Caldew, S. 11° 05′, W. 10° 12′	29.97	761.2	77.1	25.1	81	se.			4		4						d. clouds.
Bk. May Hulse, S. 58° 42′ W. 64° 55′	29.71	754.6	40.5	4.7	95	wnw.			3								foggy.
Bk. Ceres, S. 1° 04′, W. 29° 28′*	29.89	759.2	80.2	26.8	81	se.			4		5	se.	0	0			fair.
Bk. Essex, S. 35° 09′, E. 17° 43′*†	30.05	763.3	73.0	22.8		ssw.			4		0		0	0	mod.	sw.	clear.
Bk. E. L. Pettingill, S. 27° 37′, W. 25° 30′*†	30.30	769.6	82	27.8		nnw.			1		0		0	0	sm'h		
S. E. B. Sutton, S. 28° 14′, W. 45° 06†	29.94	760.5	81	27.2	83	ne.			1		3	ne.	0	0	sm'h	se.	fair.
S. Grecian, S. 25° 27′, W. 28° 57′†.	30.17	766.3	81	27.2	78	e.			2		2	e.	0	0	sm'h		clear.
S. George Stetson, S. 57° —′, W. 65° —′ *†	29.66	751.8	47	8.3	85	wnw.			7		2?	nw.	light	light	chop	w.	cloudy ?
S. Titan, S. 33° 20′, W. 48° 59′*†	29.90	759.4	75	23.9	90	nne.			3		5	nw.	0	0	sm'h	e.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay †	29.90	759.4	71	21.7		ssw.			4		8	s.	0	0			fair.
District No. 3—North Pacific.																	
S. S. Mexico, N. 24° 55′ W. 110° 22′†	30.13	765.3	59	15.0	76	nw.			8		0				h'vy	nw.	clear.
S. S. Belgic, Yokohama, Japan *†	30.05	763.3	45	7.2	68	ne.			3		3	ne.	0	0			clear.
S. S. Coptic, N. 38° 08′ W. 154° 49′	29.45	748.0	48.0	8.9	63	wsw.			6		9	w.	6 h'r	6 h'r	mod	con.	cloudy.
S. S. Gaelic, N. 42° 14′, W. 152° 48′	29.12	739.6	44	6.7	92	wsw.			6		10	sw.	10 h'r	10 h'r		sw.	cloudy.
S. S. Oceanic, N. 34° 22′, E. 147° 10′*	29.66	753.4	54	12.2	87	nw.			8		6	nw.			h'vy	nw.	showery
S. S. Columbia, Mouth of Willamette River, Oregon†	30.58	776.7	27	— 2.8	77	sse.			2		10						cloudy.
S. S Oregon, San Francisco, Cal†	30.55	776.0	43	6.1	83	calm			0		0						hazy.
S. S. Mississippi, N. 46° 32′, W. 124° 32′ †	30.40	772.1	46	7.8	84	se.			2		0						clear.
S. S. Ancon, N. 33° 43′, W. 118° 25′†	30.50	774.7	51	10.6	40	ese.			3		0				sm'h		clear.
S. S. City of Chester, Eureka, Cal *†	30.59	777.0	38	3.3	63	calm			0		0		0	0			clear.
S. S. G. W. Elder, Tacoma, W. T.†	30.64	778.2	35	1.7	80	ne.			2		8				sm'h		overcast.
S. S. Queen of the Pacific, San Francisco, Cal*†	30.60	777.2				e.			1		0						clear.
S. S. State of California, Portland, Oregon †	30.62	777.7	30	— 1.1	77	calm			0		0						clear.
S. S. City of New York, N. 31° 18, W. 136° 24′†	30.18	766.6	66	18.9	79	se.			6		10	se.	0	0	mod.	se.	cloudy.
S. S. City of Pekin, Hong Kong, China †	30.06	763.5	52	16.7	88	e.			5		8	ne.					cloudy.
S. S. City of Rio de Janeiro, N. 14° 15′, W. 92° 00			78	25.6	78	ne.			2		0		0	0	light	sw.	clear.
S. S. Colima, N. 12° 07′, W. 87° 52′†	29.94	760.5	80	26.7	87	e			4		0		0	0	mod.	se.	clear.
S. S. Granada, N. 30° 08′, W. 116° 26′ †	30.31	769.9	53	11.7	48	w.			2		0		0	0	mod.	var.	clear.
S. S. San José, N. 31° 05′, W. 118° 50′†	30.42	772.7	55	12.8	62	ene.			4		0		0	0	h'vy	var.	clear.
S. S. Zealandia, N. 28° 11′, W. 148° 27′	30.04	763.0	67	19.4	84	se.			6		10				h'vy	sw.	dull.
H. M. S Curacoa, N. 33° 24′, E. 135° 53′	29.98	761.5	55.5	13.1	75	n.			2		0				5	ne.	blue sky.
H. M. S. Himalaya, N. 10° 57′, E. 112° 00′	29.99	761.7	78	25.6	91	ne.			2		6				2	ne.	d. clouds.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.86	758.4	67	19.4		calm			0		5						d. clouds.
H. M. S. Swiftsure, N. 5° 42′, W. 112° 33′	29.92	760.0	77	25.0	95	nne.			4-5		6	n.					showery.
U. S. Naval Hospital, Yokohama, Japan*...	30.25	768.3	40.5	4.7	91	e.			2		2	e.	0.02	0.5			clear.
U. S. S. Independence, Mare Island Cal	30.62	777.7	36	2.2	80	ase.			1		0		0	0			clear.
U. S. S. Lackawanna, Honolulu Sandwich, Islands*	29.81	757.2	71	21.7	80	n.			1		2	n.					clear.
U. S. S. Monocacy, Hong Kong, China	30.05	763.3	62	16.7	88	ne.			3		10	calm					cloudy.
U. S. S. Palos, Tientsin, China*	30.16	766.1	23	—5.0	100	wsw.			1		5	nw.					fair.
U. S. S. Ranger, Mare Id, Cal	30.65	778.5	58	14.4	?	calm			0		0		0	0			clear.
U. S. S. Richmond, Hong-Kong, China *	29.99	761.7	62	16.7	100	nne.			3		10	nne.	0	0			cloudy.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.78	756.4	67	19.4	95	n.			1		2	n			sm'h		fair.
S. S. Scotia, Hong Kong, China	30.06	763.5	61.8	16.6	88	e.			3		8						d. clouds.
S. Henry Failing, N. 36° 02′ W. 123° 10′ †.	30.55	776.0	50	10.0		ese.			1		1	e.	0	0	sm'h	nw.	fine.
S. St. Francis, N. 11° 59′, W. 123° 42′†	30.09	764.3	73	22.8		e.			6		4	e.	0	0	h'vy	nne.	fair.
Tamega, Macao, China	30.09	764.2	68.0	20.0	80	e.			3		10		0	0			overcast.
District No. 4—South Pacific.																	
H. M. S. Comus, Callao, Peru	29.90	759.4	66	18.9	100	s.			2		10						foggy.
H. M. S. Kingfisher, S. 10° 40′, W. 92° 27′	29.91	759.7	76	24.4		se.			4		5				4	se.	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	29.70	754.4	68.3	20.2	90	nnw.			2		3				sm'h		d clouds.
H. M. S. Liffey, S 29° 56′, W. 71° 20′	29.85	758.2	62	16.7		nne.			2						2	nne.	d. clouds.
H. M. S. Rocket, S. 53° 10′, W. 71° 00′	29.98	761.5	53	11.7	93	wnw.			2		3	wnw.					d. clouds.
H. M. S. Sylvia, Sandy Point, Patagonia	29.91	759.7	54.5	12.5	87	nne.			1		6						d. clouds.
U. S S. Essex, Callao, Peru	29.89	759.2	67	19.4	95	se.			1		10						foggy.
U. S. S. Iroquois, S. 33° 27′, W. 99° 30′	30.34	770.6	70	21.1	80	ne.			1		2	ne.			sm'h	s.	clear.
U. S. S. Onward, Callao, Peru*†	30.01	762.2	66	18.9	94	sse.			2		10	n.					foggy.
U. S. S. Pensacola, S. 20° 50′, W. 74° 47′*	29.81	757.2	71	21.7	57	sse.			3		10		0	0	long	sse.	overcast.
British Merchant, S. 34° 52′, W. 137° 00′	30.08	764.0	68.6	20.3	95	se.			4		8						d. clouds.
Bk. Childwall, S. 18° 40′, W. 137° 00′*	29.77	756.1	78	25.6		nnw.			3		7	nw.	4 h'r	4 h'r	sm'h		squally.
Bk. Edmund Phiney, S. 58° 51′, W. 71° 17′ †	29.66	753.4	46	7.8		nw.			6		10	nw.	0	0	h'vy	wnw	stormy.
Bk. Gronsvaer, Auckland, New Zealand†	29.65	753.2	74.3	23.5		n.			6		8?	n.	2 h'r	2 h'r			clear.?
Bk. Godeffroy, N. 21° 49′, W. 76° 52′*	29.77	756.1	68.0	20.0	72	ese			4		9	sse.	½ h'r	½ h'r	long	s.	cloudy.
S. S. Australia, Sydney, N. S. W*	29.48	748.8	71	21.7	90	calm			0		3	se.	0	0			clear.
S. S City of Sydney, Sydney, N. S. W†	29.82	757.4	72	22.2	80	ene.			3		5?	ne.	0	0			cloudy.?
H. M. S. Gannet, S. 2° 43′, W. 79° 54′	29.86	758.4	75	23.9	95	s.			1		10						showery.
Bk. Warden Law, S. 34° 18′, W. 90° 08′ *	30.36	771.1				se.			3		3	se.	0	0	sm'h	s.	fair.
S. Sovereign of the Seas, S. 56° 37′, W. 70° 21′ *†	29.90	759.4	48	8.9	92	nw.			5		9	nw.	0	0	high	wnw.	fine.
District No. 5—Indian Ocean.																	
H. M. S. Dryad, S. 6° 10′ E. 39° 11′	29.82	757.4	81	27.2		sse			1		9	ese.					thund'r shrs
H. M. S. Eclipse, N. 28° 59′ E. 50° 48′	29.95	760.7	60	15.6		wnw.			1		3	wnw.					d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.87	758.7	80	26.7		sse.			2		6	sse.			2	sse.	d. clouds.
H. M. S. Woodlark, N. 25° 05′, E. 57° 25′	29.95	760.7	71.5	21.9	58	nw.			3		3	sw.			3	sw.	d. clouds.
S. S. Galatia, N. 11° 55′, E. 52° 01′†	29.90	759.4	75.3	24.1	?	e.			2		6	se.	0	0	sm'h		cloudy.
Bkt. Josephine, S. 34° 01′, E. 25° 52′†	30.00	762.0	74	23.3	81	e.			5		0		0	0	mod.	e.	hazy.
S. Sacramento. S. 45° 30′, E. 43° 20′ *†	30.13	765.3	47	8.3	77	nw.			5		7	nw.	0	0	mod	nw.	fair.

International Chart I. February 17, 1883. Isobars and Isotherms.



By Order of the Secretary of War:
W.B.Hazen, Chief Signal Officer.

Signal Office 14th.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 18, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.32	770.0	59.0	15.0	81	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.29	769.3	57.2	14.0	85	nne.	.....	.....	2	.....	0	.....	.....	0	0	clear	Thève.
La Calle	.....	.....	30.11	764.9	60.8	16.0	71	nw.	.....	.....	2	.....	3	.....	.....	0.177	4.5	pretty fair	Fonfrède.
Tunis	.....	.....	30.10	764.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.32	770.0	64.0	17.8	58	se.	.....	.....	2	.....	0	.....	.....	0	0	clear	Pérès.
Tebessa	.....	.....	30.18	766.6	43.2	6.2	72	n.	.....	.....	4	.....	4	.....	.....	0.181	4.6	cloudy	Dognon.
Geriville	.....	.....	.....	.....	56.5	13.6	10	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Forfert.
Laghouat	.....	.....	30.29	769.3	46.0	7.8	59	nw.	.....	.....	3	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.24	768.1	64.0	17.8	35	nw.	.....	.....	6	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.43	747.5	29.52	749.8	63.2	17.3	63	w.	10	4.5	.....	.....	4	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.80	756.8	30.38	771.6	33.1	0.6	73	ne.	.....	.....	3	.....	8	.....	.....	0	0	.....	Prof. Ivan Stezin.
Cracow, I. R Observatory	29.63	752.5	30.45	773.4	25.9	— 3.4	87	ene.	9.8	4.4	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.44	747.8	30.37	771.4	31.0	— 0.2	70	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.04	737.6	30.37	771.4	30.4	— 0.9	75	w.	.....	.....	2	.....	10	.....	.....	0.010	0.4	.....	Andreas Rospini.
Hermannstadt	28.83	732.2	30.35	770.9	28.2	— 2.1	96	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.87	733.2	30.28	769.2	30.9	— 0.6	88	ene.	.....	.....	2	.....	10	.....	.....	0	0	gloomy	The Staff.
Lemberg	29.41	747.0	30.48	774.2	23.2	— 4.9	55	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.80	680.8	30.29	769.3	36.9	2.7	47	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.11	764.8	30.23	767.8	39.9	4.4	50	ene.	.....	.....	3	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.85	758.1	30.32	770.1	34.5	1.4	56	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	30.06	763.6	30.36	771.2	31.0	— 0.2	78	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.13	765.2	30.22	767.7	39.6	4.2	40	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Royal Academy.
Vienna	29.63	752.5	30.39	771.9	30.6	— 0.8	75	se.	.....	.....	2	.....	10	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.82	757.4	29.93	760.2	40.0	4.4	81	nw.	14	6.3	.....	.....	9	.....	.....	0.020	0.5	overcast	W. Boswell
Armagh, Observatory	29.78	756.4	30.04	763.0	39.2	4.0	90	e.	3	1.3	.....	.....	.....	.....	.....	.....	.....	.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.99	761.7	42.8	6.0	88	w.	15	6.7	.....	.....	9	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.42	747.3	29.96	761.0	43.5	6.4	77	w.	12	5.4	.....	.....	7	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.01	0.3	.....	McLandsborough&Preston.
Bridgetown, Barbadoes	29.90	759.4	29.93	760.2	81.0	27.2	62	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl.J.Surgenor, A.H.C
Cardington	29.87	758.7	30.00	762.0	42.0	5.6	90	w.	.....	.....	0.2	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E	29.83	757.7	29.96	761.0	39.7	4.3	98	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	Corpl. G. A. Pickles.
Falmouth, Observatory	29.86	758.4	30.10	764.5	42.9	6.1	84	w.	.....	.....	1	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.62	701.5	29.85	758.2	80.0	30.0	58	calm	.....	.....	0	.....	3	.....	.....	.....	.....	blue sky	Corpl. F. Milner, A. H. C.
Freetown	29.63	752.6	29.86	758.4	85.0	29.4	91	e.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	29.89	759.2	29.93	760.2	40	4.4	91	w.	.....	.....	2	.....	3	.....	.....	0.41	10.4	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.12	765.0	30.18	766.6	64.9	18.3	92	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.72	754.9	29.92	760.0	44.1	6.7	67	wnw.	.....	.....	4	.....	3	.....	.....	blank	blank	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.79	756.7	29.96	761.0	41.2	5.1	98	calm	.....	.....	0	.....	10	.....	.....	0.48	12.2	threatening	The Staff.
Guernsey	29.84	757.9	30.14	765.5	47.0	8.3	85	nw.	.....	.....	2	.....	8	.....	.....	blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.92	760.0	29.96	761.0	42.6	5.9	94	w.	6	2.7	.....	.....	9	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.71	754.6	29.97	761.2	43.0	6.1	75	sw.	.....	.....	?	.....	8	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.91	759.7	29.98	761.5	54.0	12.2	93	n.	.....	.....	2	.....	7	.....	.....	0.40	10.2	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.21	767.3	30.26	768.6	75.0	23.9	72	se.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe
Oscott, St. Mary's College	29.45	748.0	29.98	761.5	41.8	5.4	77	wnw.	.....	.....	2	.....	9	.....	.....	.....	.....	gloomy	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.75	755.6	29.98	761.5	43.8	6.6	71	nw.	.....	.....	3	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Plymouth	29.96	761.0	30.04	763.0	45.3	7.4	90	nw.	.....	.....	1	.....	10	.....	.....	.....	.....	misty	John Merrifield.
Sandwick Manse, Orkneys	29.80	756.9	29.90	759.4	41.2	5.1	90	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.17	766.3	30.24	768.1	37.4	3.0	80	nne.	.....	.....	3	.....	10	.....	.....	.....	.....	drizzling	W. H. Lyne.
Sheffield	29.68	753.9	29.97	761.2	43.0	6.1	79	nnw.	.....	.....	1	.....	9	.....	.....	0	0	overcast	W. F. Cooper.
Silloth Rectory	29.93	760.2	29.96	761.0	40.1	7.8	74	w.	.....	.....	1	.....	2	.....	.....	0.145	3.7	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.97	761.2	43.2	6.2	72	w.	12	5.4	.....	.....	3	.....	.....	.....	.....	blue sky	Rev. S. J. Perry.
Stratfield Turgiss	29.76	755.0	29.98	761.5	47.4	8.6	82	nw.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	30.02	762.5	30.08	764.0	51	10.6	64	nw.	.....	.....	6	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.99	761.7	30.02	762.5	44.5	6.9	75	wsw.	12	5.4	.....	.....	8	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.55	750.6	29.94	760.5	50.7	13.7	66	nnw.	18.6	8.3	.....	.....	9 n	.....	nnw.	0.098	2.5	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.15	765.8	30.20	767.1	18	— 7.8	60	nw.	12	5.4	.....	.....	10 s	.....	W.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.20	767.1	30.27	768.8	9	—12.8	83	w.	9	4.0	.....	2 k	8 s	W.	W.	0.02	0.5	cloudy	G. A. Blair
Cornwall	30.26	768.6	30.47	773.9	10.0	—12.2	85	nw.	.....	.....	1	0	2 s	.....	.....	0	0	blue sky	Jas. Smith, M. A.
Dalhousie	30.22	767.6	30.27	768.8	2.0	—16.7	.....	w.	.....	.....	4	0	0	.....	W.	0.370	9.4	blue sky	H. A. Johnson.
Father Point, Quebec*	30.29	769.4	30.31	769.9	4	—15.6	83	nw.	35	15.6	.....	0	8 s	.....	W.	0.02	0.5	fair	J. McWilliams.
Fort Garry, Manitoba*	29.50	749.3	30.48	774.2	—19	—28.3	48	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	James Stewart
Fredericton	30.26	768.6	30.33	770.4	14.1	— 9.9	62	nw.	8	3.6	.....	.....	10 s	.....	.....	0	0	overcast	Prof. Harrison, L. L. D.
Granton	29.40	746.7	30.62	777.7	13.5	—10.3	91	nw.	5	2.2	.....	.....	10 n	.....	.....	0	0	overcast	Jas. Grant.
Halifax, N. S*	30.06	763.5	30.20	767.1	30	— 1.1	74	nw.	8	3.6	.....	.....	10 k	.....	.....	0.088	2.2	cloudy	A. Allison.
Hamilton	30.15	765.8	30.57	776.5	18.7	— 7.4	87	w.	.....	.....	1	10 ck	0	sw.	.....	0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	30.18	766.6	30.56	776.2	7	—13.9	70	w.	5	2.2	.....	5 cs	0	W.	.....	0.03	0.8	fair	A. P. Knight, M. A.
Montreal, Quebec*	30.25	768.3	30.48	774.2	5	—15.0	76	ne.	9	4.0	.....	0	0	.....	.....	0.01	0.3	clear	C. H. McLeod, C. E.
Ottawa	30.22	767.6	30.50	774.7	5.1	—14.9	86	calm	.....	.....	0	0	0	.....	.....	0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.74	755.4	30.54	775.7	— 4	—20.0	65	e.	1	1.8	.....	2 k	5 ks	W.	W.	inap.	inap.	fair	Rev. R. Mosley.
Peterboro	29.77	756.1	30.61	777.5	0.0	—14.4	88	sw.	.....	.....	3	.....	10 s	.....	.....	0	0	overcast	J. Dixon, B. A.
Port Dover, Ontario	29.82	757.4	30.58	770.7	18	— 7.8	84	nw.	7	3.1	.....	10 c	0	W.	.....	0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.90	759.4	30.60	777.2	15	— 9.4	91	w.	7	3.1	.....	.....	8 k	.....	W.	0	0	cloudy	M. Payne.
Quebec, Quebec*	30.06	763.5	30.43	772.9	0	—17.8	68	w.	.....	.....	3	2 c	0	.....	.....	0.04	1.0	clear	Capt. Ashe, R. N
Rockdile, Ontario*	29.98	761.5	30.52	775.2	—10	—23.3	90	calm	0	0	.....	.....	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.70	755.9	30.54	775.7	10	— 8.9	87	w.	10	4.5	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	
St. Andrews, N. B.	30.25	768.3	30.30	769.6	20	— 6.7	77	wnw.	3	1.3	.....	.....	10 n	.....	.....	0	0	cloudy	
St. John, N. B	30.10	764.5	30.27	768.8	20	— 6.7	92	n.	13	5.8	.....	.....	10 ks	.....	.....	0	0	overcast	G. Murdock, C. E.
St. Pierre, N. F.	.....	.....	29.80	756.9	25.5	— 3.6	.....	sw.	.....	.....	6	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	29.19	741.4	30.60	777.2	12.0	—11.1	90	w.	4	1.8	.....	.....	10 s	.....	.....	0.050	1.3	overcast	C. J. Macgregor, M. A.
Sydney, C. B*	30.04	763.0	30.11	764.8	23	— 5.0	67	w.	12	5.4	.....	.....	10 s	.....	.....	0.25	6.3	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	30.17	766.3	30.59	777.0	15	— 9.4	87	n.	5	2.2	.....	.....	10 ks	.....	W.	0	0	cloudy	Magnetic Observatory.
Windsor	30.10	764.5	30.20	767.1	25.0	— 3.9	68	w.	16	7.2	.....	.....	10 n	.....	.....	0	0	overcast	Prof. W. H. Butler, M. A.
Woodstock	29.46	748.3	30.04	778.2	14.3	— 9.8	93	w.	8.0	3.6	.....	10 k	0	W.	.....	0	0	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.19	766.8	30.26	768.6	29	— 1.7	84	nw.	8	3.6	.....	.....	10 k	.....	nw.	0.01	0.3	cloudy	Lt. F. E. Wilmot R.N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the last 24 hours. Inch.	Mill.	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	30.03	762.7	30.06	763.5	75.5	24.2	82	e.	9.9	4.4	.....	0	2 k	.....	.....	0	0	light haze	**John Duthie.**
Springbok Fontein	27.85	707.4	.....	.....	95	35.0	59	nw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**J. T. Eustace.**
Chinese (Sub-series).																			
Sung-shu-chwang	24.58	624.4	.....	.....	25.5	— 3.6	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	light fog	
Tchang-kia-tchouang	30.34	770.7	30.45	773.5	26.2	— 3.2	100	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	R. P. Desurmont, S.J.
Zi-Ka-Wei, near Shanghai	30.27	768.8	30.29	769.4	41.2	5.1	97	nne.	6.3	2.8	.....	.....	10 k	.....	.....	0.031	0.8	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.34	770.7	30.39	771.9	28.6	— 1.9	74	se.	27	12	.....	.....	10	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	30.22	767.5	30.24	768.0	30.7	— 0.7	92	sse.	.....	.....	6	.....	1	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	27.87	707.9	27.91	709.0	32.2	0.1	76	e.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	28.02	711.6	28.04	712.1	31.1	— 0.5	.....	sse.	.....	.....	4–6	.....	10	.....	.....	.....	.....	snowing	
Jacobshavn, Greenland	28.29	718.6	28.34	719.8	24.4	— 4.4	.....	e.	.....	.....	6	.....	6	.....	.....	.....	.....	snowing	
Stykkisholm, Iceland	29.13	740.0	29.18	741.1	33.4	0.8	90	se.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.73	755.2	29.77	756.1	44.8	7.1	74	sw.	20	9	.....	.....	3	.....	.....	.....	.....	.....	Overloerer Berch
Vestervig	30.19	766.8	30.28	769.1	30.0	— 1.1	74	ese.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	Loerer Oesterbol
Upernavik, Greenland	28.56	725.4	28.61	726.6	9.1	—12.7	.....	e.	.....	.....	2	.....	10	.....	.....	.....	.....	hazy	
French.																			
Agen, Normal School	29.59	751.5	30.25	768.3	48.9	9.4	89	calm	.....	.....	0	.....	n	.....	nw.	0	0	.....	M. Labroue, Director.
Alençon, Normal School	29.50	749.3	30.05	763.3	40.6	4.8	97	s.	.....	.....	1	.....	n	.....	n.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	29.79	756.6	30.06	763.4	38.8	3.8	87	s.	.....	.....	4	.....	n	.....	.....	0	0	.....	M. Fénéon, Command't.
Avignon, Normal School	30.09	764.3	30.17	766.3	49.3	9.6	62	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.58	751.3	30.15	765.9	43.5	6.4	79	s.	.....	.....	1	0	5 kn	.....	w.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.80	756.9	30.08	764.0	39.0	3.9	80	ese.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Frère Eugène Marié
Besançon, Normal School	29.21	742 0	30.12	765.1	46.4	8	86	sw.	.....	.....	1	.....	kn	.....	ne.	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	29.89	759.3	30.21	767.2	43.7	6.5	100	ssw.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	M. Rayet, Director.
Bourges, Normal School	29.58	751.3	30.15	765.8	41.0	5	84	e.	.....	.....	2	.....	kn	.....	e.	0	0	.....	M. Malet, Director.
Brest, Naval Observatory	29.89	759.2	30.13	765.3	49.3	9.6	84	wnw.	.....	.....	2	.....	6	.....	wnw.	0.441	11.2	.....	M. de Kermaingé, Dir.
Caen, Normal School	29.96	761.0	30.04	762.9	38.8	3.8	92	e.	.....	.....	1	.....	10	.....	.....	0.256	6.5	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.80	756.9	30.13	765.2	46.6	8.1	83	sw.	.....	.....	2	.....	5	.....	.....	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.60	751.8	30.12	765.0	40.3	4.6	77	ese.	.....	.....	3	.....	8	.....	.....	0	0	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.76	730.6	30.16	766.0	42.8	6.0	60	n.	.....	.....	1	.....	10	.....	.....	0	0	hazy	M. Allnard, Director.
Cluny, Normal School	29.30	744.3	30.17	766.3	46.9	8.3	65	sw.	.....	.....	2	.....	6	.....	s.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.28	743.7	30.17	766.4	38.3	3.5	80	nw.	.....	.....	1	.....	10 n	nw.	nw.	0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.59	700.7	30.17	766.2	45.5	7.5	65	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, du Rhone	29.01	736.8	30.15	765.8	50.2	10.1	54	sw.	.....	.....	2	.....	5	.....	sw.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.39	746.6	30.19	766.7	46.4	8	59	wnw.	.....	.....	1	.....	10 kn	.....	.....	.....	.....	light rain	M. Ablard, Director.
Guéret	28 51	724.2	30.14	765.6	44.6	7	71	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	**M. Delorme, Dir.**
Lamballe, Normal School	29.89	759.1	30.16	766.1	45.7	7.6	89	sw.	.....	.....	4	.....	5	.....	sw.	0.08	2.	cloudy	M. Olivrault, Director
Lescar, Normal School	29.61	752.1	30.18	766.5	55.4	13.0	45	wsw.	.....	.....	1	0	5 k	.....	.....	0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.05	763.2	30.15	765.8	51.8	11.0	59	w.	.....	.....	1	.....	2	.....	calm	0.039	1.0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.11	739.4	30.20	767.0	43.0	6.1	72	ese.	.....	.....	1	2 c	0	.....	.....	0	0	slightly cl'dy	M. André, Director.
Mans, Normal School	29.77	756.2	30.09	764.2	40.1	4.5	89	sw.	.....	.....	3	.....	10	.....	.....	0	0	covered	M. Piboën, Director.
Marseille, Observatory	29.91	759.6	30.18	766.6	52.3	11.3	72	wsw.	.....	.....	1.2	.....	6	.....	wsw.	0	0	.....	M. Stephan, Director.
Montlouis	24.86	631.4	29.70	754.4	42.8	6.0	15	ne.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	**M. Caré for Dr. Fines.**
Montpellier, Normal School	30.04	763.0	30.17	766.3	52.5	11.4	90	s.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.29	744.0	30.10	764.5	41.7	5.4	78	wnw.	.....	.....	1	.....	fg	.....	n.	0	0	foggy	M. Husse, Director.
Nantes, Observatory	29.99	761.7	30.15	765.8	52.9	11.6	63	wnw.	.....	.....	1–2	.....	9 kn; n	.....	wnw.	0.091	2.3	.....	M. Lavocque, Director.
Perpignan, Observatory	30.09	764.2	30.20	767.1	53.6	12.0	34	se.	1.8	0.8	.....	.....	1	nw.	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.25	539.6	.....	.....	23.0	— 5.0	.....	nw.	.....	.....	2	.....	5	.....	nw.	0.031	0.8	cloudy	**M. Vaussenat, Director.**
Privas, Normal School	29.10	739.2	30.20	767.0	44.6	7	89	s.	.....	.....	1	.....	2	s.	s.	0	0	slightly cl'dy	M. Taillen.
Puy de Dôme Obs'y, Summit	25.15	638.7	.....	.....	28.9	— 1.7	52	w.	.....	.....	4	.....	8	.....	.....	0.004	0.1	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.11	764.9	30.15	765.7	47.1	8.4	89	calm	.....	.....	0	.....	10	.....	.....	0.24	6.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.84	757.9	30.06	763.5	49.3	9.6	86	w.	.....	.....	1	.....	2	.....	nw.	0.087	2.2	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	28.01	711.5	30.22	767.6	41.0	5	47	nw.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Seger, Director.
Rouen, Normal School	30.03	762.8	30.08	764.0	38.8	3.8	93	sse.	.....	.....	1	.....	10	s.	.....	0.035	0.9	covered	M. Moullot.
Saint Lô	.....	.....	.....	.....	47.5	8.6	78	w.	.....	.....	1	.....	5	w.	w	0.252	6.4	cloudy	**M. Delaplanche, Dir.**
Saint Maur, Observatory	29.94	760.5	30.11	764.7	37.4	3.0	92	s.	.....	.....	1	.....	1	.....	sw.	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.51	749.5	30.24	768.0	44.4	6.9	78	se.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	M. Baillaud, Director.
Tours	29.93	760.3	30.11	764.8	42.4	5.8	84	s.	.....	.....	1	.....	10	.....	sw.	.....	.....	raining	M. de Tastes.
Versailles, Observatory	29.58	751.4	30.08	763.9	38.1	3.4	83	sw.	.....	.....	2	.....	.....	.....	.....	0.012	0.3	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.09	764.2	30.24	768 0	53.6	11.7	90	w.	19.7	8.8	.....	.....	10 kn	.....	w.	.....	.....	light rain	**M. Cartier, Director.**
German.																			
Ansbach	28.76	730.4	30.28	769.0	36.7	2.6	70	e.	.....	.....	4	.....	8	e.	.....	0	0	.....	**Prof. Juedt.**
Bamberg	29.40	746.8	30.25	768.4	37.6	3.1	75	calm	.....	.....	0	.....	4	.....	.....	0	0	.....	**Prof. Dr. Hoh.**
Berlin	30.22	767.6	30.37	771.5	29.3	— 1.5	67	e.	.....	.....	3	.....	10	.....	.....	0	0	.....	**Meteorological Institute.**
Breslau	29.88	759.0	30.42	772.7	27.5	— 2.5	74	ese.	.....	.....	2	.....	0	.....	.....	0	0	.....	Royal University Obs'y
Carlsruhe	29.74	755.3	30.21	767.3	43.7	6.5	58	e.	.....	.....	1	.....	10	se.	.....	0.138	3.5	.....	Albert Senz.
Cassel	29.45	748.0	30.16	766.1	37.8	3.2	74	ssw.	.....	.....	1	.....	5	w.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.82	757.5	30.21	767.2	40.8	4.9	61	ese.	.....	.....	1	.....	6	.....	.....	0	0	.....	**Physical Society.**
Friedrichshafen	28.71	729.1	30.18	766.6	41.7	5.4	70	nw.	.....	.....	3	.....	6	ene.	.....	0.130	3.3	.....	Wilhelm, Chief Tel.
Hamburg	30.19	766.8	30.28	769.1	28.9	— 1.7	82	sse.	.....	.....	4	.....	5	.....	.....	0	0	.....	E. Preller.
Kiel	30.28	769.2	30.30	769.6	29.5	— 1.4	74	se.	.....	.....	3	.....	10	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.87	758.6	30.31	769.8	36.5	2.5	56	ese.	.....	.....	2	.....	0	.....	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	30.10	764.4	30.30	769.5	34.2	1.2	67	e.	.....	.....	1	.....	1	se.	.....	0	0	light haze	**Dr. Assmann.**
Memel	30.65	778.5	30.70	779.7	31.1	— 0.5	33	se.	.....	.....	3	0	0	.....	.....	.....	.....	clear	Isserstedt.
Munich	28.34	719.7	30.21	767.3	34.3	1.3	85	e.	.....	.....	2	.....	10	nw.	.....	0.012	0.3	.....	**Central Station.**
Neufahrwasser	30.53	775.5	30.55	775.9	31.1	— 0.5	53	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	**A. Lothes.**
Neustadt, Palatinate	29.65	753.2	30.19	766.7	41.4	5.2	74	calm	.....	.....	0	.....	9	.....	.....	0	0	.....	Dicknether.
Stuttgart	29.22	742.3	30.15	765.8	40.1	4.5	65	e.	.....	.....	1	.....	10	.....	.....	0.035	0.9	raining	**Prof. Dr. Schodar.**
Wustrow	30.38	771.7	30.41	772.3	28.4	— 2.0	84	ese.	.....	.....	2	.....	10 8	.....	.....	0	0	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.73	755 1	30.12	765.1	48.9	9.4	.....	n.	.....	.....	3.0	.....	9	.....	.....	0	0	covered	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.94	760.4	29.99	761.8	72.6	22.6	28	wnw.	13.0	5.8	.....	.....	10	w.	.....	0	0	overcast	
Deesa	29.44	747.7	29.92	759.9	77.3	25.2	34	sw.	18.0	8.0	.....	.....	10	wsw.	.....	0	0	overcast	
Bombay	29.91	759.7	29.95	760.7	77.1	25.1	09	nw.	18.0	8.0	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.01	711.5	29.84	757.8	88.4	31.3	22	wnw.	18.0	8.0	.....	.....	1	w.	.....	0	0	d. clouds	
Belgaum	27.35	694.7	29.84	757.9	86.8	30.4	20	se.	8.0	3.6	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.06	738.2	29.84	758.0	56.1	13.4	54	w.	4.0	1.8	.....	.....	10	.....	.....	0.30	7.6	raining	
Roorkee	28.97	735.9	29.89	759.2	70.2	21.2	53	s.	8.0	3.6	.....	.....	4	w.	.....	0	0	.....	
Agra	29.34	745.3	29.92	760.0	72.2	22.3	51	e.	2.0	0.9	.....	.....	9	.....	e.	0	0	d. clouds	
Nagpur	28.84	732.4	29.86	758.5	90.2	32.3	18	sw.	12.0	5.4	.....	.....	4	.....	w.	0	0	d. clouds	
Jubbulpore	28.54	724 8	29.88	759.0	85.8	29.9	30	nw.	4.0	1.8	.....	.....	7	.....	nw.	0	0	gloomy	
Lucknow	29.58	751.2	29.97	761.2	67.3	19.6	72	calm	2.0	0.9	.....	.....	6	.....	.....	0	0	d. clouds	
Allahabad	29.63	752.6	29.95	760.7	71.8	22.1	54	ene.	4.0	1.8	.....	.....	7	w.	.....	0	0	d. clouds	
Patna	29.83	757.6	30.02	762.5	68.4	20.2	65	nne.	3.2	1.4	.....	.....	10	nne.	nne.	0	0	overcast	
Hazaribagh	27.93	709.3	29.97	761.2	71.1	21.7	37	nne.	6.2	2.8	.....	.....	5	.....	w.	0	0	d. clouds	

STATIONS.	Barometer: Corrected for instrumental error and for temperature		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Cuttack	29.86	758.4	29.94	760.5	82.9	28.3	43	ssw.	4.0	1.8			0			0	0	blue sky	
Calcutta, Alipore	29.93	760.2	29.95	760.8	77.5	25.3	54	sw.	2.0	0.9			0			0	0	blue sky	
Dhubri	29.84	758.0	29.97	761.1	72.5	22.5	54	calm	0.5	0.2			0			0	0	blue sky	
Chittagong	29.88	759.0	29.98	761.4	71.1	21.7	52	calm	3.3	1.5			0			0	0	blue sky	
Sibsagar	29.65	753.0	30.00	761.9	64.8	18.2	74	ne.	2.0	0.9			0			0	0	blue sky	
Jeypore	28.42	721.8	29.88	759.0	72.6	22.6	64	s.	4.7	2.1			4		s.	0	0	d. clouds	
Bellary	28.42	721.8			88.6	31.4	19	se.	8	3.6			0			0	0	blue sky	
Trichinopoly	29.66	753.4			87.2	30.7	35	ene.	1	0.4			0			0	0	blue sky	
ITALIAN.																			
Udine	29.84	757.9	30.26	768.7	40.6	4.8	47	se.	2.5	1.1			0			0	0		Prof. Giovanni Clodig.
Milan	29.73	755.2	30.27	768.8	42.8	6.0	64	ne.	7.4	3.3			9		nw.	0	0		Prof. Schiapparelli.
Padua	30.14	765.6	30.26	768.5	41.4	5.2	48	ene.	5.0	2.5			10		n.	0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.32	744.6	30.26	768.5	40.8	4.9	73	ne.	2.5	1.1			10		n.	0	0		Prof. F. F. Denza.
Genoa	29.98	761.6	30.18	766.6	48.0	8.9	47	n.	8.0	3.6			10		sw.	0	0		Prof. G. M. Garibaldi.
Mondovi	28.28	718.3	30.28	769.2	37.0	2.8	84	w.			2		9			0.276	7.0		Prof. D. G. Bruno.
Pesaro	30.15	765.7	30.20	767.0	41.7	5.4	66	ne.	24.2	10.8			6			0	0		Prof. Luigi Guidi.
Florence	29.93	760.1	30.19	766.7	40.8	8.2	41	nne.			4		0			0	0		Prof. Cosantino Pittei.
Leghorn	30.03	762.7	30.11	764.9	49.1	9.5	46	e.	10.5	4.7			3		nw.	0	0		Prof. P. Monte.
Rome	29.90	759.4	30.08	763.9	51.8	11.0	39	n.	9.4	4.2			0			0	0		Prof. P. Tachini.
Lecce	29.80	757.0	30.06	763.6	49.8	9.9	73	sw.	6.3	2.8			10		s.	0.134	3.4		Prof. C. de Giorgi.
Cosenza	29.15	740.5	30.06	763.6	48.9	9.4	74	wnw.	4.9	2.2			5		nw.	0	0		Prof. D. Conti.
Cagliari	29.90	759.5	30.10	764.5	55.4	13.0	49	nw.			2		0			0.118	3.0		Prof. A. Pacinotti.
Palermo	29.79	756.6	30.04	763.1	54.9	12.7	72	n.	1.8	0.8			7		n.	0	0		Prof. G. Caccialore.
Syracuse	29.87	758.7	29.91	759.8	53.2	11.8	73	ne.	25.5	11.4			10		nne.	0.366	9.3		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.50	749.3	30.04	762.9	50.9	10.5	55	ne.	8.7	3.9			8		n.	0	0		Prof. F. Brioschi.
Stelvio	22.07	560.6			14.4	— 9.8	58	sw.			2		0			0	0	clear	Prof. P. F. Denza.
Valdobbia	22.10	561.3			17.4	— 8.1	77	se.			2		8			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.15	765.8	30.18	766.6	37.0	2.8	74	se.			2		10 ck			0.008	0.2	cloudy	H. Hattori.
Awomori	30.15	765.8	30.19	766.8	22.7	— 5.2	76	se.	4.8	2.1		0	3 ck			0	0	fair	K. Ogawa.
Hakodate	30.19	766.7	30.20	767.1	33.0	0.6	94	ese.	21.0	9.4			10		se.	0	0	overcast	
Hamamatsu	30.20	767.1	30.23	767.8	46.4	8.0	93	calm			0		10 s			0.067	1.7	overcast	
Kagoshima	30.10	764.5	30.11	764.8	55.7	13.2	96	calm			0		10 n			0.630	16.0	light rain	G. Miyanonaza.
Kioto	30.01	762.2	30.19	766.8	42.6	5.9	90	nnw.	1.7	0.7			10 n			0.334	8.5	light rain	M. Tojima.
Kochi	30.14	765.5	30.16	766.0	50.1	10.1	93	nw.	6.1	2.7			10			0.748	19.0	overcast	K. Kusunose.
Miasaka	30.10	764.6	30.13	765.3	53.1	11.7	99	calm			0		10 n		sw.	0.382	9.7	raining	K. Masusaki.
Nagasaki, I. M. Obs'y	29.89	759.1	30.09	764.4	52.5	11.4	96	calm	0	0			10 n			0.210	5.3	light rain	S. Takehayashi.
Niigata	30.14	765.5	30.18	766.6	40.1	4.5	83	sse	2.1	0.9			10 ck		w.	0.030	0.8	covered	M. Morita.
Nobira	30.22	767.5	30.23	767.9	33.8	1.0	84	ne.	1.3	0.6		10 ck	0			0	0	overcast	H. Midzushima.
Numazu	30.20	767.1	30.24	768.1	40.9	4.9	93	calm			0		10 ks		sw.	0.055	1.4	cloudy	R. Kaneda.
Osaka	30.16	766.1	30.18	766.5	43.9	6.6	90	ne.	13.1	5.8			10 n		w.	0.330	8.4	light rain	H. Omura.
Sakai	30.11	764.7	30.12	765.0	45.9	7.7	93	w.			2		10 s		wsw.	0.177	4.5	cloudy	K. Yamawchi.
Sumporo					31.0	— 0.6	85	se.	18.5	8.2			10			0	0	covered	
Tokei Obs'y, Yeddo	30.19	766.7	30.26	768.7	37.7	3.2	85	nnw.	3.5	1.5			10 s			0.021	0.5	cloudy	The Staff.
Wakayama	30.12	765.0	30.17	766.4	44 6	7.0	92	calm	0	0			10 n			0.457	11.6	raining	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.61	752 1	29.79	756.7	81.5	27.5	65	se.	16.5	7.4		1 c;ck	2 k	ssw.	sse.	0.21	5.3	fair	Oliver & Figon.
MEXICAN.																			
Altata					46.5	8.1	81	nw.										clear	H. Diaz Pena.
Guanajuato	23.68	601.4	29.90	759.4	53.4	11.9	85	ene.	inap.	inap.		10 c	10 kn	w.	sw.	0.074	1.9	very cloudy	Prof. Vicente Fernandez.
Leon	24.31	617.5	30.05	763.3	52.5	11.4	94	ene.			1	0	9 ck;k		sw.	0.244	6.2	very cloudy	Prof. M. Leal.
Mazatlan	29.73	755.0	29.99	761.8	54.0	12.2	43	nnw.	5.3	2.3		0	0			0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.10	586.8	30.24	768.1	49.1	9.5	80	calm	0	0		0	8 kn		sw.	0.004	0.1	raining	The Staff.
Morelia	24.34	618.3	30.31	769.8	52.7	11.5	68	se.			2	3 c	5 k	e.	e.	inap.	inap.	½ cloudy	M. Tena, M. D.
Pabellon	23.94	607.9	29.97	761.1	55.0	12.8	73	calm	0	0		0	2 ks		sw.	0	0	clear	
Puebla, Catholic Institute	23.38	593.9	30.15	765.9	50.2	10.1	87	calm	0	0			10		s.	0	0	covered	Prof. P. Spina.
Zacatecas	22.52	571.9	30.25?	769.47	48.07	7.2?	71	ese.	8.0	3.5		2 c	2 ks	s;	se.	0	0		J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.06	763.6	30.06	763.6	42.4	5.8		sse.			4					0	0		
Groningen	30.11	764.7	30.16	766.1	37.9	3.3		se.			2					0	0		
Helder																0.118	3.0		
Helleveotsluis	30.09	764.2	30.09	764.2	42.6	5.9	80	sse.			2					0	0		
Utrecht	30.09	764.2	30.13	765.4	42.8	6.0	76	sse.			2		8			0.031	0.8	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.68	758.9			79.9	26.6	85	nw.	0.5	0.2			2			0.16	4.		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.10	764.5	30.16	766.1	41.4	5.2	40	s.	20	9			4			0	0		
Brono	30.13	765.4	30.17	766.4	41.4	5.2	48	sse.			4		0			0	0		
Christiania	30.29	769.3	30.45	773.3	30.9	— 0.6	68	e.	11	5			1			0.008	0.2		
Gjæsvær	30.11	764.9	30.14	765.5	41.0	5.0		calm			0		10						
Lodingen	30.13	765.4	30.18	766.6	39.7	4.3	65	calm			0		1			0	0		
PORTUGUESE.																			
Angra, Azores	30.30	769.6	30.46	773.7	53.6	12.0	83	ene.	14.3	6.4			8			0	0		Dr. J. A. Sampaio.
Campo Major	29.25	743.1	30.28	769.0	54.0	12.2	77	wnw.	1.8	0.8			8			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.26	768.5	30.34	770.7	63.5	17.5	66	se.	3.8	1.7			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.99	761.7	30.30	771.1	52.9	11.6	89	calm	1.3	0.6			10			0.008	0.2		The Staff
Ponta Delgada, Azores	30.37	771.4	30.44	773.2	54.3	12.4	83	ne	6.9	3.1			10			0.154	3.9	light rain	
Saint Paul de Loando	29.58	751.4	29.78	756.5	82.2	27.9	82	wnw.	0.7	0.3			10			0	0		
Serra da Estrella	25.45	646.5	30.28	769.0	42.8	6.0	69	w.	11.9	5.3			7			0	0		
RUSSIAN.																			
Akmolinski	29.12	739.7	30.32	770.2	5.0	—15.0	91	sw.	11	5		0	7 kn			inap.	inap.		Major K. Lasarew.
Archangel	30.45	773.3	30.47	773.8	30.6	— 0.8	85	nnw.	13	6		0	8 ks			0	0		Capt. Sselliwerstow.
Ashurada	30.52	775.2	30.43	772.8	40.6	4.8	94	sse.	9	4			10 n			0	0		
Astrakhan	30.70	779.7	30.61	777.0	21.2	— 6.0	61	e.	7	3			0			0	0		Capt. Wisganow.
Baku	30.53	775.4	30.48	774.2	35.4	1.9	75	ese.	9	4		0	8 ks			0	0		
Barnaul	29.72	755.0	30.28	769.0	6.6	—14.1	84	sw.	18	8			10			0.150	3.8		Meteorological Obs'y.
Bielosersk	30.13	765.4	30.65	778.5	12.7	—10.7	100	wnw.	7	3			10 s			0	0		
Dorpat	30.53	775.4	30.80	782.3	14.2	— 9.9	71	ese.	2	1		0	0			0	0		Observatory.
Ekaterinburg	29.19	741.5	30.23	767.8	18.9	— 7.3	81	wnw.	7	3			10			0.008	0.2	snowing	Meteorological Obs'y
Elisawetgrad	30.07	763.7	30.57	776.4	11.7	—11.3	77	ne.	11	5		2 cs	0			0	0	light clouds	
Irkutsk	28.43	722.1	30.28	769.1	—5.4	—20.8	80	calm			0		8			0	0		
Kasalinsk	29.92	759.9	30.10	764.4	9.7	—12.4	70	calm	0	0		0	2s						
Kasan	30.18	766.5	30.48	774.1	12.9	—10.6	66	w.	18	8		0	0			0.004	0.1		Observatory.
Kem	30.52	775.1	30.57	776.4	28.8	— 1.8	86	w.	9	4		0	0			0	0		
Kertch	30.29	769.3	30.31	769.8	25.5	— 3.0	78	ene.	4	2		0	8 n			0	0		Lagorio & Sastyres.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Kieff	29.90	759.4	30.61	777.5	8.6	—13.0	88	ene.	4	2	.....	0	0	.....	.....	0	0	.....	Observatory.
Koslov	30.13	765.3	30.71	780.1	12.7	—10.7	80	ssw.	2	1	.....	.....	0	.....	.....	0	0	.....	
Libau	30.66	778.7	30.68	779.3	32.0	0.0	37	se.	7	3	.....	.....	0	.....	.....	0	0	.....	**E. Quass.**
Lugan	30.36	771.1	30.56	776.3	13.5	—10.3	70	e.	13	6	.....	.....	5	.....	.....	inap.	inap.	light clouds.	Meteorological Obs'y.
Moscow	30.16	766.1	30.69	779.6	17.1	— 8.3	46	nw.	1.1	0.5	.....	0	0	.....	.....	0	0	.....	**Meteorological Obs'y**
Nikolaiev	30.37	771.3	30.44	773.2	19.8	— 6.8	73	ene.	13	6	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.83	757.7	29.92	759.9	8.2	—13.2	88	calm	0	0	.....	.....	10	.....	.....	0.012	0.3	.....	**Iwanow.**
Pekin, China	30.24	768.1	30.39	771.9	32.7	0.4	37	nw.	11	5	.....	0	0	.....	.....	0	0	.....	**Physical Observatory.**
Petro-Alexandrovsk	30.15	765.7	30.53	775.4	25.2	— 3.8	36	calm	0	0	.....	0	3 s	.....	.....	0	0	.....	
Petrozavodsk	30.41	772.4	30.62	777.8	19.8	— 6.8	94	nw.	16	7	.....	.....	10	.....	.....	0.028	0.7	light clouds.	**Dr. Bergmann.**
Pinsk	30.08	763.9	30.61	777 5	26.6	— 3.0	53	ne.	9	4	.....	0	0	.....	.....	0	0	.....	
Poti	30.20	767.0	30.22	767.5	49.3	9.6	64	e.	4	2	.....	0	5 s	.....	.....	0	0	.....	
St. Petersburg	30.73	780.6	30.75	781.0	17.6	— 8.0	94	nw.	7	3	.....	.....	10 n	.....	.....	inap.	inap.	light clouds.	Central Physical Obs'y.
Samarkand	27.89	708.4	30.58	776.8	18.1	— 7.7	67	n.	3.4	1.5	.....	0	7 k	.....	.....	.....	.....	.....	
Semipalatinsk	29.75	755.6	30.48	774.2	1.4	—17.0	84	sw.	4	2	.....	.....	10	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	30.02	762.6	30.26	768.6	36.5	2.5	89	ssw.	7	3	.....	.....	10 n	.....	.....	0	0	heavy clouds	
Staroi Bykhov	30.23	767.9	30.74	780.7	16.3	— 8.7	46	ne.	4	2	.....	.....	.....	.....	.....	0	0	.....	
Tashkend	28.78	731.1	30.62	777.7	19.8	— 6.8	54	se.	7	3	.....	0	1 k	.....	.....	0	0	.....	**Terch, A. M.**
Tiflis	29.00	736.6	30.52	775.2	28.2	— 2.1	73	se.	2	1	.....	.....	10	.....	.....	.....	.....	light snow...	Physical Observatory.
Verner	27.76	705.0	30.52	775.1	10.2	—12.1	68	ne.	9	4	.....	4 cs	0	.....	.....	.....	.....	.....	
Viatka	29.65	753.1	30.34	770.5	13.6	—10.2	.....	w.	4	2	.....	.....	10	.....	.....	0.051	1.3	.....	
Vladivostock	30.02	762.5	30.09	764.2	21.9	— 5.6	65	nw.	2	1	.....	.....	10 n	.....	.....	0	0	.....	
Warsaw	30.10	764.4	30.55	775.9	27.3	— 2.6	40	n.	13	6	.....	0	0	.....	.....	0	0	.....	Astronomical Obs'y.
Wilna	30.27	768.8	30.72	780.4	22.6	— 5.2	43	calm	0	0	.....	.....	0	.....	.....	0	0	.....	**Berg, Assistant.**
Yeniseisk	29.77	756.2	30.11	764.7	—21.8	—29.9	76	w.	4	2	.....	.....	0	.....	.....	blank	blank	.....	**M. O. Marks.**
Scottish.																			
Monach Lt	.....	.....	29.96	761.0	47	8.3	92	w.	.....	.....	3	3	0	nw.	.....	0	0	clear	J. Youngclause
North Unst	.....	.....	29.89	759.2	.....	.....	.....	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	**Robt. Burnet.**
Spanish.																			
Barcelona, Met. Obs'y	30.12	765.0	30.23	767.8	55.0	12.8	68	sw.	5.1	2.3	.....	1 cs	0	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.27	768.8	30.33	770.3	51.8	11.0	84	nw.	2.9	0.9	.....	.....	10	.....	.....	0.016	0.4	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.26	692.4	30.30	769.7	46.8	8.2	76	w.	6.7	3.0	.....	0	7	.....	.....	0.406	10.3	cloudy	Domingo Martin.
Madrid, Royal Obs'y	28.00	711.3	30.29	769.3	51.1	10.6	60	sw.	3.8	1.7	.....	.....	9	.....	.....	0	0	almost cov'd	The Staff.
Murcia, Met. Obs'y	30.07	763.7	30.21	767.3	69.1	20.6	53	wsw.	0.9	0.4	.....	1	2	e.	.....	0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.45	747.9	30.34	770.7	45.5	7.5	92	e.	1.8	0.8	.....	2 c	2 kn	w.	w.	0.417	10.6	.....	**Prof. L. G. Frades.**
Santiago, Met. Obs'y	29.35	745 4	30.26	768.7	49.1	9.5	78	n.	4.9	2.2	.....	.....	9	.....	.....	0.315	8.0	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.98	761.6	30.04	763.0	76.5	24.7	71	e.	4.4	2.0	.....	.....	k	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.19	766.9	30.29	769.5	60.1	15.6	79	wnw.	5.7	2.5	.....	0	1	.....	n.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.05	763.2	30.14	765.5	75.2	24.0	84	e.	9.4	4.2	.....	2 s	2 k	e.	ne.	0.020	0.5	clear	**Enrique Gadea, Chf Eng'r**
Swedish.																			
Haparanda	30.54	775.7	30.58	776.7	29.8	— 1.2	100	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Umea	30.54	775.8	30.60	777.1	31.3	— 0.4	96	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Hernosand	30.50	774.6	30.55	775.9	32.4	0.2	89	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Stockholm	30.44	773.1	30.61	777.6	32.7	0.4	66	wsw.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Wisby	30.55	775.9	30.61	777.4	33.8	1.0	68	sse.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.52	775.2	30.61	777.4	23.0	— 5.0	100	sse.	5.8	2.6	.....	.....	1	SSW	sw.	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	28.72	729.4	30.18	766.5	43.5	6.4	66	n.	.....	.....	1	.....	6	.....	.....	0	0	cloudy	**The Observatory.**
Turkish.																			
Constantinople	.....	.....	30.30	769.6	34.5	1.4	87	n.	17	7.5	.....	.....	10	.....	n.	.....	.....	light snow	The Observatory.
Valona	.....	.....	30.11	764.9	48.6	9.2	.....	ne.	.....	.....	1	.....	10	.....	.....	6.31	8.	rainy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.08	764.0	63.1	17.3	62	w.	.....	.....	1	.....	1 ks	.....	s.	0.065	1.6	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**Fred L. Kingsbury.**
United States.																			
Albany, New York	30.41	772.4	30.50	774.7	23	— 5.0	57	nw.	12	5.4	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. O. Barnes.
Alpena, Michigan	29.81	757.2	30.52	775.2	12	—11.1	80	sw.	2	0.9	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.28	642.1	30.38	771.6	12	—11.1	50	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27 35	694 7	30.39	771.9	30	— 1.1	71	sw.	24	10.7	.....	.....	10 n	.....	sw.	inap.	inap.	light snow	B. O. Lenoir.
Atlanta, Georgia	29.10	739.1	30.32	770.1	37.0	2.8	100	nw.	16	7.2	.....	.....	10 n	.....	nw.	0.68	17.3	light rain	H. C. Smyth.
Atlantic City, New Jersey	30.43	772.9	30.44	773.2	32	0.0	88	n.	16	7.2	.....	.....	10 n	.....	.....	0.14	3.6	sleeting	Jas. M. Watson.
Augusta, Georgia	30.08	764.0	30.28	769.1	65	18.3	84	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	John Healy.
Baltimore, Maryland	30.46	773.7	30.51	774.9	34	1.1	78	n.	7	3.1	.....	.....	10 n	.....	.....	0.31	7.9	light snow	Geo. W Felger.
Barnegat, New Jersey	30.43	772 9	30.45	773.4	30.0	— 1.1	88	n.	22	9.8	.....	.....	10 n	.....	n.	0.12	3.0	light snow	G. A. Hill.
Behring Id., Behring Sea	30.18	766.6	30.20	767.1	22.3	— 5.4	.....	w.	13	5.8	.....	o	2 k	.....	w.	inap.	inap.	clear	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.77	730.7	30.50	774.7	0	—17.8	72	calm	0	0	.....	0	3 s	.....	.....	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.40	695 9	30.40	772.1	36	2.2	58	sw.	27	12.1	.....	.....	10 s	.....	sw.	0	0	cloudy	S. Wheaton.
Billings, Montana	27.10	688.3	.....	.....	24	— 4.4	88	w.	20	8.9	.....	2 c	8 s	w.	nw.	0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.43	722.1	30.41	772.4	11	—11.7	64	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.37	771.4	30.40	772.1	31	— 0.6	78	n.	22	9.8	.....	.....	10 s	.....	.....	0.16	4.1	cloudy	J. T. Elker.
Boise City, Idaho	27.08	703.1	30.64	778.2	22	— 5.6	88	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	30.22	767.6	30.38	771.6	27.0	— 2.8	88	nw.	14	6.3	.....	.....	10 n	.....	.....	inap.	inap.	light snow	O. B. Cole.
Brownsville, Texas	30.51	774.9	30.56	776.2	32.0	0.0	88	n.	16	7.2	.....	.....	10 n	.....	n.	0.09	2.3	light rain	M. McCarty.
Buffalo, New York	29.77	756.1	30.57	776.5	18.5	— 7.5	84	w.	7	3.1	.....	.....	10 s	.....	sw.	0.06	1.5	cloudy	W. Finn.
Buford, Fort, Dakota	28.26	717.8	30.44	773.2	6	—14.4	76	w.	1	0.4	.....	0	4 s	.....	.....	0	0	fair	F. A. Mellen.
Burlington, Vermont	30.16	766.1	30.47	773.9	16.3	— 8.7	75	n.	9	4.0	.....	1 cs	9 s	w.	w.	0.01	0.3	cloudy	D. N. Farnell.
Cairo, Illinois	30.36	771.1	30.78	781.8	18.0	— 7.8	67	n.	21	9.4	.....	hz.	4 s	.....	n.	0.16	4.1	fair	W. H. Ray.
Cape Henry, Virginia	30.39	771.9	30.41	772.4	39	3.9	100	nw.	25	11.2	.....	.....	10 n	.....	.....	0.25	6.3	heavy rain	A. K. Alderson.
Cape May, New Jersey	30.46	773.7	30 49	774.4	32.0	0.0	78	n.	23	10.3	.....	.....	10 s	.....	n.	0.26	6.6	cloudy	W. E. Smith.
Cape Mendocino, California	29.81	757.2	30.51	774.9	43	6.1	68	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.23	767.8	30.25	768.3	72	22.2	84	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.89	759.2	30.76	781.3	11.5	—11.4	60	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.19	766.8	30.25	768.3	64	17.8	90	sw.	6	2.7	.....	4 c	0	w.	.....	0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.45	748.0	30.34	770.6	46.0	7.8	100	ne.	13	5.8	.....	.....	10 n	.....	ne.	2.24	56.9	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.63	752.6	30.49	774.4	34.0	1.1	74	nw.	14	6.3	.....	.....	10 s	.....	n.	0.20	5.1	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.29	617.0	30.54	775.7	25.8	— 3.4	39	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.97	761.2	30.72	780.3	9.9	—12.3	64	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.37	771.4	30.39	771.9	37	2.8	82	n.	31	13.9	.....	.....	10 s	.....	n.	0.42	10.7	cloudy	C. F. Dickens.
Cincinnati, Ohio	30.01	762.2	30.70	779.8	20	— 6.7	70	n.	10	4.5	.....	.....	10 s	.....	nw.	0	0	cloudy	R. B. Watkins.
Cleveland, Ohio	29.85	758.2	30.64	778.2	16.3	— 8.7	95	nw.	9	4.0	.....	.....	10 n	.....	.....	inap.	inap.	light snow	J. B. Newlin.
Coleman City, Texas	28.82	732.0	30.70	779.8	22	— 5.6	73	n.	16	7.2	.....	0	6 s	.....	n.	0	0	fair	L. Dorman.
Columbus, Ohio	29.75	755.6	30.65	778.5	22	— 5.6	73	nw	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.70	729.0	30.72	780.3	22.0	— 5.6	61	n.	14	6.3	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Davenport, Iowa	30.04	763.0	30.74	780.8	11	—11.7	61	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.56	649.2	30.52	775.2	15	— 9.4	56	n.	16	7.2	.....	.....	10 s	.....	e.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.73	729.7	30.54	775.7	32	0.0	88	sw.	3	1.3	.....	.....	10 s	.....	.....	0.17	4.3	cloudy	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.60	650.2	30.52	775.2	20	— 6.7	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.42	772.7	30.44	773.2	35	1.7	89	n.	27	12.1	.....	.....	10 ks	.....	n.	0.25	6.3	cloudy	T. S. Townsend.
Denison, Texas	29.91	759.7	30.75	781.0	19.0	— 7.2	84	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Denver, Colorado	25.04	636.0	30.56	776.2	21.0	— 6.1	64	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.77	756.1	30.74	780.8	3	—16.1	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.89	759.2	30.64	778.2	19.0	— 7.2	84	w.	7	3.1	.....	0	9 k	.....	w.	inap.	inap.	cloudy	E. R. Brace.
Dodge City, Kansas	27.98	710.7	30.72	780.3	15	— 9.4	67	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	V. P. Temple.
Dubuque, Iowa	29.97	761.2	30.73	780.5	4	—15.6	47	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.69	754.1	30.50	774.7	— 5	—20.6	62	s.	8	3.6	.....	0	8 s	.....	.....	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.86	758.4	30.70	779.8	35.9	1.7	53	n.	10	4.5	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	F. Belford.
Eagle Rock, Idaho	25.78	654.8	30.68	779.3	4	—15.6	79	n.	4	1.8	.....	6 cs	0	w.	.....	0	0	fair	J. M. Clifford.
Eastport, Maine	30.23	767.8	30.30	769.6	19.0	— 7.2	76	nw.	17	7.6	.....	.....	10 s	.....	nw.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.78	705.6	30.68	779.3	12	—11.1	46	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
El Paso, Texas	26.69	677.9	30.57	776.5	19.0	— 7.2	70	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.82	757.4	30.58	776.7	23	— 5.0	88	nw.	1	0.4	.....	.....	10 s	.....	nw.	0.01	0.3	cloudy	Peter Wood.
Escanaba, Michigan	29.84	757.9	30.56	776.2	— 2.0	—18.9	83	sw.	7	3.1	.....	0	hz.	.....	.....	0	0	clear	George Heathcote.
Fredericksburg, Texas	28.82	732.0	30.62	777.7	25	— 3.9	76	n.	12	5.4	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	Frank Halwegler.
Galveston, Texas	30.47	773.9	30.52	775.2	33	0.6	78	n	39	17.4	.....	0	9 ks	.....	ne.	0.20	5.1	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.95	760.7	30.66	778.7	15.0	— 9.4	83	w.	12	5.4	.....	0	9 ks	.....	w.	0.02	0.5	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.44	646.2	30.30	769.6	24	— 4.4	53	s.	31	13.9	.....	0	0	.....	.....	0	0	clear	Robert O. Lord.
Hatteras, North Carolina	30.26	768.6	30.28	769.1	48	8.9	93	ne.	26	11.6	.....	.....	10 s	.....	ne.	0	0	threatening	R. M. Crawford.
Helena, Montana	26.07	662.2	30.47	773.9	25	— 3.9	64	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. C. Smith.
Henrietta, Texas	29.71	754.6	30.76	781.3	17	— 8.3	83	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Huron, Dakota	28.99	736.3	30.51	774.9	2	—16.7	59	se.	9	4.0	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.86	758.4	30.72	780.3	15	— 9.4	67	n.	5	2.2	.....	0	0	.....	.....	0.01	0.3	clear	C. F. R. Wappenhans.
Indianola, Texas	30.51	774.9	30.54	775.7	31.1	— 0.5	78	n.	20	8.9	.....	.....	10 s	.....	.....	0.30	7.6	cloudy	I. A. Reed.
Jacksboro, Texas	29.50	749.3	30.74	780.8	18	— 7.8	53	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Jacksonville, Florida	30.22	767.6	30.27	768.8	70	21.1	90	s.	2	0.9	.....	3 cs	0	w.	.....	0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.74	704.6	30.42	772.7	13	—10.6	66	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Keokuk, Iowa	30.08	764.0	30.78	781.8	12.5	—10.8	80	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.15	765.8	30.17	766.3	74.0	23.3	83	e.	12	5.4	.....	0	5 ks	.....	e.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.32	770.1	30.34	770.6	42	5.0	96	ne.	36	16.1	.....	.....	10 n	.....	ne.	0.06	1.5	light rain	H. Mc P. Baldwin.
Knoxville, Tennessee	29.45	748.0	30.53	775.4	29.5	— 1.4	96	n.	9	4.0	.....	.....	10 n	.....	n.	0.64	16.3	sleeting	J. A. Cody.
La Crosse, Wisconsin	29.83	757.7	30.67	779.0	0	—17.8	65	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.86	758.4	30.80	782.3	15	— 9.4	83	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.73	755.1	30.60	777.2	36.0	2.2	69	ne.	8	3.6	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	W. Bell.
Little Rock, Arkansas	30.39	771.9	30.72	780.3	23	— 5.0	73	n.	4	1.8	.....	0	0	.....	.....	0.09	2.3	clear	W. U. Simons.
Los Angeles, California	30.00	762.0	30.40	772.1	47	8.3	48	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	30.09	764.3	30.68	779.3	19	— 7.2	76	n.	11	4.9	.....	.....	10 s	.....	n.	0.05	1.3	cloudy	L. M. Dey.
Lynchburg, Virginia	29.70	754 4	30.42	772.7	39	3.9	82	ne.	8	3.6	.....	.....	10 n	.....	ne.	0.55	14.0	light rain	Louis Duane.
Mackinaw City, Michigan	29.82	757.4	30.52	775.2	5.0	—15.0	76	w	8	3.6	.....	8 ck	0	w.	.....	0	0	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.28	769.1	30.28	769.1	50.0	10.0	100	ne.	18	8.0	.....	.....	10 s	.....	ne.	0	0	cloudy	William Daly.
Madison, Wisconsin	29.60	751.8	30.69	779.5	3	—16.1	72	w	6	2.7	.....	0	0	.....	.....	0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.71	653.0	30.25	768.3	32	0.0	34	w.	24	10.7	.....	10 k	0	w.	.....	0	0	cloudy	F. Burke.
McKavett, Fort, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thatcher.
Marquette, Michigan	29.69	754.1	30.47	773.9	3	—16.1	47	w.	16	7.2	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	30.34	770.6	30.09	779.5	22	— 5.6	100	n.	16	7.2	.....	.....	10 s	.....	.....	0.28	7.1	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.90	759 4	30.70	779.8	5	—15.0	76	w.	11	4.9	.....	0	0	.....	.....	0	0	clear	W. Line.
Missoula, Fort, Montana	27.11	688.6	30.54	775.7	22	— 5.6	73	s.	1	0.4	.....	.....	10 n	.....	.....	0.03	0.8	light snow	I. H. Young.
Mobile, Alabama	30.30	769.6	30.34	770.6	39	3.9	89	n.	18	8.0	.....	.....	10 n	.....	n.	1.00	25.4	light rain	C. A. Read.
Montgomery, Alabama	30.12	765.0	30.30	771.1	40	4.4	88	nw.	12	5.4	.....	.....	10 s	.....	n.	1.16	29.5	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.34	745.2	30.44	773.2	— 2	—18.9	100	s.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.56	750.8	30.63	778.0	29.0	— 1.7	80	n.	8	3.6	.....	.....	10 s	.....	e.	0.51	13.0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.51	597.1	30.13	765.3	— 9.0	—22.8	100	nw.	66	29.6	.....	.....	fg.	.....	nw.	0	0	dense fog	S. W. Beall.
Nashville, Tennessee	30.03	762.7	30.04	778.2	22.0	— 5.6	80	n.	12	5.4	.....	.....	10 ks	.....	n.	0.38	9.7	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.32	770.1	30.44	773.2	23.5	— 4.7	78	nw.	11	4.9	.....	.....	10 n	.....	nw.	0.03	0.8	light snow	J. H. Sherman.
New London, Connecticut	30.40	772.1	30.45	773.4	25	— 3.9	100	n.	10	4.5	.....	.....	10 n	.....	n.	0.03	0.8	light snow	J. G. Lynch.
New Orleans, Louisiana	30.32	770.1	30.38	771.6	43.3	6.3	79	n.	15	6.7	.....	.....	10 s	.....	n.	0.88	22.4	cloudy	L. Dunne.
Newport, Rhode Island	30.34	770.6	30.38	771.6	32.7	0.4	67	nw.	10	4.5	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	W. McGillivray.
New York, New York	30.30	769.6	30.48	774.2	27	— 2.8	94	w.	4	1.8	.....	.....	10 n	.....	.....	0.09	2.3	light snow	J. B. Merrill.
Norfolk, Virginia	30.38	771.6	30.41	772.4	39	3.9	100	n.	16	7.2	.....	.....	10 n	.....	n	0.32	8.1	heavy rain	Wm. Davis.
North Platte, Nebraska	27.52	699.0	30.62	777.7	7.6	—13.6	78	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington Ty.	30.41	772.4	30.45	773.4	36.0	2.2	89	calm	0	0	.....	.....	10 n	.....	.....	0.42	10.7	light rain	J. Dascomb.
Omaha, Nebraska	29.43	747.5	30.70	779.8	13.6	—10.2	71	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Ooglaamie, Alaska	30.33	770.4	30.35	770.9	— 9.2	—22.9	100	ese.	10	4.5	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	P. H. Ray.
Oswego, New York	30.19	766.8	30.54	775.7	17.0	— 8.3	83	nw.	18	8.0	.....	3 k	0	nw.	.....	0.06	1.5	clear	J. G. Linsley.
Palestine, Texas	30.09	764.3	30.67	779.0	24.0	— 4.4	88	n.	10	4.5	.....	7 cs	2 ks	sw.	.....	0.13	3.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.28	769.1	30.31	769.9	45.0	7.2	89	n	12	5.4	.....	.....	10 s	n.	.....	0.34	8.6	cloudy	M. McGauran.
Philadelphia, Pa	30.39	771.9	30.50	774.7	27	— 2.8	88	n.	10	7.2	.....	.....	10 n	.....	.....	0.14	3.6	light snow	E. M. Mattison.
Pike's Peak, Colorado	17.92	455.2	30.84	778 2	13	—10.6	64	ne.	.....	.....	4	0	0	.....	.....	0	0	clear	H. Hall.
Ploche, Nevada	24.41	620.0	30.57	776.5	24	— 4.4	56	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.71	754.6	30.57	776.5	26.0	— 3.3	76	nw.	5	2.2	.....	.....	10 s	.....	nw.	0.11	2.8	cloudy	W. A. Reid.
Poplar River, Montana	28.08	713.2	30.43	772 9	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. O. Maxwell.
Port Eads, Louisiana	30.29	769.4	30.30	769.6	53.3	11.8	95	ne.	31	13.9	.....	.....	10 s	.....	n.	0.52	13.2	cloudy	H. B. Boyer.
Port Huron, Michigan	29.87	758.7	30.00	777.2	13.0	—10.6	83	sw.	3	1.3	.....	0	0	.....	.....	0.01	0.3	clear	W. O. Bailey.
Portland, Maine	30.32	770.1	30.36	771.1	27.5	— 2.5	48	n.	11	4.9	.....	.....	10 s	.....	n	0	0	cloudy	W. W. Eichelberger
Portland, Oregon	30.43	772.9	30.50	774.7	34.2	1.2	89	calm	0	0	.....	.....	10 s	.....	n.	0.03	0.8	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	44.0	6.7	100	ne.	36	16.1	.....	.....	10 n	.....	ne.	0.19	4.8	light rain	F. S. Coburn.
Prescott, Arizona	25.05	636.3	30.41	772.4	20.0	— 6.7	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass.	30.33	770.4	30.36	771.1	31.5	— 0.3	68	n.	18	8.0	.....	.....	10 s	.....	.....	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.22	767.6	30.23	767.8	67.5	19.7	92	e.	7	3.1	.....	0	0	.....	.....	0	0	clear	W. J. Evans.
Red Bluff, California	30.18	766.6	30.55	776.0	37	2.8	72	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	29.84	757.9	30.55	776.0	18	— 7.8	91	nw.	8	3.6	.....	.....	10 n	.....	.....	0.02	0.5	light snow	E. W. McGann
Roseburg, Oregon	29.97	761.2	30.54	775.7	42	5.6	82	n.	1	0.4	.....	.....	10 n	.....	w.	inap.	inap.	light rain	J. J. Nanry.
Sacramento, California	30.48	774.2	30.56	776.2	39.0	3.9	82	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	30.17	766.3	30.81	782.6	15.0	— 9.4	83	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.23	767.8	30.27	768.8	12	—11.1	100	ne.	14	6.3	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt
St. Paul, Minnesota	29.03	752.6	30.57	776.5	— 9.0	—22.8	74	se.	4	1.8	.....	1 cs	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.44	747.8	30.41	772.4	— 5	—20.6	79	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. B Dilley.
Salt Lake City, Utah	26.18	665.0	30.74	780.8	17	— 8.3	50	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.90	759.4	30.62	777.7	30.5	— 0.8	78	n.	16	7.2	.....	.....	10 n	.....	n.	inap.	inap.	sleeting	T. J. Kenan.
San Diego, California	30.25	768.3	30.32	770.1	55.4	13.0	22	ne.	12	5.4	.....	0	0	.....	.....	0	0	clear	A. O. Dobbins.
Sandusky, Ohio	29.93	760.2	30.65	778.5	18	— 7.8	67	nw.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.44	773.2	30.47	773.9	27.0	— 2.8	88	nw.	27	12.1	.....	.....	10 n	.....	.....	0.04	1.0	light snow	B. A. Blundon.
San Francisco, California	30.46	773.7	30.53	775.4	43.5	6.4	83	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.52	597.4	30.00	777.2	15	— 9.4	48	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.10	766.1	30.25	768.3	64.5	18.1	83	sw.	3	1.3	.....	5 c	0	.....	.....	0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.51	673 3	30.36	771.1	35	1.7	55	sw	32	14.3	.....	0	8 s	.....	.....	0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	30.38	771.6	30.03	778 0	26	— 3.3	88	n.	9	4.0	.....	0	2 s	.....	.....	0.00	1.5	clear	E. N. Meekins.
Sill, Fort, Indian Territory	29.50	749.3	30.81	782.6	20.5	— 6.4	75	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.48	621.8	30.33	770 4	13.0	—10.6	61	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Sitka, Alaska	29.55	750.6	29.62	752.3	39.6	4.2	65	e.	10	4.5	.....	.....	10 n	.....	e.	0.21	5.3	light rain	F. W. Fickett.
Smith, Fort, Arkansas	30.28	769.1	30.78	781.8	20.0	— 6.7	70	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.19	766.8	30.23	767.8	61	16.1	100	sw.	12	5.4	.....	0	1 s	.....	.....	inap.	inap.	clear	O. Parker.

STATIONS.	Barometer: Corrected for instrumental error and for temperature. Inch.	Barometer: Corrected for instrumental error and for temperature. Mill.	Barometer: Reduced to sea-level. Inch.	Barometer: Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.43	722.1	30.56	776.2	25	— 3.9	92	nw.	1	0.4	.....	.....	10 n	.....	.....	1.14	29.0	light snow..	H. Clifford.
Springfield, Illinois	30.06	763.5	30.79	782.1	16	— 8.9	74	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	T. B. Jennings.
Springfield, Missouri	29.24	742.7	30.75	781.0	12.0	—11.1	66	n.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	J. H. Bryce.
Starkville, Miss.	30.06	763.5	30.56	776.2	25	— 3.9	92	n.	13	5.8	.....	.....	10 s	.....	n.	0.65	16.5	cloudy.....	C. Dill.
Stevenson, Fort, Dakota	28.38	720.8	30.40	772.1	7	—13.9	80	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	A. Schneider.
Stockton, Fort, Texas	27.55	699 8	30.68	779 3	15	— 9.4	83	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	A. J. Warren.
Thatcher's Island, Mass.	30.33	770.4	30.39	771.9	26.0	— 3.3	88	nw.	23	10.3	.....	.....	10 s	.....	n.	0	0	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.70	703.6	30.53	775.4	30	— 1.1	70	ne.	.....	.....	1	0	0	.....	.....	0	0	clear.....	J. T. Fitzgerald.
Toledo, Ohio	29.88	758.9	30.62	777.7	22	— 5.6	58	w.	5	2.2	.....	1 k	0	w.	.....	inap.	inap.	clear	A. Buell.
Tucson, Arizona	27.81	706.4	30.29	769.4	42	5.6	26	e.	16	7.2	.....	0	0	.....	.....	0	0	clear.....	J. L. Whiteside.
Umatilla, Oregon	30.26	768.6	30.64	778.2	22	— 5.6	87	se.	4	1.8	.....	.....	10 s	.....	.....	0.05	1.3	cloudy.....	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	26	— 3.3	56	nw.	.....	.....	1	0	0	.....	.....	0	0	clear.....	O. L. Pease.
Vicksburg, Mississippi	30.30	769.6	30.57	776.5	28.9	— 1.7	92	n.	9	4.0	.....	.....	10 s	.....	nw.	0.54	13.7	cloudy	James Kenealy.
Visalia, California	30.14	765.5	30.52	775.2	35.3	1.8	84	e.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	O. D. Stewart
Washakie, Fort, Wyoming	24.75	628.6	30.51	774.9	0.9	—17.3	79	se.	1	0.4	.....	2 k	0	.....	.....	0	0	clear.....	T. M. Ambler.
Washington, D. C.	30.39	771.9	30.51	774.9	30.5	— 0.8	100	nw.	6	2.7	.....	.....	10 n	.....	nw.	0.35	8.9	light snow..	B. M. Parsell.
West Las Animas, Colorado	26.48	672.6	30.60	777.2	5	—15.0	64	w.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	F. H. Brandenburg
Williamsport, Pa.	29.89	759.2	30.52	775.2	26	— 3.3	88	n.	8	3.6	.....	.....	10 ks	.....	.....	0.02	0.5	cloudy.....	B. F. Hough.
Wilmington, N. Carolina	30.18	766.6	30.24	768.1	62	16.7	93	sw.	4	1.8	.....	3 c	2 s	.....	.....	0	0	fair.....	Samuel A. Haney.
Winnemucca, Nevada	26.13	663.7	30.65	778.5	20.0	— 6.7	66	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	J. Grover.
Yankton, Dakota	29.10	739.1	30.52	775.2	15	— 9.4	67	calm	0	0	.....	0 s	0	.....	.....	0	0	clear.....	J. H. Atfield.
Yuma, Arizona	30.23	767 8	30.38	771.6	49.1	9.5	30	..	12	5.4	.....	0	0	.....	.....	0	0	clear.....	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.00	558.8	.....	.....	55.0	12.8	72	calm	0	0	.....	.....	10 ks	.....	w.	0	0	cloudy.....	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	74	23.3	80	calm	0	0	.....	0	9 s	.....	e.	0	0	cloudy	Robert Johnston.
Paramaribo, S. A.	29.97	761.2	29.97	761.2	78	25.6	82	e.	.....	.....	2	5 k	8 ks	e.	e.	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.32	744 7	29.88	758.9	78	25.6	89	calm	.....	.....	0	.....	10 ks	.....	calm	inap.	inap.	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75.5	24.2	91	ne.	.....	.....	5	0	0	.....	.....	0	0	clear.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.66	753.4	29.72	754.9	31	— 0.6	78	ne.	.....	.....	3	7 cs	0	.....	.....	0	0	cloudy.....	W. J. Fisher.
St. Thomas, W. I.	30.00	762.0	30.13	765.3	75	23.9	64	e.	.....	.....	.....	1 k	2 k	e.	e.	0	0	clear.	Aug. Wallon.
Havana, Cuba	30.08	764.0	30.14	765.5	71.2	21.8	82	e.	4	1.8	.....	0	2 k	.....	se.	0	0	clear.....	Benito Vines, S. J.
York Factory, B. A.	29.99	761.7	30.06	763.5	—32.0	—35.6	.....	w.	34	15.2	.....	4 k	3 s	w.	w.	0.01	0.3	.....	Fortesque & Wood.

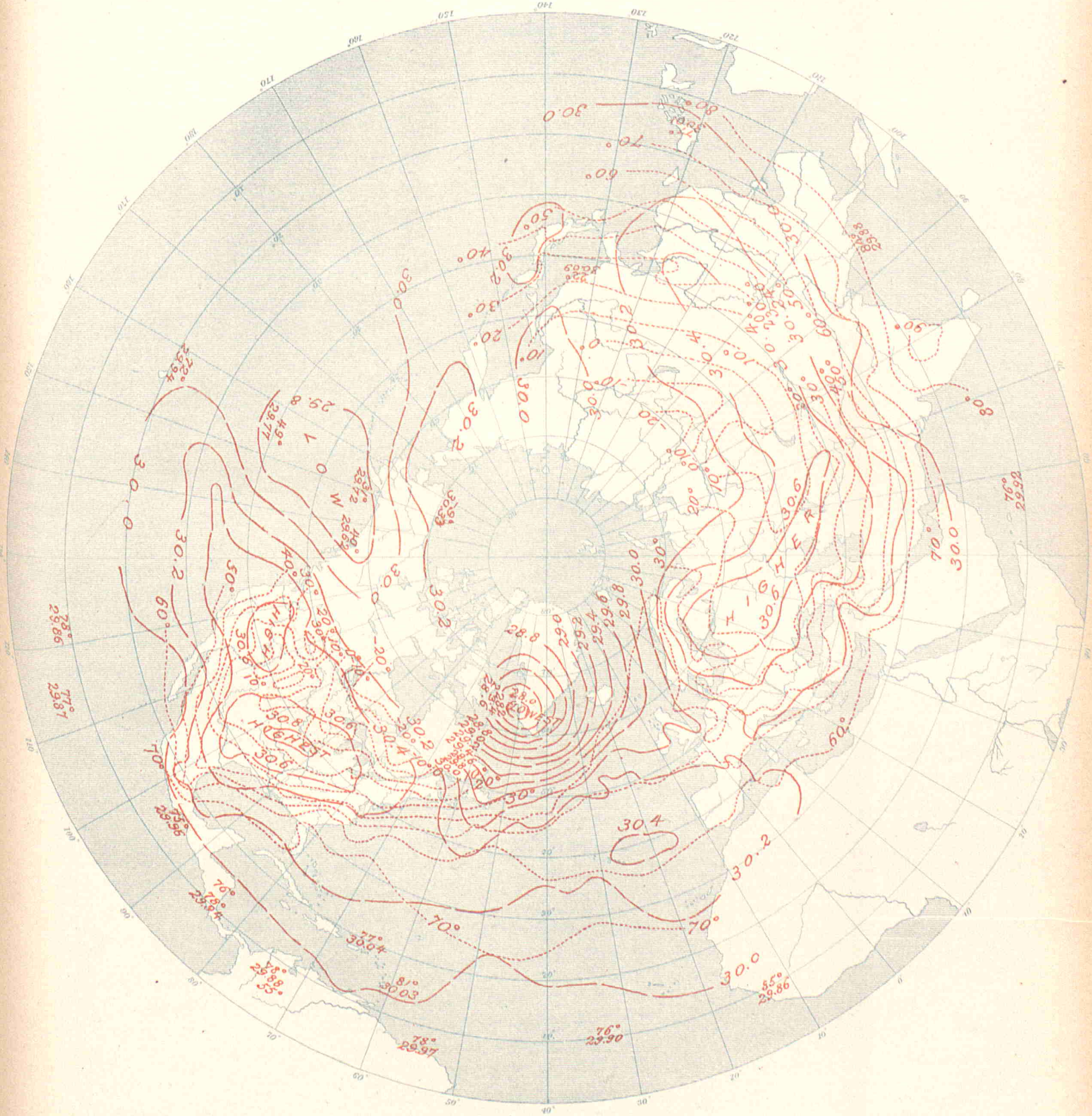
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level. Inch.	Barometer reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Sea-swell. Character.	Sea-swell. Direction from	Weather.
District No. 1—North Atlantic.																		
H. M. S. Condor, N. 35° 51′, E. 14° 58′	29.92	760.0	57	13.9	87	n.	.....	.....	5–6	.....	7	n.	.....	.....	.....	6	nnw.	squally.
H. M. Dock Yard, Bermuda, W. I.	30.29	769.4	66	18.9	94	nnw.	.....	.....	1–2	.....	4	nnw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Dido, N. 28° 32′, W. 65° 11′	30.34	770.6	70	21.1	...	e.	.....	.....	1	.....	4	ne.	.....	.....	.....	1	n.	d. clouds.
H. M. S. Fawn, N. 27° 54′, W. 32° 50′	30.11	764.8	69.5	20.8	73	ene.	.....	.....	3	.....	4	ene.	.....	.....	.....	4	wsw.	d. clouds.
H. M. S. Iron Duke, N. 46° 00′, W. 7° 09′	30.27	768.8	53	11.7	?	n.	.....	.....	3–4	.....	5	nnw.	.....	.....	.....	4	wnw.	squally.
H. M. S. Monarch, Port Said, Egypt	30.06	763.5	71	21.7	57	w.	.....	.....	1	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Minotaur, Vigo Bay, Spain	30.29	769.4	56	13.3	74	nnw.	.....	.....	1	.....	8	w.	.....	.....	.....	.....	.....	d. clouds.
H. M. Frigate, Vanadis, N. 38° 38′, E. 18° 06′	29.97	761.1	50.9	10.5	91	nne.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	raining.
U. S. Navy Yard, Portsmouth, N. H*	30.38	771.6	27	— 2.8	?	nw.	17	7.6	.....	.....	10	.....	n.	0	0	.....	.....	cloudy.
U. S. S. Alliance, Havana, Cuba	30.17	766.3	73	22.8	100	e.	.....	.....	1	.....	2	.....	.....	0	0	.....	.....	clear.
U. S. S. Kearsarge, Cartagena, U. S. C.	29.64	757.9	76	24.4	86	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	.....	fair.
U. S. S. Lancaster, Plymouth, Eng.	30.08	764 0	46	7.8	85	nne.	.....	.....	3	.....	8	.....	ne.	.....	.....	sm'h	.....	fair.
U. S. S. Nipsic, N. 31° 01′, W. 71° 51′	30.35	770.9	71	21.7	75	sw.	.....	.....	1	.....	2	.....	.....	.....	.....	sm'h	.....	fair.
U. S. S. Quinnebaug, Gibraltar, Mediterranean	30.30	769.6	58	14.4	81	nw.	.....	.....	5	.....	8	.....	nw.	.....	.....	sm'h	.....	cloudy.
U. S. S. St. Louis, League Island, Pa.	30.46	773.7	26	— 3.3	100	n.	17.1	7.6	.....	.....	10	.....	n.	0.15	3.8	.....	.....	snowing.
U. S. S. Swatara, Hampton Roads, Va *	30.27	768.8	48	8.9	77	ne.	.....	.....	5–7	.....	10	.....	ne.	.....	.....	.....	.....	rainy.
U. S. S. Tennessee, N. 12° 03′, W. 76° 22′ *	29.87	758.7	77	25.0	90	ene.	50	22.4	.....	.....	2	.....	.....	0	0	r'gh	ene.	fair.
U. S. S. Vandalia, N. 16° 58′, W. 70° 43′ *	30.07	763.8	76	24.4	90	ene.	.....	.....	5	.....	2	.....	e.	.....	.....	r'gh	.....	fair.
U. S. S. Yantic, N. 24° 07′, W. 94° 07′	30.42	772.7	64	17.8	100	nw.	.....	.....	7–9	.....	10	.....	.....	.....	.....	r'gh	nw.	squally.
S. S. Illinois, N. 49° 38′ W. 24° 30′	30.27	768.8	48	8.9	89	wnw	.....	.....	2	.....	5	.....	w.	.....	.....	sm'h	w.	fair.
S. S. Lord Clive, N. 49° 29′, W. 26° 30′	.....	.....	.....	.....	.....	w.	.....	.....	4	.....	8	.....	w.	0	0	long	w.	fine.
S. S. Lord Gough, N. 51° 08′, W. 20° 04′	30.13	765.3	51	10.6	.....	w.	.....	.....	3	.....	5	.....	n.	0	0	mod.	w.	cloudy.
S. S. Ohio, N. 43° 33′ W. 44° 42′ †	30.22	767.6	52	11.1	93	wnw.	.....	.....	5	.....	9	.....	sw.	.....	.....	mod.	wsw.	cloudy.
S. S. Pennsylvania, N. 50° 37′, W. 23° 49†	30.22	767.6	47	8.3	92	nnw.	.....	.....	4	.....	6	.....	nw.	7 h'r	7 h'r	hv'y	nw.	cloudy.
S. S. Circassian, N. 38° 00′, W. 76° 08′*	30.48	774.2	35	1.7	100	n.	.....	.....	5	.....	10	.....	n.	10 h'r	10 h'r	2	n.	showery.
S. S. Nova Scotian, N. 45° 05′, W. 46° 38′	30.21	767.3	39	3.9	.....	ssw.	.....	.....	5	.....	10	.....	wsw.	.....	.....	mod.	ssw.	cloudy.
S. S. Manitoban, Portland, Maine	30.48	774.2	25	— 3.9	.....	nne.	.....	.....	2	.....	3	.....	nne.	0	0	.....	.....	fair.
S. S. Jason, N. 48° 12′, W. 26° 50	30.30	769.6	51.8	11.0	.....	wnw.	.....	.....	7	.....	7 k	.....	.....	.....	.....	8	wsw.	cloudy.
S. S. Stella, N. 49° 47′, W. 6° 00′	30.07	763.8	53.6	12	.....	wnw.	.....	.....	3	.....	4	.....	w.	.....	.....	3	w.	d clouds.
S. S. Alvo, N. 30° 19′, W. 74° 02′	30.35	770 9	69.5	20.8	.....	s.	.....	.....	3	1 ck	0	calm	.....	0	0	long	sse.	clear.
S. S. Alene, N. 38° 12′, W. 74° 00′ *†	30.29	769.4	.....	.....	.....	n.	.....	.....	6	.....	8	.....	n.	24 h'r	24 h'r	long	n.	rainy.
S. S. Ailsa, N. 9° 22′, W. 79° 54′†	30.01	762.2	81	27.2	91	ne.	.....	.....	4	.....	5	.....	ne.	0	0	mod.	ne.	fair.
S. S. Assyria, N. 33° 50′, W. 62° 22′	30.35	770.9	65	18.3	?	sw.	.....	.....	3	.....	.....	.....	sw.	.....	.....	sm'h	.....	clear.
S. S. Bolivia, N. 50° 41′, W. 25° 16′	30.30	769.6	46	7.8	.....	wsw.	.....	.....	2	.....	10	.....	wsw.	.....	.....	mod.	wsw.	overcast.
S. S. Dorian, Boston, Mass	30.42	772.7	30	— 1.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S. S. Landaff City, N. 40° 24′, W. 70° —†	30.31	769.9	30	— 1.1	.....	nw.	.....	.....	5	.....	10	.....	n.	.....	.....	sm'h	.....	cloudy.
S. S. Gallia, N. 43° 43′, W. 46° 21′	30.31	769.9	57	13.9	75	sw.	.....	.....	6	.....	8	.....	wsw.	rain	rain	mod.	wsw.	gloomy.
S. S. Marathon, N. 37° 22′, W. 9° 07′	30.35	770.9	58	14.4	.....	n.	.....	.....	1	.....	4	.....	n.	0	0	sm'h	nw.	fine.
S. S. Canada, N. 49° 54′, W. 8° 00′	30.21	767.4	41.0	5	.....	nw.	.....	.....	4	ck	.....	nw.	.....	.....	.....	r'gh	nw.	sprinkling.
S. S. Pereire, N. 42° 52′, W. 56° 55′ †	30.01	762.3	46.4	8	.....	w.	.....	.....	4	.....	10	.....	nnw.	light	light	r'gh	s.	covered.
S. S. Ville de Marseilles, Santiago de Cuba, W. I†	30.20	767.1	72	22.2	...	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Abyssinia, N. 41° 29′, W. 64° 00′	30.23	767.8	45	7.2	92	nw.	.....	.....	4	.....	10	.....	nw.	1 h'r	1 h'r	sm'h	.....	cloudy.
S. S. Wyoming, N. 46° 45′, W. 40° 00′	.....	.....	34	1.1	.....	ssw.	.....	.....	8	.....	7	.....	w.	4 h'r	4 h'r	r'gh	wsw.	.....
S. S. Bohemia, N. 43° 39′, W. 48° 17′†	30.14	765.5	.....	.....	.....	sw.	.....	.....	6	.....	9 k	.....	.....	0	0	mod.	sw.	overcast.
S. S. Silesia, New York, N. Y †	30.38	771.6	.....	.....	.....	n.	.....	.....	5	.....	10	.....	n.	.....	.....	.....	.....	snowing.
S. S. Vandalia, N. 55° 42′ W. 23° 14′	29.91	759.7	46.4	8.0	89	wsw.	.....	.....	6	.....	8	.....	wsw.	.....	.....	7	wsw.	cloudy.
S. S. City of Berlin, N. 40° 34′, W. 68° 56′	30.31	769.9	37	2.8	71	n.	.....	.....	4	.....	10	.....	wnw.	6 h'r	6 h'r	slt't	n.	hail squalls.
S. S. Bulgarian, N. 44° 24′, W. 53° 45′ *	30.04	763.0	.....	.....	.....	wsw.	.....	.....	2	.....	10	.....	w.	10 h'r	10 h'r	light	con.	
S. S. Archimedes, N. 28° 20′, W. 17° 48′	30.14	765.5	.....	.....	.....	ne.	.....	.....	5	.....	0	.....	.....	0	0	mod.	ene.	fair.
S. S. Colorado, Galveston Bar, Texas†	30.50	774.7	30	— 1.1	.....	n.	.....	.....	9	.....	8	.....	n.	8 h'r	8 h'r	high	n.	cloudy.
S. S. Rio Grande, N. 29° 15′ W. 94° 15′ †	30.47	773.9	39	3.9	.....	nne.	.....	.....	6	.....	10	.....	n.	6 h'r	6 h'r	.....	.....	gloomy.
S. S. San Marcos, New York, N. Y.	30.46	773.7	26	— 3.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																	
S. S. Chalmette, N. 29° 34′, W. 89° 53′†	30.27	768.8	48	8.9		n.			6		10		n.		2 h'r	2 h'r			cloudy.
S. S. Alleghany, Baltimore, Md†	30.56	776.2	32	0.0		n.			2		0?				snow	snow			snowing.?
S. S. Archimede, N. 36° 01′, W. 67° 41′†	30.28	769.1	72	22.2		sw.			4		3		w.		0	0	mod.	wnw.	clear.
S. S. Picqua, N. 41° 15′, E. 2° 40′			60	15.6		calm			0		0				0	0	long	ne.	clear.
S. S. City of Merida, N. 19° 60′, W. 94° 16′†	30.27	768.8	79	26.1		nw.			4		10		nw.	2 h'r	2 h'r	h'vy	nw.	cloudy.
S. S. City of Washington, N. 21° 15′, W. 90° 05′†	30.13	765.3	78	25.6		ene.			3		5		ne.		0	0	mod	nne.	fine.
S. S. Santiago, N. 34° 29′, W. 70° 00′	30.22	767.6	69	20.6		nw.			2		10		nw.	2 h'r	2 h'r				squally.
S. S. Denmark, N. 49° 19′ W. 20° 26′ †	30.23	767.8	50	10.0		w.			4		5?		w.	sq 'lls	sq 'lls	long	wnw.	clear.?
S. S. England, N. 44° 02′, W. 49° 58′	30.04	763.0				ssw.			5		10		sw.	6 h'r	6 h'r	mod.	w.	raining.
S. S. Erin, N. 41° 28′ W. 58° 10′	30.08	764.0	58	14.4		w.			6		4		w.	sh'rs	sh'rs	r'gh	wnw.	misty.
S. S. Helvetia, N. 50° 26′, W. 24° 00′	30.14	765.5	44	6.7		w.			5		5		w.	3 h'r	3 h'r	long	w.	fine.
S. S. The Queen, N. 46° 24′, W. 44° 10′	30.09	764.3	39	3.9		ssw.			7		10		ssw.	1½h'r	1½h'r	h'vy	sw.	rainy.
S. S. Braunschweig, N. 49° 44′, W. 3° 00′	30.05	763.3	50.0	10.0	72	nnw.			3		10		nw.	3 h'r	3 h'r	light	nw.	fair.
S. S. Donau, N. 43° 51′, W. 53° 28′	30.04	763.0				wsw.			6		10		wsw.	5 h'r	5 h'r	r'gh	ssw.	misty.
S. S. Elbe, N. 40° 23′ W. 69° 13′	30.43	772.9	36	2.2		n.			6		10		n.	3 h'r	3 h'r	mod.	nnw.	misty.
S. S. Hermann, N. 36° 58′, W. 75° 20′	30.39	771.7	40.1	4.5	77	nne.			6		8		n.	4 h'r	4 h'r	5	nne.	cloudy.
S. S. Wesser, N. 49° 21′, W. 26° 07′						var.			5–6		8		wnw.	2 h'r	2 h'r	cross	wnw.	cloudy.
S. S. Muriel, Trinidad, W. I*	29.96	761.0	78	25.6		ene.			2		0						sm'h		clear.
S. S. Belgenland, Antwerp, Belgium*†	30.10	764.5	43	6.1	100	se.			4		9				0	0			overcast.
S. S. Nederland, N. 42° 58′, W 53° 28′			44	6.7	92	ssw.			5		fg.				2 h'r	2 h'r	r'gh	ssw.	foggy.
S. S. Rhyuland, N. 48° 30′, W. 34° 00′	30.23	767.8	45	7.2	92	sw.			8		10		sw.	2 h'r	2 h'r	high	w.	squally.
S. S. Pennland, off Portland, Eng	30.06	763.5	48	8.9	78	nw.			5		8		nnw.	4 h'r	4 h'r	mod.	w.	cloudy.
S. S. Switzerland, N. 49° 04′, W. 24° 31′†	30.34	770.6				w.			3		5		w.	0	0	long	w.	fair.
S. S. Waesland, N. 40° 30′, W. 70° 19′	30.38	771.6	35	1.7		n.			5		10		n.	rain	rain	mod.	nnw.	light rain.
S. S. Zeeland, N. 49° 33′, W. 17° 30′*†	30.16	766.1	48	8.9		wnw.			6		5		wnw.	hail	hail	high	w.	fair.
S. S. P. Caland, N. 44° 58′, W. 44° 54′	30.11	764.8	44.6	7.0	91	ssw.			6		10		w.			5	sw.	cloudy.
S. S. Rotterdam, N. 46° 38′, W. 38° 08′*	30.22	767.6	50.0	10.0	86	nnw.			6		9		nw.	0	0	7	nw.	cloudy.
S. S. Schiedam, N. 50° 47′, E. 0° 58′	29.95	760.7	50.7	10.4		sw.			2		10			4 h'r	4 h'r	mod.	se.	cloudy.
S. S. Zaandam, N. 43° 26′, W. 55° 10′	30.08	764.0	51.4	10.8	72	var.			4–7		8 n		nw.	10 h'r	10 h'r	3	sw.	foggy.
S. S. Caracas, La Guayra, Venezuela†	30.02	762.5	75.5	24.2	77	ene.			4		2		ene.	2 h'r	2 h'r	mod.	ne.	fine.
S. S. Claudius, N. 18° —′, W. 83° 40′†	30.16	766.1	73.0	22.8	95	ese.			4		8		ese.	sq 'lls	sq 'lls	short	e.	fair.
S. S. Valencia, N. 35° 42′, W. 72° 36′†	30.29	769.4	70.5?	21.4?	85	wnw.			3		10		wnw	2 h'r	2 h'r	mod.	wnw.	light rain.
S. S. State of Florida, N. 51° 31′, W. 27° 20′			45	7.2		wsw.			5		10		sw.	6 h'r	6 h'r	mod.	wsw	overcast.
S. S. Lepanto, N. 51° 14′, E. 1° 37′ *†	30.15	765.8	42	5.6		s.			5		6		w.	3 h'r	3 h'r	mod	s.	light rain.
S. S. Marengo, N. 41° 20′, W. 62° 08′†	30.10	764.5				nnw.			6		10		nnw.	7 h'r	7 h'r	mod.	n.	overcast †
S. S. Salerno, Hull, Eng†	29.92	760.0	43	6.1		w.			2		10		w.	1 h'r	1 h'r	r'gh	se.	raining.
S. S. Toronto, N. 50° 41′, W. 17° 48′*†	30.25	768.3	45	7.2		nw.			4		1		nw.	0	0	mod.	nw.	clear.
S. S. Surrey, Brooklyn, N. Y†	30.44	773.2	28	— 2.2															clear.
S. S. Olbers, N. 35° 11′, W. 12° 13′ *†	30.22	767.6	62	16.7		nnw.			4		5		nnw.	0	0	mod.	nnw.	fine.
S. S. Plantyn, N. 43° 59′, W. 50° 07′	30.22	767.6							6		4		wsw.	1½h'r	1½h'r	cross	wsw.	squally.
S. S. Aries, N. 40° 20′, W. 73° 20′ *†	30.42	772.7				nne.			5		10			8 h'r	8 h'r	mod.	ne.	heavy snow
S. S. Catherine Whiting, Philadelphia, Pa†	30.47	773.9	45	7.2		ne.			1					snow	snow			
S. S. Norman, N. 39° 46′, W. 73° 40′*†	30.30	769.6				n.			5				n.	light	light	sm'h		cloudy.
S. S. Saxon, N. 41° 02′, W. 71° 35′ †	30.29	769.4				nnw.					10								snowing.
S. S. Adriatic, N. 41° 38′ W. 54° 00′†	30.28	769.1	59	15.0		sw.			4		7		ssw.	0	0	mod.	ssw.	fair.
S. S. Britannic, off Galley Head, Ireland†	30.02	762.5	48	8.9	100	wsw.			3		3		wsw.	sh's	sh's	mod.	sw.	fair.
S. S. Celtic, N. 42° 05′, W. 60° 36′†	30.18	766.6	44	6.7		w.			4		10		nw.	sh'rs	sh'rs	sm'h		cloudy.
S. S. Republic, N. 48° 53′, W. 30° 43′†	30.30	769.6	51	10.6	79	wsw.			6		10		sw.	0	0	5	wsw.	overcast.
S. S. Iowa, N. 42° 57′, W. 55° 31′*†	30.17	766.3	42	5.0		ssw.			3		10			3 h'r	3 h'r	cf'd		foggy.
S. S. Auckland, N. 9° 03′, W. 34° 15′	29.90	759.4	76	24.4	77	ne.			3		4								blue sky.
S. S. Chamois, N. 22° 42′, W. 49° 01′	29.90	759.4	68.5	20.3	63	nnw.			6		7								squally.
Bk. Commewyne, N. 45° 40′, W. 14° 23′*	30.31	769.9	51.0	10.6	72	w.			4		6								d. clouds.
S. S. City of Agra, N. 31° 48′, W. 43° 00′	30.01	762.2	68.2	20.1	74	ene.			4		8								d. clouds.
S. S. Ptolemy, N. 15° 00′, W. 53° 12′	29.99	761.7	76	24.4	91	nne.			4		5								d. clouds.
Bg. Abbie Clifford, Cardenas, Cuba, W. I†	30.16	766.1	72	22.2		ese.			1		2				0	0			fair.
Bk. Aquidneck, N. 28° 02′, W. 39° 13′*†	30.20	767.1				var.							s.	light	light	light	se.	clear.
Bg. Alcira, Maracaybo, Venezuela, S. A.	29.93	760.2	83	28.3		ne.			3		3		ne.	0	0			clear.
Schr. Annie A. Holton, Tampico, Mexico†	30.35	770.9	03	17.2		n.			5		5?		n.	4 h'r	4 h'r	sm'h		cloudy.?
Schr. Annie R. Lewis, N. 15° 45′, W. 62° 29′ †	30.13	765.3	78	25.6		ne.			5		2		nne.	3 h'r	3 h'r	r'gh	ne.	clear.
Schr. Annie Thormann, N. 21° 50′, W. 39° 01′*	30.01	762.2	72.3	22.4	74	ese.			5		1 k		se.	0	0	mod	ene.	clear.
Bk. Aureola, Swansea, Wales*†	30.07	763.8	65	18.3		wnw			2		3		n.	11 h'r	11 h'r			clear.
Bk. Achille F., Queenstown, Ireland†	30.11	764.8	43.5	6.4	92	wnw.			5		3		w.	0	0	sm'h		
Bg. Annie R. Storer, N. 12° 35′, W. 56° 30′*†	30.00	762.0				ene.			5		8		ne.	1 h'r	1 h'r	r'g'h	ne.	cloudy.
S. Armenia, N. 1° 03′ W. 29° 06′ *†	29.79	756.7	79	26.1	91	e.			4		10		e.	1 h'r	1 h'r	mod.	nne.	overcast.
S. S. Burswell, Queenstown, Ireland*†	30.11	764.8	57?	13.9?		calm			0		2		wsw.	0	0	sm'h		fine.
S. S. Benledi, Antwerp, Belgium*	30.10	764.5				se.			2–3		4			0	0	sm'h		
Bk. Bare, N. 2° 55′, W. 25° 40′			82	27.8		ene.			1		9		sse.	6 h'r	6 h'r	sm'h	sse.	cloudy.
Bk. Pilgrim, N. 25° 35′, W. 40° 35′						se.			4		10			12 h'r	12 h'r	cross		cloudy.
Bk. Champion, N. 48° 02′, W. 10° 35′			52	11.1		wsw.			5		2		wnw.	to h'r	to h'r	mod.	wsw.	light rain.
Bkt. C. S. Bushnell, Alicante, Spain	30.23	767.8				var.			3		1		s.	0	0	sm'h		fine.
S. Cornelius, N. 53° 30′, W. 19° 34′†	30.05	763.3	45.5	7.5		w.			4		4		sw.	0	0	long	ssw.	fair.
Bk. Commerce, Cadiz, Spain †	30.26	768.6	66	20.0		nw.			1		0			0	0			fine.
S. S. Canonbury, N. 36° 55′ W. 73° 32′*†	30.23	767.8				n.			6		8		n.	7 h'r	7 h'r	h'vy	n.	cloudy.
Bk. Chas. Stewart, N. 18° 42′, W. 40° 20′†	30.01	762.2	75	23.9		sse.			4		8		se.	0	0	mod.	e.	
S. S. D. J. Foley, N. 19° 38′, W. 74° 22′*†	30.13	766.6	79	26.1	91	ene.			6		3		ese.	0	0	mod.	ene.	fine.
Schr. Edith R. Seward, San Domingo, Hayti, W. I†	30.07	763.8	74	23.3		n.			2		3		nne.	0	0	r'gh	e.	clear
S. E. J. Spicer, N. 38° 36′, W. 35° 50′	30.45	773.4	55	12.8	93	ese.			5		10		ene.	12 h'r	12 h'r	mod.	nnw.	raining.
Bk. E. D. Bigelow, N. 36° 10′, W. 32° 04′ *†	30.10	764.5				ene.			6		10		e.	6 h'r	5 h'r	long	e.	raining.
Schr. F. E. McDonald, N. 31° 07′, W. 71° 21′†	30.38	771.6	71	21.7		s.			1				sse.	0	0	mod.	sse.	fine.
S. S. Foscolio, N. 42° 14′, W. 10° 30′†	30.34	770.6				nw.			6		5		nw.	0	0	high		fair.
S. Festina Lente, N. 55° 08′, W. 20° 48′	29.92	760.0	44	6.7		sw.			5		8		sw.	4 h'r	4 h'r	mod.	sw.	cloudy.
Bk. Gipsy Queen, Cardenas, Cuba, W. I*†	30.20	767.1	74	23.3		e.			3		0								clear.
Bg. George, New London, Conn*†	30.44	773.2				nnw.			5		10			snow	snow				snowing.
Bk. Galeon, Cardiff, Wales			43	6.1		ssw.			4		0								
Schr. Hattie Weston, Mayaro, Trinidad, W. I *†	30.02	762.5	79	26.1		ene.			3		2		ene.	0	0	mod.	e.	fair
Bk Hattie G. McFarland, Pascagoula, Miss*†	30.38	771.6	42	5.6		n.			7		10		n.	12 h'r	12 h'r			stormy.
Bk. Horace Scudder, N. 13° 14′, W. 38° 44′ *†	29.95	760.7	73	22.8		e.			3		10		e.	0	0	long	ese	cloudy.
Schr. Isabel Alberto, N. 29° 40′, W. 74° 20′ †	30.30	769.6				sse.			2		1		se.	0	0	long	ese.	clear.
S. S. J. W. Wilson, Tanquijo Reef, Mexico*†	30.35	770.9	50	10.0		nnw.			6		10		n.			h'vy	n.	drizzling.
Schr. John L. Thomas, N. 34° 26′, W. 75° 13′*†	30.32	770.1				n.			3		9		n.	0	0	h'vy	var.	threatening.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe*†	30.02	762.5				ene.			1		2		ene.	1 h'r	1 h'r			clear.
Bg. Lilian, N. 35° 10′, W. 74° 50′†	30.26	768.6	50	10.0		n.			5		10		sw.	ne.	0	0	r'gh	ne.	cloudy.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.08	764.3				se.			1		7				0	0			fine.
S. S. Madrid, N. 46° 08′, W. 7° 12′*†	30.38	771.6	51	10.6	64	nw.			6		5		nw.	sh'rs	sh'rs	r'gh	wnw.	fair.
Bk. Mary A. Troop, Sharpness Point, Eng*†	29.98	761.8				nnw.			4		0?			4 h'r	4 h'r			fair.?
Bgt. Myrtle, St. Thomas, W. I						ene.			6		1		ene.	0	0			fair.
S. M. P. Grace, N. 36° 36′, W. 41° 15′ *†	30.14	765.5	58	14.4		ene.			6		7		ene.	sli't	sli't	r'gh	ene.	
S. S. Mendoza, N. 27° 23′, W. 45° 44′*†	30.10	764.5				ne.			2		2		sse.	3 h'r	3 h'r	long		clear.
Bkt. Norena, Matanzas, Cuba, W. I*†	30.27	768.8				ese.			1		0			0	0			clear.
Bk. Orpheus, N. 48° 18′, W 8° 55′			52	11.1		n.			2		7 k		n.			sm'h		fair.
Bk. Ottawa, N. 36° 30′, W. 3° 14 *	30.18	766.0	66	18.9		e.			2		1		e.	0	0	sm'h		clear.
S. S. Raleigh, Porth Amboy, N. J†	30.32	770.1	34	1.1										0.95	1.3			snowing.
Bk. Reindeer, N. 20° 30′, W. 67° 10′*.	30.02	762.5				ene.			6		5		ene.			long	ene.	squally.
S. Rudolph, N. 23° 54′, W. 43° 32′			68.0	20.0		s.			2		3		sw	4 h'r	4 h'r	long	n.	squally.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Rebus, N. 48° 40′, W. 7° 26′ *	29.99	761.7	49	9.4		w.			4		5?		w.	sq 'lls	sq 'lls	r'gh	var.	cloudy.?
Bk. Sunbeam, N. 29° 56′, W. 22° 36′	30.25	768.3	68	20.0	84	ese.			6		2		ese.	0	0	sm'h		clear.
Bk. Scud, N. 31° 39′, W. 72° 09′*†	30.37	771.4				s.			2		1		sw.	0	0	sm'h		fine.
Schr. S. B. Hubbard, N. 40° 58′, W. 71° 48′*†	30.44	773.2	33	0.6		nnw.			5		10			snow	snow	long	ene.	stormy.
Bk. Usko, N. 44° 43′, W. 12° 50′*†	30.44	773.2				wsw.			3		3		wnw.	2 h'r	2 h'r	cross	nw.	fair.
S. Vincenzo Accame, N. 37° 02′, W. 44° 33′ *†	30.39	772.0	60.8	16		nne.			5		5		ne.	2½h'r	2½h'r	r'gh	n.	
Schr. Viola Reppard, N. 32° 31′ W. 79° 05′†	30.13	765.3	68	20.0		sw.			2		1		sw.	0	0			clear.
Schr. Wm. Wilier, Pointe a Pitre, Guadeloupe, W. I.†	30.01	762.2				ene.			1		2		ene.	0	0			fine.
S. Wm. Woodbury, N. 60° 25′, W 17° 11′*	29.31	744.5	40	4.4		sw.			6		6		wsw.			long	sw.	cloudy.
S. S. Colon, N. 12° 42′, W. 78° 08′†	29.95	760.7	80	26.7		e.			5		3		e.	0	0	large	var.	clear.
S. S. Ambrose, N. 34° 58′, W. 72° 17′†	30.32	770.1	70	21.1		sw.			6		9		nw.	4 h'r	4 h'r	4	'w.	fine.
District No. 2.—South Atlantic.																		
H. M. S. Heroine, S. 48° 25′, W. 64° 25′	29.96	761.0	55	12.8		n.			4		4	se.				2	ese.	d. clouds
H. M. S. Starling, S. 8° 45′, E. 13° 17′	29.83	757.7	82	27.8	90	calm			0		8							d. clouds
U. S. S. Brooklyn, Montevideo, Uruguay*	29.83	757.7	66	18.9	78	ssw.	15	6.7			10		sw.	0	0	mod.	sw.	cloudy.
U. S. S Galena, Colonia, Uruguay*	29.88	758.9	67	19.4	94	sse.			3		8		sse.			mod.	sse.	fair.
S. S. Grecian, Buenos Ayres, La Pata*	29.91	759.7	61	16.1	88	sse.			3		3		sse.	0	0			clear.
S. S. Hevelius, S. 32° 40′, W. 50° —†	29.92	760.0	78	25.6		wsw.			5		3		w.	0	0			clear.
S. S. Caldew, S. 9° 43′, W. 11° 56′	29.96	761.0	76	24.4	79	se.			3		10							overcast.
S. S. May Hulse, S. 58° 26′, W 64° 29′	29.58	751.3	40.7	4.8	90	w.			6		3							misty.
Bk. Ceres, S. 3° 25′ W., 31° 05′ *	29.88	758.9	80.6	27.0	76	se.			5		7		se.	0	0	long	sse.	fair.
Bk. Essex, S. 33° 46′, E. 13° 49′ *†	30.04	763.0	72.0	22.2		sse.			4		8		s.	0	0	mod.	s.	cloudy.
Bk. E. L. Pettingill, S. 26° 57′, W. 25° 15′*†	30.20	767.1	84	28.9		e.			1		0			0	0	sm'h		
S. E. B. Sutton, S. 29° 02′, W. 45° 50′†	29.87	758.7	79	26.1	86	nw.			2		1		w.	0	0	sm'h	ne.	clear.
S. Grecian, S. 26° 50′, W. 28° 25′†	30.16	766.1	81	27.2	78	ene.			3		2		e.	0	0	sm'h		clear.
S. Geo. Stetson, S. 57° —′ W. 67° —′ *†	29.80	756.9	48	8.9	85	w.			6		4		w.	light	light	cross	w.	clear.
S. Sovereign of the Seas, S. 55° 33′, W. 64° 52′ *†	30.03	762.7	48	8.9	85	wsw.			3		5		wnw.	3 h'r	3 h'r	long	wsw.	fair.
S. Titan, S. 35° 26′, W. 49° 29′ *†	29.78	756.4	74	23.3	86	wsw.			4		5		w.	1 h'r	1 h'r	sm'h	se.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay †	29.90	759.4	70	21.1		ssw.			5		10		ssw.	0	0			threatening.
District No 3—North Pacific.																		
S. S. Mexico, Pichilinque, Mexico†	30.00	762.0	60	15.6	43	wnw.			3		0					sm'h		clear.
S. S. Belgic, N. 35° 16′, E. 142° 22′ *†	30.14	765.5	56	13.3	75	se.			3		8		ne.	0	0	long	e.	cloudy
S. S. Coptic, N. 38° 05′, W. 158° 34′	29.77	756.1	49.0	9.4	57	wnw.			4		6		nw.	4 h'r	4 h'r	mod.	con.	cloudy.
S. S. Gaelic, N. 41° 08′, W. 146° 29′	29.79	756.7	52	11.1	93	ssw.			6		2?		s.	5 h'r	5 h'r		sw.	cloudy?
S. S. Oceanic, N. 34° 25′, E. 144° 27′ *	30.17	766.3	53	11.7	86	wnw.			3		5					mod.	ne.	fair.
S. S. Oregon, N. 40° 49′ W. 124° 34′†	30.53	775.4	47	8.3	85	calm			0		0					high	sw.	clear.
S. S. Mississippi, San Francisco, Cal†	30.55	776.0	46	7.8	77	n.			1		0							clear.
S. S. Willamette, Seattle, Wash. Ter†	30.43	772.9	40	4.4	91	s.			2		10		s.	0.05	1.3			raining.
S. S. Ancon, N. 32° 42′ W. 117° 18′†	30.32	770.1	58	14.4	94	e.			2		0					sm'h		clear.
S. S. City of Chester, San Francisco, Cal *†	30.58	776.7	52	11.1	54	ese.			2		2		se.	0	0	light	sw.	fair.
S. S. G. W. Elder, Seattle, Wash. Ter†	30.56	776.2	42	5.6	91	calm			0		10			snow	snow	sm'h		overcast.
S. S. State of California, Astoria, Oregon †	30.48	774.2	38	3.3	90	e.			3		10		se.					raining.
S. S. City of New York, N. 29° 23′, W. 141° 32†	30.20	767.1	68	20.0	79	sse			5		10		s.	6 h'r	6 h'r	h'vy	nw.	cloudy.
S. S. City of Pekin, Hong Kong, China †	30.10	764.5	66	18.9	94	ene.			2									clear.
S. S. City of Rio de Janeiro, N. 15° 04′, W 95° 22′			75	23.9	68	ne.			6		1		ne.	0	0	r'gh	n.	clear.
S. S. Colima, N. 9° 30′, W. 85° 13′†	29.84	757.9	78	25 6	95	ne.			3		0			0	0	mod.	ne.	clear.
S. S. Granada, N. 33° 39′, W. 118° 19†	30.32	770.1	50	13.3	69	w.			1		0			0	0	sm'h	w.	clear.
S. S. San José, N. 27° 10′ W. 115° 25′†	30.00	762.0	58	14.4	53	nne.			4		0			0	0	h'vy	nne.	clear.
S. S. Zealandia, N. 34° 18′, W. 142° 32′	30.41	772.4	63	17.2	83	se.			6		10					r'gh	sw.	dull.
H. M. S. Curacoa, N. 33° 48′, E. 135° 03′	30.05	763.3	52.5	11.4	93	nnw.			1–2		10							showery.
H. M. S. Himalaya, N. 14° 45′, E. 113° 10′	29.94	760.5	80	26.7	91	nne.			3		5					2	ne.	d. clouds.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.96	761.0	69	20.6		calm			0		2							showery.
H. M. S. Swiftsure, N. 6° 16′, W. 114° 27′	29.87	758.7	77	25.0	95	nne.			4–5		6	n.						squally.
U. S. Naval Hospital, Yokohama, Japan*	30.34	770.6	39	3.9	73	n.			1		10			light	light			gloomy.
U. S. S Independence, Mare Island, Cal	30.59	777.0	37	2.8	90	e.			1		5		e.	0	0			fair.
U. S. S. Lackawanna, Honolulu, Sandwich Islands*	29.94	760.5	72	22.2	80	calm			0		8		ne.					cloudy.
U. S. S. Monocacy, Hong Kong, China	30.16	766.1	70	21.1	85	ne.			1		0							clear.
U. S. S. Palos, Tientsin, China*	30.29	769.4	23	— 5.0	100	wsw.			1		0							clear.
U. S. S. Ranger, Mare Id, Cal	30.55	776.6	30	2.2	90	calm			0		0			0	0			clear.
U. S. S. Richmond, Hong Kong, China*	30.00	762.0	58	14.4	94	calm			0		0			0	0			clear.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.89	759.2	69	20.6	90	se.			1		2		se.			sm'h		fair.
S. S. Scotia, Hong Kong, China	30.07	763.8	68	20.0	84	e.			1–5		0							misty.
S. Henry Failing, N. 34° 52′, W. 122° 10′ †	30.35	770.9	53	11.7		nnw.			4		1		ne.	0	0	sm'h		fine.
S. St. Francis, N. 8° 13′, W. 122° 57′ †	29.96	761.0	78	25.6		e.			6		3		e.	0	0	h'vy	nne.	fine.
Tamega, Macao, China	30.11	764.8	70.7	21.5	82	calm			0		10			0	0			overcast.
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.90	759.4	67	19.4	95	s.			2		6	se.						foggy.
H. M. S. Kingfisher, S. 10° 19′, W. 95° 42′	29.91	759.7	75	23.9		sse.			4		7					4	se.	d. clouds
H. M. S. Lark, S. 36° 50′, E 174° 49′	29.83	757.7	71.3	21.8	85	nne.			5		10					1	n.	squally.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.65	753.1	62	16.7		calm			0							sm'h		d. clouds.
H. M. S. Rocket, S. 53° 10′, W. 71° 00′	30.03	762 7	55	12.8	74	wnw.			2		2							d. clouds
H. M. S. Sylvia, Sandy Point, Patagonia	30.01	762.2	50.2	10.1	72	wnw.			2		2							d. clouds.
U. S. S. Essex, Callao, Peru	29.86	758.4	67	19.4	89	sse.			1		10		se.				s.	foggy.
U. S. S. Iroquois, S. 33° 44′, W. 99° 35′	30.21	767.3	70	21.1	70	w.			1		2		sw.			sm'h	s.	clear.
U. S. S. Onward. Callao, Peru*†	30.00	762.0	65	18.3	94	sse.			1		10		n.					misty.
U. S. S. Pensacola, S. 22° 45′, W. 74° 15′*	29.81	757.2	68	20.0	65	sse.			3		10			0	0	mod.	sse.	cloudy.
British Merchant, S. 36° 57′, W. 138° 44′	30.23	767.8	64.5	18.1	83	ese.			4		3							d. clouds.
Bk. Childwall, S. 20° 15′, W 135° 00′ *	29.87	758.7	78	25.6		nne.			3		3		ne.	4 h'r	4 h'r	sm'h		fine.
Bk. Edmund Phiney, S. 58° 05′, W. 70° 50′ †.	29.76	755.9	47	8.3		w.			6		2			rain	rain	high	w.	hazy.
Bk. Godeffroy, S. 23° 10′, W. 79° 31′ *	29.77	756.1	66.4	19.1	72	sse.			3–4		10		sse.	0	0	mod.	sse.	cloudy.
S. S. Australia, Sydney, N. S. W *	29.20	741.7	78	25.6	78	calm			0		0?			2 h'r	2 h'r			cloudy.
S. S. City of Sydney, Sydney, N. S. W †	29.63	752.6	77	25.0	77	ne.			4		8		ne.	0	0			cloudy.
H. M. S. Gannet, S. 2° 12′, W. 79° 51′	29.85	758.2	75	23.9	90	s.			1		10							gloomy.
Bk. Warden Law, S. 35° 10′ W. 91° 10′*	30.28	769.1				ese.			1		2		se.	0	0	sm'h	sse.	fair
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 6° 10′, E. 39° 11′	29.82	757.4	85	29.4		ssw.			1		4	sse.						d. clouds
H. M. S. Eclipse, N. 28° 59′, E. 50° 48′	29.91	759.7	62	16.7		ese			2		8	nnw.						d. couds.
H. M. S. Euryalus, Rangoon, India	29.88	758.9	84	28.9	71	calm			0		2							misty.
H. M. S. London, Zanzibar, Zanzibar	29.87	758.7	80	26.7		sse.			1		3	sse.						d. clouds
H M. S. Woodlark, Muscat Cove, Arabia	30.01	762.2	71.5	21.9	58	ese.			5–6		9	calm				4	se.	squally.
S. S. Galatia, N. 11° 23′, E. 56° 52′ †.	29.92	760.0	76	24.4	?	ne.			3		6		ne.	0	0	mod.	ne.	cloudy.
Bkt. Josephine, S. 34° 02′, E. 26° 11′†	30.05	763.3	75	23.9	81	e.			4		0			0	0	sm'h		hazy.
S. Sacramento, S. 45° 35′, E. 46° 30′ *†	30.25	768.3	50	10.0	86	nw.			4		10		nw.	0	0	mod.	nw.	overcast.

International Chart I. February 18, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B.Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 19, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.19	766.8	62.2	16.8	77	s.	.....	.....	2	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.13	765.3	59.0	15.0	58	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Thève.
La Calle	.....	.....	30.15	765.7	59.7	15.4	72	nne.	.....	.....	1	.....	5	.....	.....	0.354	9.0	cloudy	Fonfrède.
Tunis	.....	.....	30.10	764.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.21	767.2	64.8	18.2	67	w.	.....	.....	1	.....	4	.....	.....	0	0	cloudy	Pérès.
Tebessa	.....	.....	30.20	767.0	54.0	12.2	79	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dognon.
Geriville	.....	.....	.....	.....	63.3	17.4	10	nnw.	.....	.....	4	.....	0	.....	.....	0	0	clear	Forfert.
Laghouat	.....	.....	30.22	767.7	51.4	10.8	39	s.	.....	.....	4	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.22	767.6	64.0	17.8	31	s.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Malau.
Australian.																			
Melbourne, Victoria	29.75	755.6	29.84	757.9	56.5	13.6	72	sse.	5	2.2	.....	.....	1	.....	.....	0.04	1.0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.69	754.2	30.28	769.0	34.5	1.4	71	se.	.....	.....	2	.....	7	.....	.....	0	0	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	29.50	749.2	30.32	770.0	25.2	— 3.8	87	ene.	8.7	3.9	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.35	745.4	30.28	769.1	30.2	— 1.0	70	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.96	735.6	30.28	769.2	30.6	— 0.8	72	e.	.....	.....	1	.....	2	.....	.....	0.012	0.3	.....	Andreas Rospini.
Hermannstadt	28.76	730.6	30.28	769.1	31.5	— 0.3	85	sw.	.....	.....	3	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.78	730.9	30.19	766.9	30.0	— 1.1	84	e.	.....	.....	2	.....	0	.....	.....	0	0	gloomy	The Staff.
Lemberg	29.33	745.0	30.41	772.4	19.2	— 7.1	69	e.	.....	.....	2	.....	1	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.72	678.6	30.19	766.9	30.7	2.6	69	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.06	763.6	30.18	766.5	39.2	4.0	43	ene.	.....	.....	1	.....	3	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.77	756.1	30.24	768.0	35.6	2.1	53	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	Joseph Midlinszay, S. J.
Szegedin	29.99	761.7	30.28	769.2	35.6	2.0	61	calm	.....	.....	0	.....	4	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.10	764.5	30.20	767.0	38.3	3.5	40	ne.	.....	.....	3	.....	5	.....	.....	0	0	.....	Royal Academy.
Vienna	29.52	749.9	30.28	769.2	30.9	— 0.6	62	se.	.....	.....	2	.....	2	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.00	762.0	30.10	764.5	40.0	4.8	87	s.	11	4.9	.....	.....	9	.....	.....	0.025	0.7	overcast	W. Boswell
Armagh, Observatory	29.93	760.2	30.08	766.6	34.9	1.6	90	sw.	12	5.4	.....	.....	10	.....	.....	.....	.....	misty	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.17	766.3	43.7	6.5	83	nw.	14	6.3	.....	.....	3	.....	.....	.....	.....	blue sky	John Hartnup.
Bolton, Sharples	29.40	749.0	30.04	763.0	43.0	6.1	71	nnw.	0	2.7	.....	.....	5	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.71	754.6	30.11	764.8	42.9	6.1	77	sw.	.....	.....	1	.....	7	.....	.....	0	0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	29.91	759.7	29.94	760.5	80.0	26.7	60	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	gloomy	Corpl. J. Surgenor, A. H. C
Cardington	30.01	762.2	30.12	765.0	40.6	4.8	91	nw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.90	761.0	30.09	764.3	39.7	4.3	88	nw.	.....	.....	1	.....	10	.....	.....	.....	.....	misty	Corpl. G. A. Pickles.
Chatham, School M. E.	27.63	701.8	29.86	758.4	85.0	29.4	53	nnw.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	The Staff.
Falmouth, Observatory	30.03	762.7	30.27	768.8	45.4	7.4	65	nne.	.....	.....	1	.....	6	.....	.....	.....	.....	.....	Corpl. F. Milner, A. H. C.
Fort Napier, Natal	27.63	701.8	29.86	758.4	85.0	29.4	53	ne.	.....	.....	1	.....	4	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Freetown	29.64	752.8	29.87	758.7	87.0	30.6	91	w.	.....	.....	1	.....	4	.....	.....	.....	.....	.....	Royal Academy.
Galway	30.11	764.8	30.15	765.8	41	5.0	91	wsw.	.....	.....	2	.....	10	.....	.....	0	0	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.05	763.3	30.10	764.5	54.8	12.7	92	.....	.....	.....	.....	.....	9	.....	.....	.....	.....	gloomy	Sgt. F. Norris, A. H. C.
Glasgow, Observatory	29.92	760.0	30.12	765.0	40.9	4.9	84	wsw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.94	760.5	30.12	765.0	40.4	4.7	77	nw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	29.92	760.0	30.22	767.6	46.0	7.8	66	nnw.	.....	.....	2	.....	5	.....	.....	blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.09	764.3	30.13	765.3	42.0	5.6	74	nw.	12	5.4	.....	.....	6	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.86	758.4	30.13	765.3	42.2	5.7	70	nw.	.....	.....	1	.....	10	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	30.09	764.3	30.17	766.3	57.8	14.3	90	n.	.....	.....	2	.....	6	.....	.....	0	0	d. clouds	Corpl. Keene, A. H. C
Nassau, Bahamas	30.16	766.1	30.20	767.1	74.0	23.3	69	ne.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	C. S. Duncombe
Oscott, St. Mary's College	29.59	751.6	30.13	765.3	43.8	6.6	69	n.	.....	.....	4	.....	8	.....	.....	.....	.....	threatening	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.91	759.7	30.14	765.5	42.0	5.6	87	nw.	.....	.....	3	.....	10	.....	.....	.....	.....	threatening	The Staff.
Plymouth	30.16	766.1	30.24	768.1	45.0	7.2	90	nnw.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.81	757.2	29.91	759.7	39.9	4.4	90	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.10	764.5	30.17	766.3	46.2	4.0	80	nne.	.....	.....	2	.....	10	.....	.....	.....	.....	drizzling	W. H. Lyne.
Sheffield	29.84	757.9	30.13	765.3	43.4	6.3	81	nnw.	.....	.....	2	.....	10	.....	.....	0	0	overcast	W. F. Cooper.
Siloth Rectory	30.12	765.0	30.14	765.5	46.6	8.1	74	wsw.	.....	.....	1	.....	6	.....	.....	0.095	2.4	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.17	766.3	42.8	6.0	90	nw	10	4.5	.....	.....	5	.....	.....	.....	.....	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.92	760.0	30.14	765.5	44.2	6.8	75	n.	.....	.....	3	.....	9	.....	.....	.....	.....	gloomy	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	30.23	767.8	30.28	769.1	48	8.9	71	nw.	.....	.....	4	.....	6	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.22	767.6	30.25	768.3	45.9	7.7	83	sw.	17	7.6	.....	.....	6	.....	.....	.....	.....	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.72	754.9	30.11	764.8	55.8	13.2	53	nw.	5.0	2.2	.....	0	2 cn	.....	nw.	0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	3	—16.1	.....	nw.	3	1.3	.....	0	8 ks	.....	.....	0	0	foggy	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.22	767.6	30.27	768.8	8	—13.3	98	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.18	766.6	30.25	768.3	5	—20.6	100	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Cornwall	29.98	761.5	30.19	766.8	20.8	— 6.2	95	w.	.....	.....	3	.....	10 s	.....	.....	0.050	1.3	overcast	Jas. Smith, M. A.
Dalhousie	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. A. Johnson.
Father Point, Quebec*	29.99	761.7	30.01	762.2	10	—12.2	91	sw.	25	11.2	.....	.....	10 n	.....	w.	.....	.....	light snow	J. McWilliams.
Fort Garry, Manitoba*	29.63	752.6	30.61	777.5	—15	—26.1	41	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	James Stewart
Fredericton	30.22	767.6	30.30	769.6	— 8.7	—22.6	100	calm	0	0	.....	0	8 s	.....	.....	0	0	d. clouds	Prof. Harrison, L. L. D.
Granton	29.24	742.7	30.43	772.9	20.3	— 6.5	96	w.	5	2.2	.....	.....	10 n	.....	.....	0	0	overcast	Jas. Grant.
Halifax, N. S*	30.21	767.3	30.35	770.0	9	—12.8	91	w.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	A. Allison.
Hamilton	29.95	760.7	30.37	771.4	22.1	— 5.5	79	w.	.....	.....	1	8 ck	0	sw.	.....	0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.93	760.2	30.29	769.4	23	— 5.0	84	sw.	11	4.9	.....	.....	10 s	.....	nw.	0.01	0.3	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.97	761.2	30.19	766.8	20	— 6.7	91	w.	14	6.3	.....	.....	10 n	.....	.....	0.01	0.3	light snow	C. H. McLeod, C. E.
Ottawa	29.95	760.7	30.22	767.6	15.9	— 8.9	83	w.	.....	.....	1	.....	10 s	.....	.....	0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.57	751.1	30.33	770.4	10	— 8.9	87	w.	12	5.4	.....	2 k	2 ks	w.	w.	0.08	2.0	fair	Rev. R. Mosley.
Peterboro	29.53	750.0	30.34	770.6	18.6	— 7.4	67	sw.	.....	.....	2	0	2 s	.....	.....	0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.67	753.6	30.41	772.4	24	— 4.4	87	w.	12	5.4	.....	10 c	0	w.	.....	0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.73	755.1	30.43	772.9	23	— 5.0	88	w	12	5.4	.....	.....	10 ks	.....	w.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.77	756.1	30.11	764.8	15	— 9.4	100	nw.	.....	.....	5	.....	10 n	.....	w.	0.05	1.3	light snow	Capt. Ashe, R. N
Rockliffe, Ontario*	29.74	755.4	30.25	768.3	13	—10.6	88	nw.	5	2.2	.....	0	5 ks	.....	.....	0.10	2.5	fair	W. H. McIntyre.
Saugeen, Ontario*	29.59	751.6	30.36	771.1	20	— 6.7	96	nw.	20	8.9	.....	.....	10 s	.....	.....	0	0	cloudy	
St. Andrews, N. B	30.24	768.1	30.29	769.4	15	— 9.4	91	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	
St. John, N. B	30.14	765.5	30.32	770.1	12	—11.1	80	n.	5	2.2	.....	7 ck	0	.....	.....	0	0	d. clouds	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.16	766.1	14.0	—10.0	.....	n.	.....	.....	4	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	29.03	737.3	30.41	772.4	20.4	— 6.4	93	w.	10	4.5	.....	.....	10 s	.....	.....	0	0	overcast	C. J. Macgregor, M. A.
Sydney, C. B*	30.23	767.8	30.30	769.6	2	—16.7	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.96	761.0	30.37	771.4	23	— 5.0	84	w.	10	4.5	.....	.....	10 ks	.....	w.	0	0	cloudy	Magnetic Observatory.
Windsor	30.21	767.3	30.31	769.9	5.0	—15.0	100	sw.	4	1.8	.....	0	0	.....	.....	0	0	blue sky	Prof. W. H. Butler, M. A
Woodstock	29.30	744.2	30.44	773.2	21.4	— 5.9	73	w.	13.0	5.8	.....	.....	10 s	.....	.....	0	0	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.26	768.6	30.33	770.4	17	— 8.3	67	ne.	2	0.9	.....	8 ck	0	w.	.....	0	0	fair	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	29.84	757.9	29.87	758.7	74.0	23.3	91	e.	15.7	7.0	.....	7 cs	0	.....	.....	0	0	hazy.....	**John Duthie.**
Springbok Fontein	27.85	707.4	.....	.....	90	32.2	36	nw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**J. T. Eustace.**
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.57	624.1	.....	.....	24.8	— 4	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	foggy.....	
Tchang-kia-tchouang	30.41	772.3	30.56	776.1	27.5	— 2.5	92	e.	.....	.....	1	.....	10	.....	.....	0	0	covered.....	R. P. Desurmont, S.J.
Zi-Ka-Wei, near Shanghai	30.41	772.3	30.43	772.9	37.8	3.2	95	ene.	8.5	3.8	.....	.....	10 k	.....	ene.	0.276	7.0	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.31	769.9	30.36	771.1	33.6	0.9	65	ese.	22	10	.....	.....	0	.....	.....	.....	.....	.....	Oversergeant Fischer,
Fanoe	30.22	767.5	30.24	768.0	33.6	0.9	92	e.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	**Overloerer Lauridsen.**
Godthaab, Greenland	28.64	727.4	28.68	728.5	10.2	—12.1	100	s.	.....	.....	6–7	.....	10	.....	.....	.....	.....	snowing.....	S. Kleinschmidt.
Ivigtut, Greenland	28.89	733.9	28.91	734.4	10.0	—12.2	.....	w.	.....	.....	2	.....	10	.....	.....	.....	.....	snowing.....	
Jacobshavn, Greenland	28.56	725.3	28.60	726.5	7.9	—13.4	.....	sw.	.....	.....	4	.....	6	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.56	725.5	28.61	726.6	30.2	— 1.0	92	sw.	.....	.....	4	.....	8	.....	.....	.....	.....	snowing.....	A. O. Thorlacius.
Thorshavn	29.40	746.7	29.43	747.6	44.2	6.8	85	ssw.	29	13	.....	.....	10	.....	.....	.....	.....	.....	**Overloerer Bergh.**
Vestervig	30.20	767.0	30.29	769.3	33.3	0.7	89	e.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	28.29	718.6	28.34	719.8	5.0	—15.0	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	29.60	751.7	30.27	768.8	43.2	6.2	94	calm	.....	.....	0	.....	n	.....	n.	0.102	2.6	.....	M. Labroue, Director.
Alençon, Normal School	29.63	752.6	30.18	766.6	41.7	5.4	94	sw.	.....	.....	1	.....	10 n	n.	ne.	.....	.....	light rain....	M. Nicot, Director.
Arras, Engineer School	29.84	757.9	30.11	764.7	40.5	4.7	88	w.	.....	.....	3	.....	cn	.....	.....	0.138	3.5	.....	M. **Fénéon, Command't.**
Avignon, Normal School	30.01	762.3	30.09	764.3	50.7	10.4	65	nne.	.....	.....	2	.....	.....	.....	.....	0	0	....	M. Giraud, Director.
Bar-sur-Seine	29.62	752.3	30.19	766.8	42.4	5.8	76	w.	.....	.....	1	0	8 kn	.....	nw.	0.016	0.4	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.89	759.1	30.16	766.1	42.6	5.9	82	w.	.....	.....	1	.....	8	.....	w.	0.031	0.8	very cloudy	M. Frère Eugène Marié
Besançon, Normal School	29.22	742.2	30.13	765.3	44.6	7	88	sw.	.....	.....	1	.....	k	.....	e.	0.059	1.5	.....	M. Gobin, Director.
Bordeaux, Observatory	29.95	760.8	30.22	767.6	41.0	5.0	89	nne.	.....	.....	1	.....	10	.....	ne.	0.157	4.0	covered.....	M. Rayet, Director.
Bourges, Normal School	29.64	752.9	30.22	767.6	40.6	4.8	90	w.	.....	.....	1	.....	n	.....	w.	0.08	2.	.....	M. Malet, Director.
Brest, Naval Observatory	30.02	762.4	30.26	768.6	48.2	9.0	73	n.	.....	.....	2	.....	2	.....	n.	0.177	4.5	.....	M. de Kermarec, Dir.
Caen, Normal School	30.04	762.9	30.11	764.8	46.0	7.8	79	se.	.....	.....	1	.....	5	.....	s.	0.035	0.9	cloudy.....	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.85	758.3	30.19	766.7	40.8	4.9	80	calm	.....	.....	0	.....	5	.....	.....	0.008	0.2	cloudy.....	M. Jadot, Director.
Charleville, Normal School	29.61	752 2	30.13	765.4	39.2	4.0	80	w.	.....	.....	1	.....	10	.....	.....	0.055	1.4	covered.....	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.78	731.1	30.19	766.7	41.9	5.5	68	n.	.....	.....	1	.....	10	.....	.....	0	0	covered.....	M. Allnard, Director.
Cluny, Normal School	29.28	743.7	30.15	765.9	41.9	5.5	83	sw.	.....	.....	1	.....	10	.....	nw.	0	0	.....	M. de Villiemontée, Dir.
Commercy, Normal School	29.29	744.0	30.19	766.7	39.9	4.4	80	w.	.....	.....	1	.....	8 sn	w.	w.	0.004	0.1	very cloudy.	Dr. Coulet, Director.
Gap, Normal School	27.52	698.9	30.13	765.3	39.2	4	83	calm	.....	.....	0	.....	8	.....	.....	0	0	....	M. Jeangirard, Director.
Gréasque, du Rhone	28.96	735.5	30.10	764.6	47.7	8.7	83	s.	.....	.....	1	.....	10	.....	e.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.36	745.7	30.15	765.8	42.1	5.6	94	nne.	.....	.....	1	.....	k	.....	n.	0	0	.....	M. Ablard, Director.
Guéret	28.56	725.4	30.17	766.4	44.6	7	91	nw.	.....	.....	1	0	0	.....	.....	0	0	clear.....	**M. Delorme, Dir.**
Lamballe, Normal School	30.02	762.4	30.29	769 4	46.8	8.2	75	nw.	.....	.....	2	.....	5	.....	nw.	0.098	2.5	cloudy.....	M. Ollitrault, Director
Lescar, Normal School	29.59	751.6	30.17	766.4	43.5	6.4	79	w.	.....	.....	1	.....	10	.....	.....	0.378	9.6	raining.....	M. Chauvin, Director.
Lorient, Naval Observatory	30.15	765.8	30.25	768.4	50.0	10.0	60	n.	.....	.....	1	.....	8	nw.	n.	0	0	¾ covered..	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.09	738.8	30.18	766.6	41.2	5.1	79	nnw.	.....	.....	2	.....	10 n	.....	nnw.	0.012	0.3	light rain....	M. André, Director.
Mans, Normal School	29.89	759 2	30.21	767.4	41.0	5	94	w.	.....	.....	1	.....	10	.....	w.	0.146	3.7	covered.....	M. Piboën, Director.
Marseille, Observatory	29.82	757.5	30.10	764.5	51.3	10.7	70	ese.	.....	.....	1	.....	10	.....	.....	(nap.)	(nap.	.....	M. Stephan, Director.
Montlouis	24.77	629.1	29.61	752.1	30.7	— 0.7	89	e.	9.4	4.2	.....	.....	10	.....	w.	0.551	14.0	.....	**M. Caré for Dr. Fines.**
Montpellier, Normal School	29.97	761.1	30.10	764 4	51.1	10.6	68	n.	.....	.....	2	.....	10	nw.	.....	0	0	covered	M. Galzin, Director.
Nancy, Normal School	29.23	742.4	30.03	762.8	41.0	5.0	69	wsw.	.....	.....	1	.....	kn	.....	....	0	0	....	M. Hasse, Director.
Nantes, Observatory	30.07	763.7	30.23	767.8	51.1	10.6	68	w.	.....	.....	1–2	.....	8 kn	....	wnw.	0.067	1.7	.....	M. Larocque, Director.
Perpignan, Observatory	30.02	762.6	30.14	765.5	51.3	10.7	63	nw.	11.2	5.0	.....	.....	10	.....	sw.	0.071	1.8	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.03	534.1	.....	.....	14.0	—10.0	.....	ne.	.....	.....	1	.....	10	.....	ne.	0.827	21.0	snowy.....	**M. Vaussenat, Director.**
Privas, Normal School	28.99	736.4	30.08	764.0	46.0	7.8	77	n.	.....	.....	1	.....	2	n.	n.	0	0	slightly cl'dy	M. Talheu.
Puy de Dôme Obs'y, Summit	25.15	638.9	.....	.....	25.5	— 3.6	100	n.	.....	.....	1	.....	10	.....	....	0.110	2.8	foggy.....	M. Allnard, Director.
Rochefort, Naval Obs'y	30.20	767.1	30.23	767.9	50.7	10.4	62	calm	.....	.....	0	.....	0	.....	.....	0.24	6.	clear.....	Lt. E. Decante, Director
Roche-sur-Yon, N. School	29.98	761.4	30.20	767.0	48.2	9	71	w.	.....	.....	1	.....	2	.....	e.	0.08	2.	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.95	709.9	30.17	766.3	39.2	4	83	nw.	.....	.....	1	.....	kn	....	e.	0.971	1.8	.....	M. Seger, Director.
Rouen, Normal School	30.13	765.3	30.18	766.5	45.3	7.4	83	wnw.	.....	.....	1	.....	8	nw.	.....	0.28	7.	very cloudy	M. **Moullot.**
Saint Lô	.....	.....	.....	.....	40.4	8	70	w.	.....	.....	1	.....	5	n.	n.	0.20	5.	cloudy.....	**M. Delaplanche, Dir.**
Saint Maur, Observatory	30.00	762.1	30.17	766.3	40.8	4.9	87	wnw.	.....	.....	2	.....	10	.....	w.	0.028	0.7	.....	M. Renou, Director.
Toulouse, Observatory	29.47	748 6	30.20	767.1	45.7	7.6	80	sw.	.....	.....	1	.....	10	w.	.....	0.197	5.0	covered.....	M. Brillnad, Director.
Tours	30.02	762.6	30.20	767.0	47.8	8.8	72	wsw.	.....	.....	1	.....	5	w.	wsw.	0.031	0.8	cloudy.....	M. de Tastes.
Versailles, Observatory	29.67	753.5	30.16	766.0	38.1	3.4	93	w.	.....	.....	1	.....	.....	.....	.....	0.047	1.2	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.06	763.4	30.21	767.2	45.9	7.7	83	e.	2.0	0.9	.....	.....	10 kn	....	ne.	0.268	6.8	.....	**M. Cartier, Director.**
German.																			
Ansbach	28.65	727.7	30.16	766.1	35.6	2.0	82	se.	.....	.....	2	.....	10	se.	.....	0.063	1.6	....	**Prof. Jnedt.**
Bamberg	29.28	743.8	30.13	765.3	35.6	2.0	84	se.	.....	.....	1	.....	9	.....	.....	0.039	1.0	raining.....	**Prof. Dr. Hoh.**
Berlin	30.11	764.7	30.26	768.5	36.3	2.4	52	ne.	.....	.....	3	.....	2	.....	.....	0	0	....	**Meteorological Institute.**
Breslau	29.76	756.0	30.30	769.6	29.1	— 1.6	56	ese.	.....	.....	2	.....	0	.....	.....	0	0	....	Royal University [illegible]
Carlsruhe	29.68	753.9	30.15	765.9	43.2	6.2	73	sw.	.....	.....	2	.....	10	sw.	.....	0.008	0.2	.....	Albert Senz.
Cassel	29.37	745.9	30.08	764.0	35.2	1.8	93	sse.	.....	.....	1	.....	10	s.	.....	0.075	1.9	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.75	755.7	30.14	765.6	36.7	2.6	91	ese.	.....	.....	1	.....	10	....	.....	0.102	2.6	.....	**Physical Society.**
Friedrichshafen	28.68	728.4	30.16	766.0	41.0	5.0	84	ssw.	.....	.....	2	.....	10	w.	.....	0	0	....	Wilhelm, Chief Tel.
Hamburg	30.12	765.1	30.21	767.4	34.3	1.3	75	ese.	.....	.....	3	.....	2	s.	.....	0	0	hazy	E. Preller.
Kiel	30.22	767.5	30.23	767.9	32.9	0.5	67	ese.	.....	.....	2	.....	0	.....	.....	0	0	....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.76	755.9	30.20	767.1	34.5	1.4	59	se.	.....	.....	2	.....	5	.....	.....	0	0	....	H. Leppig, Asst.
Magdeburg	30.00	761.9	30.19	766.9	30.5	2.5	54	ese.	.....	.....	1	.....	2	nw.	.....	0	0	....	**Dr. Assmann.**
Memel	30.54	775.7	30.59	776.9	27.5	— 2.5	35	se.	.....	.....	3	0	0	....	....	.....	.....	clear..	Isserntum.
Munich	28.27	718.0	30.14	765.5	37.2	2.9	90	sw.	.....	.....	1	.....	10	w.	.....	0.028	0.7	rain & snow	**Central Station.**
Neufahrwasser	30.47	773.8	30.48	774.2	28.6	— 1.9	66	e.	.....	.....	1	.....	0	.....	.....	0	0	....	A. Lothes.
Neustadt, Palatinate	29.56	750.8	30.09	764.2	43.9	6.6	68	w.	.....	.....	3	.....	6	w.	.....	0.075	1.9	.....	Dicknether.
Stuttgart	29.14	740.2	30.06	763.5	42.8	6.0	67	w.	.....	.....	1	.....	8	nw.	.....	0.008	0.2	raining.....	Prof. Dr. **Schoder.**
Wustrow	30.30	769.6	30.32	770.2	32.5	0.3	81	se.	.....	.....	2	0	3 s	.....	.....	0	0	....	Profs. Brandes & **Reimer.**
Greek.																			
Athens	29.65	753.0	30.04	763.0	50.0	10.0	.....	n.	.....	.....	3.5	.....	9	.....	.....	0	0	covered.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.00	762.1	30.05	763.4	75.9	24.4	33	nne.	4.0	1.8	.....	.....	9	.....	.....	0	0	gloomy.....	
Deesa	29.52	749.8	30.00	762.0	77.7	25.4	11	nw.	10.0	4.5	.....	.....	7	w.	.....	0	0	d. clouds. ...	
Bombay	29.92	759.8	29.95	760.8	78.7	25.9	75	nnw.	22.0	9.8	.....	.....	10	wnw.	w.	0	0	overcast.....	
Poona, Yarrowda	28.06	712.8	29.89	759.1	89.3	31.8	20	sw.	6.0	2.7	.....	.....	5	wnw.	.....	0	0	d. clouds....	
Belgaum	27.40	695.8	29.89	759.3	85.5	29.9	10	se.	5.0	2.2	.....	.....	0	.....	.....	0	0	blue sky.....	
Lahore	29.29	744.0	30.07	763.7	63.6	17.6	34	w.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky.....	
Roorkee	29.08	738.7	30.00	762.0	71.8	22.1	54	calm	0	0	.....	.....	7	se.	.....	0	0	.....	
Agra	29.40	746.7	29.98	761.4	73.2	22.9	47	w.	.....	.....	.....	.....	10	.....	ne.	0	0	d. clouds....	
Nagpur	28.87	733.3	29.99	759.3	90.5	32.5	15	sw.	5.0	2.2	.....	.....	9	w.	.....	0	0	d. clouds....	
Jubbulpore	28.60	726.4	29.95	760.7	83.6	28 7	23	w.	4.0	1.8	.....	.....	10	.....	nw.	0	0	overcast.....	
Lucknow	29.57	751.6	29.98	761.4	70.2	21.2	59	calm	0	0	.....	.....	8	.....	.....	0	0	d. clouds....	
Allahabad	29.64	752.8	29.99	760.9	73.6	23.1	65	calm	0	0	.....	.....	10	.....	.....	0	0	overcast.....	
Patna	29.74	755.3	29.92	760 1	79.1	24.5	65	n.	4.5	2.0	.....	.....	4	n.	n.	0.02	0.5	d. clouds.....	
Hazaribagh	27.91	709.0	29.94	760.4	75.5	24.2	39	wnw.	7.8	3.5	.....	.....	2	.....	.....	0	0	d. clouds. ...	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
INDIAN.—Continued.																			
Cuttack	29.88	758.9	29.96	761.0	84.2	29.0	47	ssw.	5.0	2.2			0			0	0	blue sky	
Calcutta, Alipore	29.93	760.3	29.96	760.9	80.8	27.1	47	wsw.	5.0	2.2			2	w.		0	0	d. clouds	
Dhubri	29.80	756.8	29.92	759.9	74.4	23.6	57	calm	0.2	0.1			0			0	0	blue sky	
Chittagong	29.86	758.4	29.95	760.8	76.4	24.7	61	w.	3.6	1.6			1			0	0	blue sky	
Sibsagar	29.64	752.8	29.99	761.7	63.7	17.6	80	ne.	2.0	0.9			6	w.	w.	0	0	d. clouds	
Jeypore	28.55	725.2	30.04	763.0	67.7	19.8	24	wsw.	6.2	2.8			9		wsw.	0	0	d. clouds	
Bellary	28.46	722.9			88.3	31.3	22	ese.	8	3.6			0			0	0	blue sky	
Trichinopoly	29.69	754.1			86.4	30.2	36	e.	1	0.4			0			0	0	blue sky	
ITALIAN.																			
Udine	29.79	756.7	30.22	767.5	38.1	3.4	44	se.	3.1	1.4			8	s.		0	0		**Prof. Giovanni Clodig.**
Milan	29.67	753.5	30.20	767.1	40.3	4.6	67	se.	3.8	1.7			9	wsw.		0	0		**Prof. Schiapparelli.**
Padua	30.10	764.4	30.21	767.3	39.4	4.1	50	ene.	3.8	1.7			10			0	0		**Prof. Dott. Lorenzoni.**
Moncalieri	29.25	743.0	30.19	766.9	40.1	4.5	85	ne.	0.7	0.3			10			0	0		**Prof. F. F. Denza.**
Genoa	29.95	760.6	30.14	765.6	43.2	6.2	63	n.	0.3	2.8			10	n.		0	0		**Prof. G. M. Garibaldi.**
Mondovi	28.18	715.8	30.19	766.7	34.5	1.4	90	w.			2		10			0	0		Prof. D. C. Bruno.
Pesaro	30.14	765.6	30.19	766.9	41.4	5.2	63	ne.	0.3	2.8			6			0	0		**Prof. Luigi Guidi.**
Florence	29.87	758.8	30.13	765.4	46.0	7.8	50	n.			4		10			0	0		Prof. Costantino **Pittei.**
Leghorn	29.99	761.8	30.08	764.0	45.9	7.7	48	e.	10.5	4.7			10			0	0		**Prof. P. Monte.**
Rome	29.92	760.0	30.10	764.5	49.6	9.8	54	e.	1.3	0.6			6			0	0		**Prof. P. Tachini.**
Lecce	29.82	757.4	30.08	764.0	48.9	9.4	64	ne.	8.1	3.6			5	n.		0.079	2.0		**Prof. C. de Giorgi.**
Cosenza	29.17	740.8	30.08	763.9	51.8	11.0	75	wnw.	3.8	1.7			0			0	0		Prof. D. Conti.
Cagliari	29.87	758.6	30.06	763.6	57.2	14.0	51	calm			0		2	w.		0	0		Prof. A. Pacinotti.
Palermo	29.85	758.3	30.11	764.8	54.1	12.3	48	nw.	8.1	3.6			4	nw.		0	0		Prof. G. Caccia tore.
Syracuse	30.00	762.0	30.04	763.1	53.6	12.0	74	se.	5.6	2.5			7	se.		0.236	6.0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.58	751.3	30.12	765.1	47.7	8.7	51	ne.	4.3	1.9			1			0	0		Prof. F. Brioschi.
Stelvio	22.01	559.1			21.2 — 6.0		87	ne.			2		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.04	559.7			25.9 — 3.4		66	e.			2		10			0.197	5.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.08	763.9	30.11	764.7	34.5	1.4	75	nw.			2		10 n		w.	0.700	18.0	snowing	**H. Hattori.**
Awomori	30.00	762.0	30.03	762.7	33.3	0.7	76	wnw.	24.9	11.1			10 s		w.	0.177	4.5	overcast	K. Ogawa.
Hakodate	29.96	760.9	29.97	761.2	33.5	0.8	71	wnw.	24.0	11.0			9		nw.	0.108	2.7	overcast	
Hamamatsu	30.00	762.0	30.03	762.7	47.3	8.5	66	wnw.			7	7 cs	1 s	w.	w.	0.614	15.6	cloudy	
Kagoshima	30.21	767.3	30.22	767.6	47.9	8.8	81	nw.			2		9 s		w.	0	0	overcast	G. Miyanonaza.
Kioto	30.04	763.0	30.22	767.6	41.0	5.0	64	nnw.	13.8	6.2		1 cs	4 ck		n.	0.200	5.1	fair	M. Tojima.
Kochi	30.16	766.0	30.18	766.6	50.1	10.1	60	nne.	16.1	7.1			10		w.	0	0	overcast	K. Kusunose.
Minsaka	30.17	766.4	30.20	767.1	52.0	11.1	75	ne.			4	0	8ck;ks	wnw.		0	0	cloudy	K. Masusaki.
Nagasaki, I. M. Obs'y	30.07	763.8	30.28	769.1	46.4	8.0	72	nne.	3.3	1.4		1c;cs	0	wnw.		0	0	overcast	S. Takehayashi.
Niigata	30.17	766.3	30.21	767.3	38.8	3.8	64	wnw.	14.6	6.5		0	7 ck		w.	0.630	16.0	cloudy	M. Morita.
Nobiru	29.95	760.8	29.96	761.0	38.6	3.7	69	nnw.	26.5	11.9		0	0			0.100	2.5	clear	H. Midzushima
Numazu	29.87	758.8	29.91	759.7	49.9	9.9	94	calm			0		10 ks		sw.	0.669	17.0	cloudy	R. Kaneda.
Osaka	30.22	767.5	30.23	767.9	41.7	5.4	73	n.	15.1	6.7		4 ck	6ck;ks	nnw.	nnw.	0.330	8.4	cloudy	H. Omura.
Sakai	30.32	770.1	30.33	770.4	41.1	5.1	67	e.			6		10 ks		ne.	0.193	4.9	cloudy	K. Yamawchi.
Sapporo					35.0	1.7	98	nw.	18.0	8.0			10			0	0	covered	
Tokei Obs'y, Yeddo	29.87	758.6	29.94	760.6	45.6	7.6	60	nnw.	22.1	9.8		7 c;cs	0	w.		0.191	4.9	fair	The Staff.
Wakayama	30.15	765.7	30.20	767.1	44.2	6.8	69	n.	19.5	8.7		10 ck;cs	0	n.		0.462	11.7	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.64	752.8	29.83	757.7	81.2	27.3	76	wsw.	7.0	3.1		4ck;cs	3 n;ks	sw.		0	0	fair	Oliver & Figon.
MEXICAN.																			
Altata					45	7.2	92	e.	6.0	2.7								clear	H. Diaz Pena.
Guanajuato	23.77	603.8	29.99	761.8	50.9	10.5	92	calm	0	0		0	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.23	767.8	45.0	7.2	91	e.			1	2 c	1 ck			0	0	clear	Prof. M. Leal.
Mazatlan	29.77	756.1	30.03	762.8	57.0	13.9	52	nw.	5.3	2.3		0	0			0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.4	30.36	771.2	44.1	6.7	83	calm	0	0		0	0			0	0	fine	The Staff.
Morelia	24.38	619.2	30.34	770.6	51.6	10.9	66	s.			1	1 c	2 k	s.	s.	0?	5.5?		M. Tena, M. D.
Pabellon	24.03	610.4	30.15	765.7	45.1	7.3	79	nne.			2	0	0 s		s.	inap.	inap.	clear	
Puebla, Catholic Institute	23.43	595.4	30.32	770.0	45.5	7.5	81	calm	0	0		0	2		e.	0	0	clear	Prof. P. Spina.
Zacatecas	22.55	572.8	30.30	769.6	44.8	7.1	80	se.	7.1	3.2			10		ne.	0.22?	0?	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.07	763.7	30.07	763.7	46.0	7.8		w.			4					0.118	3.0		
Groningen	30.04	763.1	30.10	764.5	37.8	3.2		e.			1					0.012	0.3		
Helder																0	0		
Hellevoetsluis	30.04	762.9	30.04	762.9	44.1	6.7	79	wsw.			3					0.043	1.1		
Utrecht	30.02	762.5	30.07	763.7	43.7	6.5	82	ssw.			2		8			0.110	2.8	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.88	758.9			79.3	26.3	87	w.	0	0			5			0	0		**Dr. I. P. van der Stok.**
NORWEGIAN.																			
Bergen	30.21	767.3	30.27	768.9	35.2	1.8	67	ssw.	9	4			0			0	0		
Brono	30.14	765.6	30.18	766.6	38.8	3.8	40	s.			2		0			0	0		
Christiania	30.36	771.2	30.52	775.2	25.2 — 3.8		87	e.	4	2			8			0	0		
Gjæsvær	29.94	760.4	29.96	761.0	37.2	2.9		sw.			7		7						
Lodingen	30.10	764.6	30.15	765.8	35.8	2.1	63	wsw.			2		10			0.004	0.1		
PORTUGUESE.																			
Angra, Azores	30.42	772.6	30.58	776.6	56.3	13.5	67	ese.	9.4	4.2			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.06	738.0	30.08	763.9	50.5	10.3	64	ne.	12.5	5.6			9			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.22	767.6	30.31	769.9	61.2	16.2	73	n.	1.8	0.8			10			0.079	2.0	raining	Capt. D. A. de Cunha.
Lisbon, Observatory	29.85	758.1	30.22	767.5	51.3	10.7	67	nnw.	26.2	11.7			7			0.004	0.1	light rain	The Staff
Ponta Delgada, Azores	30.54	775.7	30.61	777.5	57.6	14.2	55	ese.	7.4	3.3			4			0.098	2.5		
Saint Paul de Loando	29.59	751.5	29.78	756.5	85.6	29.8	83	w.	0.7	0.3			3	sse.		0.031	0.8		
Serra da Estrella	25.26	641.5	30.21	767.4	27.7 — 2.4		100	nnw.	7.4	3.3			10					snow & fog	
RUSSIAN.																			
Akmolinski	29.11	739.4	30.31	769.8	5.2 — 14.9		91	sw.	22	10			10 n			0.004	0.1		Major K. Lasarew.
Archangel	30.67	778.9	30.69	779.4	26.6 — 3.0		91	sw.	2	1			10			0	0		Capt. Sselliwerstow.
Ashurada	30.59	776.9	30.49	774.5	40.8	4.9	75	nnw.	11	5		0*	3 ks;n			0	0		
Astrakhan	30.05	778.5	30.57	776.4	27.7 — 2.4		80	se.	7	3			0			0	0		Capt. Wisganow.
Baku	30.53	775.4	30.48	774.2	40.6	4.8	73	s.	4	2		0	7 k			0	0		
Barnaul	29.75	755.7	30.31	769.8	5.2 — 14.9		84	sw.	22	10			10			0.543	13.8		Meteorological Obs'y.
Bielosersk	30.21	767.3	30.71	780.1	25.9 — 3.4		86	nne.	4	2			10 s			0	0		
Dorpat	30.41	772.4	30.68	779.2	16.0 — 8.9		100	ese.	4	2			10 s			0.004	0.1	light snow	Observatory.
Ekaterinburg	29.33	744.9	30.37	771.3	19.0 — 7.2		93	n.	9	4			9			inap.	inap.	snowing	Meteorological Obs'y
Elissawetgrad	29.98	761.4	30.47	773.9	12.7 — 10.7		82	ne.	11	5			10 n			0	0		
Irkutsk	28.51	724.2	30.33	770.3	4.5 — 15.3		63	se.			3		8			0	0		
Kasalinsk	29.94	760.4	30.11	764.9	11.8 — 11.2		71	sw.	4	2			10 s						
Kasan	30.25	768.3	30.54	775.7	21.7 — 5.7		74	n.	4	2			10			0	0		Observatory.
Kem	30.58	776.7	30.63	778.0	27.3 — 2.6		87	sw.	13	6			10			0	0	heavy cl'ds.	
Kertch	30.28	769.1	30.30	769.6	23.0 — 5.0		98	nw.	4	2			10			0	0		Lagorio & Sastyrez.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
												Upper.	Lower.	Upper.	Lower.				
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Kieff	29.89	757.0	30.51	775.0	7.7	—13.5	96	ne.	4	2			toks;n			0.008	0.2		Observatory.
Koslov	29.90	761.7	30.58	776.6	7.7	—13.5	88	wsw.	4	2			10 s			0	0		
Libau	30.56	776.1	30.58	776.7	28.6	— 1.9	35	e.	7	3			c			0	0		**E. Quaas.**
Lugan	30.16	766.0	30.36	771.2	17.2	— 8.2	75	ene.	22	10			10			0	0		Meteorological Obs'y.
Moscow	30.02	762.5	30.55	775.9	17.1	— 8.3	88	calm	0	0			9 n			0.008	0.2	light snow.	**Meteorological Obs'y**
Nikolaiev	30.33	770.3	30.40	772.2	18.5	— 7.5	97	calm	0	0			10 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.95	760.7	30.04	762.9	8.2	—13.2	84	w.	11	5			10			0.063	1.6		**Iwanow.**
Pekin, China	30.34	770.6	30.49	774.4	30.2	— 1.0	57	sw.	7	3		0	7 n			0	0		**Physical Observatory.**
Petro-Alexandrovsk	30.23	767.9	30.61	777.6	26.6	— 3.0	51	sw.	1.1	0.5		0	0			0	0		
Petrozavodsk	30.50	774.6	30.71	780.0	24.4	— 4.2	93	n.	7	3			10			0.024	0.6	light clouds	**Dr. Bergmann.**
Pinsk	29.99	761.8	30.53	775.5	18.7	— 7.4	83	e.	9	4			10 s			0	0	light clouds	
Poti	30.24	768.2	30.26	768.7	53.6	12.0	52	calm	0	0		0	0			0	0		
St. Petersburg	30.69	779.6	30.71	780.0	22.3	— 5.4	100	nne.	4	2			10 n			blank	blank		Central Physical Obs'y.
Samarkand	27.92	709.2	30.58	776.6	26.1	— 3.3	49	calm	0	0		0	0						
Semipalatinsk	29.78	756.5	30.51	774.9	4.1	—15.4	77	sw.	9	4			9			0	0		Major Lasarew.
Sevastopol	30.08	763 9	30.31	769.9	30.7	— 0.7	96	nne.	16	7			10 n			0.020	0.5	heavy clouds	
Staroi Bykhov	30.08	764.0	30.59	776.9	14.2	— 9.9	58	calm	0	0						0	0		
Tashkend	28.80	731.5	30.63	777.9	20.8	— 6.2	55	calm	0	0		0	0			0	0		**Terch, A. M.**
Tiflis	28.99	736.3	30.48	774.2	36.7	2.6	55	se.	2	1		0	0			blank	blank		Physical Observatory.
Vernoe	27.79	705.8	30.52	775.2	14.5	— 9.7	65	calm	0	0		0	2 k						
Viatka	29.90	759.5	30.58	776.8	20.5	— 6.4		n.	2	1			10			0	0		
Vladivostock	30.28	769.0	30.34	770.7	5.0	—15.0	28	n.	7	3			0			0.004	0.1		
Warsaw	29.98	761.5	30.44	773.1	23.7	— 4.6	56	n.	16	7		0	0			0	0		Astronomical Obs'y.
Wilna	30.13	765.4	30.60	777.1	18.3	— 7.6	55	se.	2	1			0			0	0		**Berg, Assistant.**
Yeniseisk	29.97	761.1	30.31	769.8	—27.4	—33.0	77	w.	2	1			2			0	0		**M. O. Marks.**
Scottish.																			
Monach Lt			29.85	758.2	47	8.3	92	ssw.			7		10			0	0	threatening.	J. Youngclause.
North Unst			29.89	759.2				s.			7		10						**Robt. Burnet.**
Spanish.																			
Barcelona, Met. Obs'y	30.00	762.0	30.11	764.7	48.6	9.2	82	ne.	4.9	2.2			10			0.299	7.6	raining	Antonio Rzve, Director.
Bilbao, Met. Obs'y	30.19	766.8	30.25	768.3	47.3	8.5	85	nw.	0.4	0.2		2	3	sw.		0.693	17.6	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.12	688.8	30.26	768.7	35.6	2.0	96	n.	6.3	2.8		0	6			0.323	8.2	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.76	705.2	30.07	763.8	40.1	4.5	87	ne.	22.4	10.0			10			0.331	8.4	rainy	The Staff.
Murcia, Met. Obs'y	29.82	757.4	29.97	761.2	59.4	15.2	85	e.	1.8	0.8		5	5	wsw.		0.075	1.9	covered	Olayo Diaz, Director.
Oviedo	29.35	745.5	30.23	767.8	40.1	4.5	92	e.	2.1	0.9		4 k	4 kn	e.	e.	0.110	2.8	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.29	744.0	30.22	767.5	46.2	7.9	87	ne.	9.4	4.2			4			0.110	2.8	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.98	761.5	30.04	762.9	76.4	24.7	68	ene.	3.3	1.5		c	2 k		ese.	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.03	762.8	30.13	765.4	51.1	10.6	74	wnw.	13.4	6.0			10		nw.	inap.	inap.	light rain	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.00	762.1	30.10	764.4	74.5	23.6	94	ne.	18.3	8.2		3 k	6 kn	ne.	ne.	0.276	7.0	overcast	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	30.51	775.0	30.55	776.0	24.8	— 4.0	95	sw.			4		10			0	0		
Umea	30.54	775.7	30.59	777.0	28.8	— 1.8	88	sw			4		8			0	0		
Hernosand	30.33?	770.3?	30.38?	771.6?	32.4	0.2	96	s.			2		8			0	0		
Stockholm	30.43	772.8	30.60	777.3	31.3	— 0.4	55	se.			2		0			0	0		
Wisby	30.50	774.7	30.56	776.2	32.4	0.2	81	ese.			2		0			0	0		
Sub-series.																			
Upsala	30.49	774.5	30.58	776.7	14.5	— 9.7	100	nnw.	1.6	0.7			0			0	0		S. G. Fineman.
Swiss.																			
Geneva	28.69	728.7	30.15	765 8	43.2	6.2	71	nne.			2		9			0	0	covered	The Observatory.
Turkish.																			
Constantinople			30.23	767.9	37.8	3.2	89	n.	19	8.5			10		ne.	0.098	2.5		The Observatory.
Valona			30.09	764.2	50.4	10.2		nw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.99	761.7	64.9	18.3	57	ne.			3		0			0	0		Prof. C. V. A. van Dyck.
Samokov, Bulgaria																			**Fred L. Kingsbury.**
United States.																			
Albany, New York	30.33	770 4	30.42	772.7	24	— 4.4	73	s.	4	1.8		7 cs	0	w.		0	0	fair	J. C. Barnes.
Alpena, Michigan	29.74	755.4	30.45	773.4	12	—11.1	80	w.	8	3.6			10 s		w.	0.02	0.5	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.20	640.1	30.30	769.6	28	— 2.2	70	sw.	3	1.3		0	0			0	0	clear	W. C. Barnes.
Assiniaboine, Ft., Montana	27.27	692.6	30.31	769.9	38	3.3	73	sw.	32	14.3			10 s		sw.	inap.	inap.	cloudy	B. G. Lenoir.
Athanta, Georgia	29.28	743.7	30.50	774.7	35.5	1.9	89	ne.	6	2.7		0	3 s			0.03	0.8	clear	H. C. Smyth.
Atlantic City, New Jersey	30.49	774.4	30.50	774.7	22	— 5.6	44	nw.	4	1.8		2 cs	0			0.05	1.3	clear	Jas. M. Watson.
Augusta, Georgia	30.31	769.9	30.51	774.9	43	6.1	60	ne.	10	4.5		0	9 s		sw.	0.07	1.8	cloudy	John Healy.
Baltimore, Maryland	30.59	774.7	30.55	776.0	29	— 1.7	77	nw.	2	0.9		3 c	fg.	w.		0.09	2.3	clear	Geo W Felger.
Barnegat, New Jersey	30.47	773.9	30.49	774.4	28.0	— 2.2	64	nw.	12	5.4		3 k	0	nw.		0.06	1.5	clear	G. A. Hill.
Behring Id., Behring Sea	30.55	776.0	30.57	776.5	26.2	— 3.2		sw.	10	4.5		0	1 k		sw.	0	0	clear	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.79	731.3	30.52	775.2	17	— 8.3	83	se.	1	0.4		3 c	2 s			0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.40	695.9	30.40	772.1	42	5.6	68	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.94	684.3			33	0.6	62	sw.	30	13.4		2 c	6 s	w.	sw.	0.01	0.3	cloudy	T. Gibson.
Bismarck, Dakota	28.47	723.1	30.45	773.4	15	— 9.4	83	se.	10	4.5			10 s			0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.44	773.2	30.47	773.9	29	— 3.3	64	nw.	8	3.6		9 cs	0	nw.		inap.	inap.	cloudy	J. T. Elker.
Boise City, Idaho	27.52	699.0	30.48	774.2	19.3	— 7.1	91	w.	3	1.3		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.26	768.6	30.42	772.7	20.7	— 6.3	57	sw.	7	3.1		0	9 s			0.12	3.0	cloudy	O. B. Cole.
Brownsville, Texas	30.44	773.2	30.49	774.4	42.8	6.0	61	n.	10	4.5			10 s			0.15	3.8	cloudy	M. McCarty.
Buffalo, New York	29.61	752.1	30.41	772.4	23.7	— 4.6	85	sw.	28	12.5			10 s		sw.	inap.	inap.	cloudy	W. Finn.
Buford, Fort, Dakota	28.20	716.3	30.38	771.6	13	—10.6	87	ne.	4	1.8			10 s			0	0	cloudy	F. A. Mellen.
Burlington, Vermont	29.96	761.0	30.27	768.8	21.9	— 5.6	73	s.	19	8.5		1 cs	9 s	w.	w.	0	0	cloudy	D. N. Farnell.
Cairo, Illinois	30.24	768.1	30.66	778.7	30.5	— 0.8	72	n.	3	1.3		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.52	775 2	30.54	775.7	34	1.1	71	n.	9	4.0		0	0			0.60	15.2	clear	A. K. Alderson.
Cape May, New Jersey	30.48	774 2	30.51	774.9	33.0	0.6	60	nw.	14	6.3		0	0			0.11	2.8	clear	W. E. Smith.
Cape Mendocino, California	29.55	750 6	30.25	768.3	57	13.9	36	nw.	24	10.7		5 ck	hz.	nw.		0	0	fair	J. J. McLean.
Cedar Keys, Florida	30.27	768.8	30.29	769.4	58	14.4	81	ne.	13	5.8		5 ck	3 ks		nw.	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	29.69	754.1	30.56	776.2	24.8	— 4.6	73	sw.	8	3.6			10 s		sw.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.37	771.4	30.43	772.9	41	5.0	92	n.	12	5.4			10 s		ne.	0.04	1.0	threatening	J. H. Smith.
Charlotte, N. Carolina	29.66	753.4	30.55	776.0	32.0	0.0	88	n.	2	0.9		0	fg.			0.39	9.9	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.70	754.4	30.56	776.2	35.0	1.7	66	ne.	8	3.6		9 ck	0	n.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.28	616.7	30.53	775.4	23.3	— 4.8	56	w.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.75	755.6	30.50	774.7	26.2	— 3.2	84	sw.	5	2.2		0	2 s		e.	inap.	inap.	clear	J. Mitchell.
Chincoteague, Virginia	30.50	774.7	30.52	775.2	30	— 1.1	78	n.	8	3.6		0	0			0.09	2.3	clear	C. F. Dickens.
Cincinnati, Ohio	29.91	759.7	30.60	777.2	30	— 1.1	88	nw.	4	1.8			10 s		nw.	0	0	cloudy	R. B. Watkins.
Cleveland, Ohio	29.72	754.9	30.51	774.9	25.5	— 3.6	69	w.	7	3.1		10 cs	0	nw.		inap.	inap.	cloudy	J. B. Newlin.
Coleman City, Texas	28.69	728.7	30.57	776.5	27	— 2.8	77	n.	4	1.8		0	3 s			0	0	clear	L. Dorman.
Columbus, Ohio	29.66	753 4	30.56	776.2	28	— 2.2	77	sw.	8	3.6			10 s			0.01	0.3	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.58	725 9	30.60	777.2	32.2	0.1	60	calm	0	0			10 s			0	0	cloudy	J. McGlone.
Davenport, Iowa	29.89	759.9	30.50	774.7	30	— 1.1	68	sw.	4	1.8		3 ck	fg.	w.		0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.59	647.7	30.46	773.7	31	— 0.6	74	ne.	8	3.6			10 s			0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.60	726.4	30.41	772.4	32	0.0	94	n.	2	0.9			10 s			0.29	7.4	cloudy	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.56	649.2	30.48	774.2	32	0.0	81	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.50	774.7	30.52	775.2	29	— 1.7	77	nw.	9	4.0	.....	0	2 k	.....	.....	0.06	1.5	clear	T. S. Townsend.
Denison, Texas	29.79	756.7	30.63	778.0	27.0	— 2.8	88	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Denver, Colorado	25.93	635.8	30.58	776.0	21.5	— 5.8	82	s.	7	3.1	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.61	752.1	30.58	776.7	26	— 3.3	64	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.74	755.4	30.49	774.4	25.5	— 3.6	84	sw.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy	E. R. Brace.
Dodge City, Kansas	27.81	706.4	30.55	776.0	26	— 3.3	67	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	V. P. Temple.
Dubuque, Iowa	29.77	756.1	30.53	775.4	25	— 3.9	73	calm	0	0	.....	0	3 ks	.....	ne.	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.70	754.4	30.51	774.9	6	—14.4	76	nw.	1	0.4	.....	0	1 s	.....	nw.	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.75	755.6	30.59	777.0	39.0	3.9	89	se.	4	1.8	.....	.....	10 n	.....	.....	0.04	1.0	light rain	F. Belford.
Eagle Rock, Idaho	25.66	651.8	30.56	776.2	4	—15.6	79	n.	5	2.2	.....	6 cs	0	n.	.....	0	0	fair	J. M. Clifford.
Eastport, Maine	30.24	768.1	30.32	770.1	16.0	— 8.9	67	sw.	6	2.7	.....	2 c	3 s	w.	w.	0	0	fair	D. C. Murphy.
Elliott, Fort, Texas	27.68	703.1	30.58	776.7	27	— 2.8	67	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
El Paso, Texas	26.57	674.9	30.45	773.4	38.8	3.8	65	w.	8	3.6	.....	.....	10 s	.....	w.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.71	754.6	30.48	774.2	27	— 2.8	86	w.	11	4.9	.....	.....	10 ks	.....	w.	0.01	0.3	cloudy	Peter Wood.
Escanaba, Michigan	29.80	756.9	30.52	775.2	7.0	—13.9	76	w.	8	3.6	.....	0	2 s	.....	w.	0	0	clear	George Heathcote.
Fredericksburg, Texas	28.71	729.2	30.51	774.9	35	1.7	72	no.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	Frank Halwegler.
Galveston, Texas	30.41	773.2	30.49	774.4	38	3.3	62	ne.	20	8.9	.....	9 cs	0	.....	.....	0.01	0.3	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.75	755.6	30.46	773.7	28.5	— 1.9	82	w.	10	4.5	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.29	642.4	30.15	765.8	22	— 5.6	64	se.	28	12.5	.....	0	0	.....	.....	0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.44	773.2	30.46	773.7	39	3.9	73	ne.	30	13.4	.....	4 ck	3 k	se.	ne.	0.33	8.4	fair	R. M. Crawford.
Helena, Montana	26.04	661.4	30.44	773.2	35	1.7	82	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	N. C. Smith.
Henrietta, Texas	29.56	750.8	30.62	777.7	24	— 4.4	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Huron, Dakota	29.06	738.1	30.58	776.7	16.3	— 8.7	48	nw.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.70	754.4	30.55	776.0	28.0	— 2.2	64	sw.	4	1.8	.....	0	9 s	.....	w.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.51	774.9	30.54	775.7	40.2	4.6	55	n.	23	10.3	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	I. A. Reed.
Jacksboro, Texas	29.38	746.2	30.62	777.7	25	— 3.9	64	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Jacksonville, Florida	30.32	770.1	30.36	771.1	51	10.6	93	n.	7	3.1	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.68	703.1	30.36	771.1	21	— 6.1	73	calm	0	0	.....	4 c	4 s	nw.	.....	inap.	inap.	cloudy	A. Schneider.
Keokuk, Iowa	29.84	757.9	30.58	775.7	28.0	— 2.2	77	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.15	765.8	30.17	766.3	73.0	22.8	90	e.	11	4.9	.....	0	3 ks	.....	e.	0.01	0.3	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.50	774.7	30.52	775.2	37	2.8	61	ne.	32	14.3	.....	0	0	.....	.....	0.61	15.5	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.48	748.8	30.56	776.2	27.8	— 2.3	84	n.	4	1.8	.....	0	0	.....	.....	0.02	0.5	clear	J. A. Cody.
La Crosse, Wisconsin	29.70	754.4	30.54	775.7	16	— 8.9	67	n.	6	2.7	.....	0	4 s	.....	.....	0	0	fair	S. C. Emery.
Leavenworth, Kansas	29.63	752.6	30.58	776.7	28	— 2.2	77	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.59	751.6	30.46	773.7	40.0	4.4	73	ne.	10	4.5	.....	.....	10 s	.....	.....	0.33	8.4	cloudy	W. Bell.
Little Rock, Arkansas	30.28	769.1	30.61	777.5	29	— 1.7	77	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.69	754.1	30.09	764.3	53	11.7	48	e.	5	2.2	.....	1 c	0	w.	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.98	761.5	30.58	776.7	31	— 0.6	57	ne.	3	1.3	.....	10 ck	0	w.	.....	0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.80	756.0	30.52	775.2	31	— 0.6	88	se.	1	0.4	.....	0	fg.	.....	.....	0.12	3.0	clear	Louis Dunne.
Mackinaw City, Michigan	29.77	756.1	30.47	773.9	11.0	—11.7	61	nw.	11	4.9	.....	0	0	.....	.....	0.25	6.3	clear	F. R. Day.
Macon, Fort, North Carolina	30.46	773.7	30.47	773.9	37.0	2.8	82	n.	22	9.8	.....	.....	9 s	.....	n.	0.27	6.9	cloudy	William Daly.
Madison, Wisconsin	29.44	747.8	30.52	775.2	18	— 7.8	67	n.	10	4.5	.....	10 cs	0	.....	.....	0	0	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.03	651.0	30.17	766.3	43	6.1	31	w.	16	7.2	.....	10 k	0	w.	.....	0	0	cloudy	F. Burke.
McKavett, Fort, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thatcher.
Marquette, Michigan	29.70	754.4	30.48	774.2	9	—12.8	76	nw.	8	3.6	.....	8 k	0	nw.	.....	0.01	0.3	cloudy	J. Gilligan.
Memphis, Tennessee	30.26	768.6	30.02	777.7	24	— 4.4	73	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.71	754.6	30.51	774.9	24	— 4.4	73	n.	7	3.1	.....	0	9 s	.....	n.	0	0	cloudy	W. Line.
Missoula, Fort, Montana	27.01	686.0	30.44	773.2	32	0.0	74	calm	0	0	.....	.....	10 s	.....	.....	0.04	1.0	threatening	I. H. Young.
Mobile, Alabama	30.37	771.4	30.41	772.4	41	5.0	82	n.	9	4.0	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	C. A. Read.
Montgomery, Alabama	30.18	766.6	30.42	772.7	45.5	7.5	83	ne.	8	3.6	.....	.....	10 s	.....	ne.	0	0	cloudy	J. B. McLaughlin
Moorhead, Minnesota	29.48	748.8	30.58	776.7	— 7	—21.7	100	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.51	749.5	30.58	776.7	30.3	— 0.9	88	sw.	4	1.8	.....	0	8 s	.....	w.	0	0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.52	597.4	30.14	765.5	— 4.0	—20.0	100	nw.	48	21.5	.....	.....	fg.	.....	nw.	0	0	dense fog	S. W. Beall.
Nashville, Tennessee	29.98	761.5	30.59	777.0	28.0	— 2.2	77	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.33	770.4	30.45	773.4	14.5	— 9.7	100	calm	0	0	.....	.....	10s;fg	.....	.....	0.07	1.8	cloudy	J. H. Sherman.
New London, Connecticut	30.43	772.9	30.48	774.2	23	— 5.0	73	nw.	4	1.8	.....	.....	9 ks	.....	.....	0.07	1.8	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.35	770.9	30.41	772.4	43.0	6.1	68	n.	11	4.9	.....	5 c	0	w.	.....	0	0	fair	L. Dunne.
Newport, Rhode Island	30.41	772.4	30.46	773.7	24.3	— 4.3	66	w.	8	3.6	.....	5 cs	4 s	nw.	w.	0.09	2.3	cloudy	W. McGillivray.
New York, New York	30.30	769.6	30.49	774.4	22.5	— 5.3	78	w.	4	1.8	.....	8 cs	fg.	.....	n.	0.07	1.8	cloudy	J. B. Merrill.
Norfolk, Virginia	30.51	774.9	30.54	775.7	34	1.1	78	n.	7	3.1	.....	0	3s;hz	.....	.....	0.52	13.2	clear	Wm. Davis.
North Platte, Nebraska	27.46	697.5	30.56	776.2	19.6	— 8.6	78	w.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.30	769.6	30.34	770.6	42.0	5.6	92	calm	0	0	.....	.....	10 n	.....	.....	0.38	9.7	light rain	J. Dascomb.
Omaha, Nebraska	29.31	744.5	30.58	776.7	27.5	— 2.5	76	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Ooglaamie, Alaska	30.06	763.5	30.68	764.0	2.8	—16.2	.....	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	P. H. Ray.
Oswego, New York	29.97	761.2	30.32	770.1	28.5	— 1.9	66	sw.	6	2.7	.....	.....	10 s	.....	nw.	0.03	0.8	cloudy	J. G. Linsley.
Palestine, Texas	30.02	762.5	30.66	777.2	31.0	— 0.6	57	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.35	770.9	30.38	771.6	42.2	5.7	92	n.	12	5.4	.....	.....	10 s	.....	n.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.41	772.4	30.52	775.2	31	— 0.6	57	nw.	5	2.2	.....	0	9ks;s	.....	sw.	inap.	inap.	cloudy	E. M. Mattison.
Pike's Peak, Colorado	17.96	456.2	30.68	779 3	16	— 8.9	67	sw.	.....	.....	0	0	0	.....	.....	0	0	clear	H. Hall.
Ploche, Nevada	24.27	616.4	30.43	772.9	31.2	— 0.4	52	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.68	753.9	30.54	775.7	28.0	— 2.2	64	sw.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	W. A. Reid.
Poplar River, Montana	28.03	711.9	30.38	771.6	.....	.....	.....	nw.	.....	.....	1	.....	10 s	.....	.....	c	0	cloudy	W. D. Maxwell.
Port Eads, Louisiana	30 35	770.9	30.36	771.1	50.1	10.1	86	ne.	20	8.9	.....	.....	10 s	.....	ne.	0	0	cloudy	H. B. Boyer.
Port Huron, Michigan	29.71	754.6	30.44	773.2	23.2	— 4.9	84	sw	10	4.5	.....	10 cs	0	.....	.....	0	0	cloudy	W. O. Bailey.
Portland, Maine	30.29	769.4	30.34	770.6	16	— 8.9	67	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger
Portland, Oregon	30.30	769.6	30.37	771.4	37.8	3.2	89	ne.	4	1.8	.....	.....	10 n	.....	n.	0.82	20.8	light rain	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	40	4.4	82	ne.	33	14.8	.....	4 k	3 ks	ne.	ne.	0.29	7.4	fair	F. S. Coburn.
Prescott, Arizona	24 92	633.0	30.28	769.1	25.0	— 3.9	73	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass	30.40	772.1	30.43	772.9	21.5	— 5.8	73	sw.	8	3.6	.....	0	7 s	.....	.....	0.10	2.5	fair	P. T. Jenkins.
Punta Rassa, Florida	30.20	767.1	30.21	767.3	67	19.4	78	e.	4	1.8	.....	1 c	0	.....	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.87	758.7	30.24	768.1	47	8.3	68	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	29.64	752.8	30.36	771.1	25	— 3.9	73	w.	24	10.7	.....	.....	10 k	.....	w.	0.02	0.5	cloudy	E. W. McGann
Roseburg, Oregon	29.80	756.9	30.38	771.6	45	7.2	87	se.	1	0.4	.....	.....	10 s	.....	sw.	0.11	2.8	threatening	J. J. Nanry.
Sacramento, California	30.14	765.5	30.22	767.6	44.4	6.9	83	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.97	761.2	30.61	777.5	26.0	— 3.3	88	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.93	760.2	29.99	761.0	16	—18.9	83	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt
St. Paul, Minnesota	29.61	752.1	30.55	776.0	9.0	—12.8	76	n.	1	0.4	.....	1 cs	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.66	751.8	30.57	776.5	— 7	—21.7	76	se.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	C. B Dilley.
Salt Lake City, Utah	26.03	661.2	30.59	777.0	19	— 7.2	50	calm	0	0	.....	2 c	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.82	757.4	30.54	775.7	30.5	4.2	73	n.	8	3.6	.....	8 cs	0	.....	.....	0	0	cloudy	T. J. Kenan.
San Diego, California	29.96	761.0	30.03	762.7	48.2	9.0	50	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.78	756.4	30.50	774.7	28	— 2.2	77	w.	12	5.4	.....	6 cs	0	w.	.....	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.45	773.4	30.48	774.2	25.0	— 3.9	73	w.	6	2.7	.....	8 k	0	w.	.....	0.09	2.3	cloudy	B. A. Blundon.
San Francisco, California	30.14	765.5	30.21	767.3	45.5	7.5	93	n.	1	0.4	.....	2 cs	0	w.	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.47	596.1	30.55	776.0	26	— 3.3	58	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.33	770.4	30.42	772.7	42	5.6	89	n.	12	5.4	.....	.....	10 ks	.....	n.	0.22	5.6	threatening	H. W. Ford.
Shaw, Fort, Montana	26.51	673.3	30.36	771.1	41	5.0	67	sw.	21	9.4	.....	4 k	0	nw.	.....	0	0	fair	A. L. Mathews.
Shreveport, Louisiana	30.32	770.1	30.57	776.5	31	— 0.6	68	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	29.33	745.0	30.04	778 2	23.5	— 4.7	72	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.45	621.0	30.30	769.6	32.0	0.0	65	se.	6	2.7	.....	.....	10 s	.....	se.	0	0	cloudy	N. D. Lane.
Sitka, Alaska	29.76	755.9	29.83	757.7	37	2.8	82	e.	10	7.2	.....	.....	10 s	.....	e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	30.15	765.8	30.65	778.5	25.0	— 3.9	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.42	772.7	30.46	773.7	37	2.8	82	ne.	12	5.4	.....	.....	10 s	.....	.....	0.20	5.1	cloudy	O. Parker.

STATIONS.	Barometer: Corrected for instrumental error and for temperature.		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.34	719.8	30.47	773.9	36.3	2.4	95	se.	1	0.4	.....	.....	10 n	.....	.....	0.31	7.9	light rain	H. Clifford.
Springfield, Illinois	29.83	757.7	30.56	776.2	30	— 1.1	74	sw.	10	4.5	.....	0	1 s	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Missouri	29.10	739.1	30.61	777.5	24.0	— 4.4	73	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Starkville, Miss	30.05	763.3	30.55	776.0	29	— 1.7	88	n.	10	4.5	.....	0	7 s	.....	n.	0	0	fair	C. Dill.
Stevenson, Fort, Dakota	28.41	721.6	30.43	772.9	11	—11.7	80	e.	5	2 2	.....	.....	10 s	.....	.....	0	0	cloudy	A. Schneider.
Stockton, Fort, Texas	27.40	695.9	30.53	775.4	37	2.8	56	e.	2	0.9	.....	.....	10 s	.....	e.	0	0	cloudy	A. J. Warren.
Thatcher's Island, Mass	30.36	771.1	30.42	772.7	21.8	— 5.7	80	w.	16	7.2	.....	0	0	.....	.....	inap.	inap.	clear	G. Liebmann.
Thomas, Camp, Arizona	27.48	769.0	30.31	769.9	43	6.1	68	s.	.....	.....	2	0	6 ks	.....	.....	0	0	fair	J. T. Fitzgerald.
Toledo, Ohio	29.74	755.4	30.48	774.2	28	— 2.2	64	sw.	10	4.5	.....	9 c	0	w.	.....	0	0	cloudy	A. Buell.
Tucson, Arizona	27.62	701.5	30.10	764.5	51	10.6	33	e.	17	7.6	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.12	765.0	30.50	774.7	33	0.6	88	calm	0	0	.....	.....	10 s	.....	.....	0.25	6.6	cloudy	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	35.6	2.0	64	n.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	30.27	768.8	30.54	775.7	30.5	— 0.8	65	n	8	3.6	.....	0	0	.....	.....	0	0	clear	James Kenealy.
Visalia, California	29.83	757.7	30.21	767.3	38.7	3.7	78	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	O. D. Stewart
Washakie, Fort, Wyoming	24.74	628.4	30.50	774.7	4.9	—15.6	87	w.	2	0 9	.....	1 k	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C	30.44	773.2	30.56	776.2	25.0	— 3.9	80	calm	0	0	.....	0	0	.....	.....	0.15	3.8	clear	B. M. Purssell.
West Las Animas, Colorado	26.37	669.8	30.50	774.7	10.5	— 8.6	62	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg
Williamsport, Pa	29.87	758.7	30.50	774.7	28	— 2.2	59	w.	6	2.7	.....	.....	10 s	.....	w.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.41	772.4	30.47	773.9	37	2.8	72	ne.	10	4.5	.....	.....	10 s	.....	n.	0.41	10.4	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.95	659.1	30.47	773.9	31.5	— 0.3	76	calm	0	0	.....	6 c	0	nw.	.....	0	0	fair	J. Grover.
Yankton, Dakota	29.15	740.4	30.57	776.5	18	— 7.8	67	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.90	759.4	30.05	763.3	48.5	9.2	36	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	21.96	557.8	.....	.....	55.0	12.8	74	calm	0	0	.....	1 c	5 ks	w.	w.	0.73	18.5	fair	Joaquin Gomez.
Kingston, Jamaica, W. I	30.04	763.0	30.05	763.3	69	20.6	92	calm	0	0	.....	0	1 s	.....	.....	0.01	0.3	clear	Robert Johnston.
Paramaribo, S. A	29 97	761 2	29.97	761.2	78	25.6	86	e.	.....	.....	2	.....	8 ks	.....	e.	0.240	6.1	cloudy	Dr. C. J. Herrog.
Puerto Berrio, U. S. Colombia	29.34	745.2	29.90	759.4	76	24.4	94	calm	.....	.....	0	.....	10 ks	.....	calm	0.05	1.3	cloudy	Francisco J. Olsneros.
Rivas, Nicaragua, C. A	.....	.....	.....	.....	75.2	24.0	92	ne.	.....	.....	5	0	9 ks	.....	ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.60	751.8	29.66	753.4	33	0.6	78	ne.	.....	.....	4	.....	10 n	.....	.....	0.28	7.1	light snow	W. J. Fisher.
St. Thomas, W. I	29.94	760.5	30.07	763 8	74	23.3	64	ne.	.....	.....	.....	2 k	4 k	ne.	ne.	0	0	fair	Aug. Wallon.
Havana, Cuba	30.07	763.8	30.13	765.3	66.6	19.2	91	se.	4	1.8	.....	0	1 ks	.....	e.	0	0	clear	Benito Vines, S. J.
York Factory H. B. A	30.01	762.2	30.08	764.0	23.0	—30.6	.....	w.	28	12.5	.....	0	0	.....	.....	inap.	inap.	.....	Fortesque & Wood.

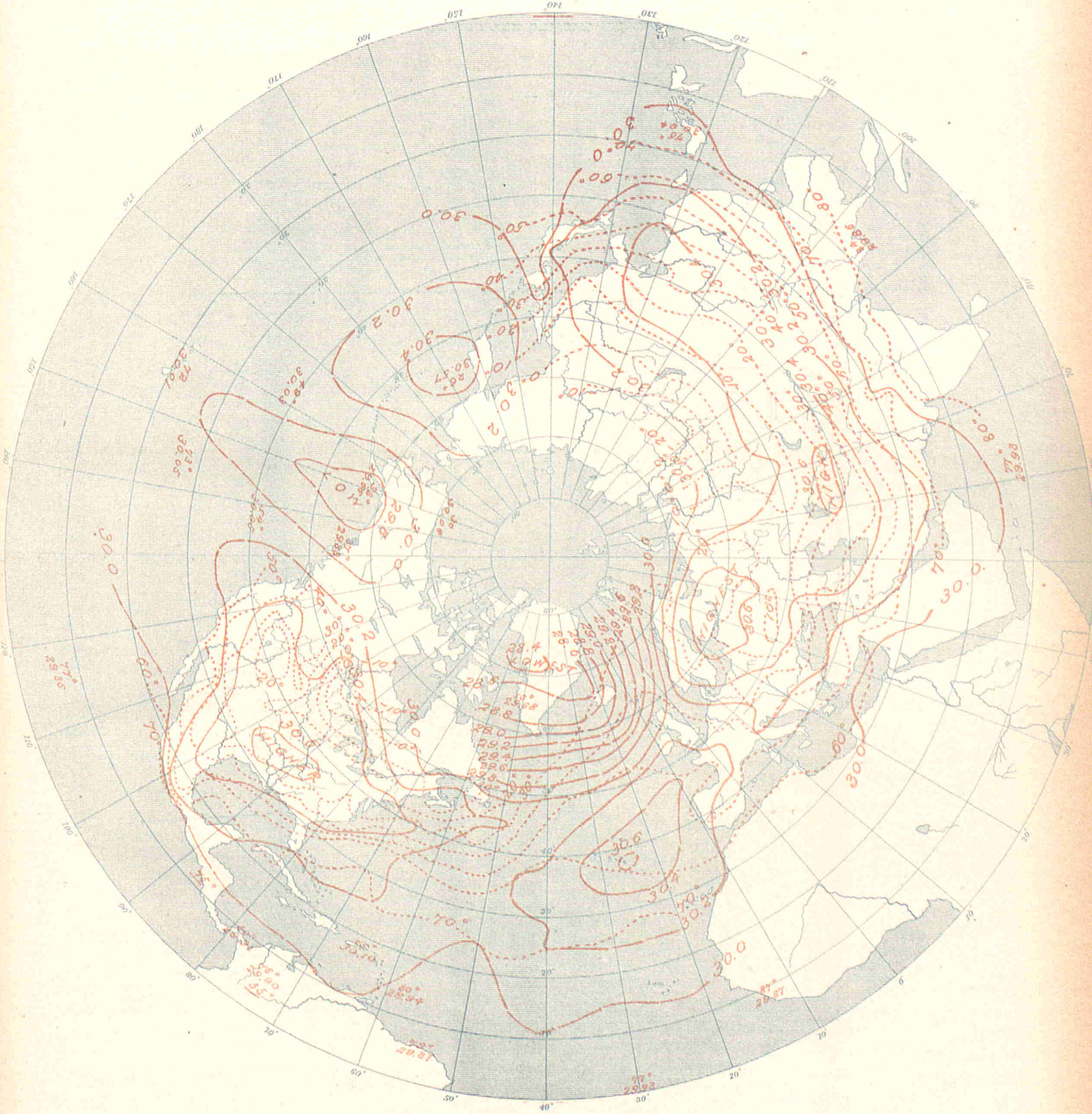
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell: Character.	Sea-swell: Direction from	Weather.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Condor, N. 35° 15′, E. 17° 47′	30.06	763.5	56	13.3	87	n.	.....	.....	6	.....	6	n.	.....	.....	.....	7	nnw.	d. clouds.
H. M. Dock-Yard, Bermuda, W. I	30.15	765.8	67	19.4	84	wnw	.....	.....	1	.....	3	wnw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Dido, N. 26° 39′, W. 66° 22′	30.22	767.6	69	20.6	.....	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	2	n.	drizzling.
H. M. S. Fawn, N. 30° 49′, W. 32° 14′	30.31	769.9	66	18.9	78	ene.	.....	.....	5	.....	3	.....	.....	.....	.....	4	ene.	d. clouds.
H. M. S. Iron Duke, N. 48° 40′ W. 5° 12′	30.30	769.6	48	8.9	85	nne.	.....	.....	1–2	.....	4	nnw.	.....	.....	.....	4	wnw.	d. clouds.
H. M. S. Monarch Port Said, Egypt	29.92	760.0	67	19.4	64	ne.	.....	.....	3	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Minotaur, Vigo Bay, Spain	30.22	767.6	50	10.0	71	nne.	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Tyne, N. 11° 49′, W. 34° 00′	29.96	761.0	74	23.3	81	ne.	.....	.....	3	.....	1	.....	.....	.....	.....	3	nne.	blue sky.
H. M. Frigate Vanadis, N. 36° 51′, E. 15° 34′	30.07	763.7	53.8	12.1	71	nne.	.....	.....	2	.....	5	.....	.....	.....	.....	.....	.....	misty.
U. S. Navy Yard, Portsmouth, N. H*	30.37	771.4	14	—10.0	7	w.	2	0.9	.....	.....	2	.....	.....	w.	o	o	.....	fair.
U. S. S. Alliance, Havana, Cuba	30.14	765.5	72	22.2	90	e.	.....	.....	1	.....	0	.....	.....	o	o	.....	.....	clear.
U. S. S. Kearsarge, Cartagena, U. S. C	29.81	757.2	74	23.3	90	ene.	.....	.....	1	.....	2	.....	e.	.....	.....	.....	.....	fair.
U. S. S. Lancaster, Plymouth, Eng	30.24	768.1	51	10.6	72	nnw.	.....	.....	3	.....	5	.....	nw.	.....	.....	sm'h	.....	fair.
U. S. S. Nipsic, N. 33° 46′, W. 73° 39′	30.31	769.9	61	16.1	82	ne.	.....	.....	4	.....	10	.....	ne.	.....	.....	mod.	ne.	cloudy.
U. S. S. Portsmouth, Bridgetown Barbadoes	29.96	761.0	74	23.3	95	ne.	.....	.....	1	.....	8	.....	e.	.....	.....	sm'h	e.	cloudy.
U. S. S. Powhatan, Boston, Mass	30.44	773.2	17	— 8.3	100	wsw.	.....	.....	3	.....	8	.....	.....	.....	.....	.....	.....	fair.
U. S. S. St. Louis, League Island, Pa	30.56	776.2	27	— 2.8	88	w.	4.2	1.9	.....	.....	8	.....	w.	blank	blank	.....	.....	cloudy.
U. S. S. Swatara, Hampton Roads, Va*	30.28	769.1	35	1.7	90	n.	.....	.....	2	.....	2	.....	n.	.....	.....	.....	.....	fair.
U. S. S. Tennessee, N. 10° 12′, W. 79° 07′*	29.89	759.2	79	26.1	82	nne.	20	8.9	.....	.....	0	.....	.....	0.05	1.3	long	.....	clear.
U. S. S. Vandalia, N. 18° 07′, W. 69° 53′ *	30.08	764.0	74	23.3	90	nne.	.....	.....	4	.....	5	.....	ne.	.....	.....	sm'h	.....	fair.
U. S. S. Yantic, N. 23° 41′, W. 93° 43′	30.31	769.9	70	21.1	100	nnw.	.....	.....	4–6	.....	8	.....	.....	.....	.....	long	nw.	squally.
S. S. Illinois, N. 50° 50′, W. 16° 00′	30.24	768.1	50	10.0	93	wsw.	.....	.....	5	.....	10	.....	wsw.	.....	.....	sm'h	wsw.	raining.
S. S. Lord Clive, N. 49° 10′, W. 30° 24′	.....	.....	.....	.....	.....	sw.	.....	.....	6	.....	9	.....	w.	1 h'r	1 h'r	high	w.	cloudy.
S. S. Lord Gough, N. 51° 19′, W. 12° 09′	30.20	767.1	50	10.0	.....	wsw.	.....	.....	4	.....	10	.....	w.	9 h'r	9 h'r	sm'h	.....	gloomy.
S. S. Ohio, N. 42° 33′ W. 49° 30′†	29.94	760.5	.....	.....	.....	n.	.....	.....	5	.....	10	.....	.....	.....	.....	mod	n.	rain & snow.
S. S. Pennsylvania, N. 50° 12′, W. 29° 16′†	30.05	763.3	51	10.6	100	wnw.	.....	.....	5	.....	10	.....	.....	2 h'r	2 h'r	high	wnw.	overcast.
S. S. Nova Scotian, N. 44° 21′ W. 52° 00	30.29	769.4	26	— 3.3	.....	nnw.	.....	.....	3	.....	5	.....	nw.	.....	.....	slt	w.	snowy.
S. S. Jason, N. 48° 09′, W. 30° 13′	30.09	764.2	51.8	11.0	.....	sw.	.....	.....	6	.....	9 n	.....	.....	.....	.....	7	wsw.	raining.
S. S. Alvo, N. 26° 13′, W. 74° 19′	30.23	767.8	72	22.2	.....	ese.	.....	.....	4–5	2 ck	0	calm	.....	0	0	con	e.	fine.
S. S. Alene, N. 33° 50′, W. 74° 00′*†	30.30	769.6	.....	.....	.....	nne.	.....	.....	5	.....	10	.....	.....	var.	24 h'r	mod	n.	rainy.
S. S. Ailsa, Colon, Panama†	30.01	762.2	80	26.7	87	ne.	.....	.....	4	.....	4	.....	ne.	6 h'r	6 h'r	mod.	ne.	fair.
S. S. Assyria, N. 34° 24′, W. 66° 38′	30.20	767.1	62	16.7	100	n.	.....	.....	5	.....	10	.....	n.	½ h'r	½ h'r	mod.	n.	overcast.
S. S. Bolivia, N. 53° 02′, W. 18° 02′	30.07	763.8	50	10.0	.....	wsw.	.....	.....	6	.....	10	.....	wsw.	rain	rain	r'gh	wsw.	light rain.
S. S. Dorian, N. 42° 26′, W. 66° 45′	30.39	771.9	35	1.7	.....	w.	.....	.....	5	.....	8	.....	w.	snow	snow	mod.	w.	cloudy.
S. S. Landaff City, N. 41° 00′, W. 66° 50′†	30.51	774.9	34	1.1	.....	n.	.....	.....	4	.....	5?	.....	n.	8 h'r	8 h'r	sm'h	.....	clear.?
S. S. Bothnia, N. 51° 13′, W. 15° 00′	30.17	766.3	55	12.8	93	nw.	.....	.....	4	.....	8	.....	nnw.	.....	.....	.....	w.	rainy.
S. S. Gallia, N. 46° 34′, W. 38° 23′	30.09	764.3	50	13.3	74	wsw.	.....	.....	6	.....	8	.....	wsw.	.....	.....	mod.	wsw.	fair.
S. S. Canada, N. 49° 41′, W. 15° 50′	30.48	774.1	44.6	7.0	.....	nw.	.....	.....	2	ck	.....	nw.	.....	.....	.....	hv'y	nw.	clear.
S. S. Pereire, N. 41° 31′, W. 66° 13′†	30.33	770.3	32.0	0.0	.....	nw.	.....	.....	3	.....	7	.....	nnw.	snow	snow	sm'h	nw.	cloudy.
S. S. Ville de Marseilles, Gonave, Hayti, W. I †	30.15	765.8	72	22.2	.....	e.	.....	.....	2	.....	.....	.....	.....	o	o	sm'h	.....	clear.
S. S. Abyssinia, N. 40° 27′, W. 70° 29′	30.48	774.2	37	2.8	90	wnw.	.....	.....	4	.....	0	.....	.....	o	o	sm'h	.....	blue sky.
S. S. Wyoming, N. 45° 38′ W. 45° 30′	.....	.....	34	1.1	.....	n.	.....	.....	5	.....	8	.....	nw.	5 h'r	5 h'r	long	w.	clearing.
S. S. Bohemia, N. 42° 46′, W. 53° 42′†	29.95	760.7	.....	.....	.....	n.	.....	.....	4	.....	10 k	.....	n.	12 h'r	12 h'r	mod.	w.	overcast.
S. S. Silesia, New York, N. Y †	30.47	773.9	.....	.....	.....	nw.	.....	.....	2	.....	1	.....	nw.	2 h'r	2 h'r	.....	.....	clear.
S. S. Vandalia, N. 54° 53′, W. 25° 38′	29.69	754.1	43.2	6.2	97	sw.	.....	.....	8	.....	10	.....	sw.	.....	.....	8–9	sw.	squally.
S. S. City of Berlin, N. 41° 11′, W. 62° 00′	30.32	770.1	28	— 2.2	57	n.	.....	.....	2	.....	4	.....	nw.	snow	snow	.....	nw.	
S. S. Bulgarian, N. 43° 30′, W. 59° 49′ *	30.36	771.1	.....	.....	.....	w.	.....	.....	2	.....	8	.....	wnw.	8 h'r	8 h'r	.....	.....	
S. S. Archimedes, N. 30° 53′ W. 169° 00	30.19	766.8	.....	.....	.....	n.	.....	.....	3	.....	8	.....	ne.	o	o	light	nnw.	fair.
S. S. Colorado, N. 28° 52′, W. 62° 55′ †	30.40	772.1	46	7.8	.....	n.	.....	.....	6	.....	10	.....	nne.	light	light	high	nne.	cloudy
S. S. San Marcos, N. 38° 40′, W. 74° 30′	30.57	776.5	44	6.7	.....	nw.	.....	.....	4	.....	1	.....	nw.	o	o	.....	.....	fine.
S. S. Chalmette, Algiers, La †	30.39	771.9	48	8.9	.....	n.	.....	.....	5	.....	1	.....	nne.	o	o	.....	.....	clear.
S. S. New York, N. 26° 30′, W. 86° 00′†	30.27	768.8	76	24.4	.....	se.	.....	.....	5	.....	7	.....	se.	o	o	r'gh	se.	cloudy.
S. S. Archimede, N. 38° 37′, W. 71° 40′†	30.37	771.4	50?	10.0?	.....	n.	.....	.....	3	.....	3	.....	n.	4 h'r	4 h'r	r'gh	nne.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. City of Merida, N. 19° 45′ W. 95° 00′†	30.27	768.8	75	23.9	.....	nw.	.....	.....	4	.....	10	.....	nw.	3 h'r	3 h'r	cross	nw.	cloudy.
S. S. City of Washington, N. 21° 20′, W. 89° 38′†	30.23	767.8	82	27.8	.....	e.	.....	.....	2	.....	5	.....	e.	o	o	light	ne.	fine.
S. S. Santiago, N. 38° 00′, W. 73° 50′	30.42	772.7	35	1.7	.....	n.	.....	.....	3	.....	0	.....	.....	4 h'r	4 h'r	.....	.....	fine.
S. S. Denmark, N. 49° 05′, W. 24° 39′†	30.24	768.1	52	11.1	.....	wsw.	.....	.....	6	.....	8	.....	wsw.	sq'lls	sq lls	r'gh	w.	cloudy.
S. S. England, N. 42° 50′ W. 55° 55′	30.23	767.8	.....	.....	.....	nne.	.....	.....	4	.....	10	.....	n.	.....	.....	sm'h	.....	foggy.
S. S. Erin, N. 41° 45′, W. 52° 30′	30.04	763.0	29	— 1.7	.....	n.	.....	.....	8	.....	10	.....	n.	20 h'r	20 h'r	r'gh	nnw.	misty.
S. S. Helvetia, N. 49° 46′, W. 29° 30′	29.96	761.0	51	10.6	.....	sw.	.....	.....	8	.....	10	.....	sw.	7 h'r	7 h'r	long	wsw.	raining.
S. S. The Queen, N. 45° 00′, W. 48° 19′	30.11	764.8	23	— 5.0	.....	nnw.	.....	.....	5	.....	10	.....	.....	6 h'r	6 h'r	sm'h	.....	snowy.
S. S. Braunschweig, N. 52° 19′, E. 3° 10′	30.03	762.7	43.0	6.1	83	nnw.	.....	.....	2	.....	5?	.....	nne.	3 h'r	3 h'r	light	nne.	cloudy.?
S. S. Donau, N. 42° 29′, W. 59° 57′	30.37	771.4	.....	.....	.....	nnw.	.....	.....	3	.....	8	.....	nnw.	10 h'r	10 h'r	sm'h	nnw.	cloudy.
S. S. Elbe, N. 40° 53′ W. 60° 59′	30.30	769.6	38	3.3	.....	n.	.....	.....	4–5	.....	8	.....	ne.	o	o	mod.	n.	cloudy.
S. S. Hermann, N. 38° 00′, W. 69° 42′	30.46	773.7	39.2	4.0	91	ne.	.....	.....	6	.....	8	.....	nne.	4 h'r	4 h'r	4	ne.	clearing.
S. S. Neckar, N. 51° 20′, E. 1° 50′	30.07	763.8	42.0	5.6	83	wnw.	.....	.....	4	.....	9	.....	wnw.	4 h'r	4 h'r	mod.	wnw.	hazy.
S. S. Weser, N. 48° 47′, W. 30° 04′	30.14	765.5	.....	.....	.....	s.	.....	.....	6–7	.....	10	.....	s.	o	o	long	wsw.	hazy.
S. S. Muriel, Trinidad, W. I.*	29.97	761.2	78	25.6	.....	ene.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Belgenland, Antwerp, Belgium*†	30.05	763.3	43	6.1	100	ssw.	.....	.....	4	.....	9	.....	.....	6 h'r	6 h'r	.....	.....	fine.
S. S. Nederland, N. 42° 27′ W. 59° 19′	.....	.....	30	— 1.1	89	nnw.	.....	.....	3	.....	8	.....	nnw.	4 h'r	4 h'r	sm'h	nnw.	cloudy.
S. S. Rhynland, N. 48° 00′, W. 38° 00′	30.10	764.5	50	10.0	100	nw.	.....	.....	5	.....	10	.....	nw.	12 h'r	12 h'r	cf'd	w.	rainy.
S. S. Pennland, N. 49° 45′, W. 9° 36′	30.28	769.1	49	9.4	78	wnw.	.....	.....	3	.....	9	.....	nw.	o	o	long	w.	overcast.
S. S. Switzerland, N. 49° 40′, W. 17° 01′†	30.36	771.1	.....	.....	.....	w.	.....	.....	2	.....	10	.....	w.	o	o	long	w.	cloudy.
S. S. Waesland, N. 41° 00′, W. 64° 09′	30.43	772.9	29	— 1.7	.....	n.	.....	.....	4	.....	7	.....	nne.	9 h'r	9 h'r	mod.	n	fair.
S. S. Zeeland, N. 49° 08′ W. 22° 30′ *†	30.24	768.1	46	7.8	.....	wsw.	.....	.....	6	.....	8?	.....	w.	hail	hail	high	wsw.	clear?
S. S. P. Caland, N. 44° 09′, W. 49° 00′	30.14	765.5	32.7	0.4	96	n.	.....	.....	5	.....	10	.....	n.	.....	.....	2	n.	rain & snow
S. S. Rotterdam, N. 48° 05′, W. 31° 36′*	30.15	765.7	56.8	13.8	91	nw.	.....	.....	6	.....	1	.....	wnw.	o	o	6	nw.	clear.
S. S. Schiedam, N. 49° 51′, W. 4° 50′	30.23	767.8	53.2	11.8	.....	nw.	.....	.....	2	.....	4	.....	nw.	o	o	mod	nw	fair.
S. S. W. A. Scholten, Rotterdam, Nethlands*	30.02	762.5	43.6	6.4	83	nw.	.....	.....	4	.....	5	.....	w.	4 h'r	4 h'r	.....	.....	rainy.
S. S. Zaandam, N. 44° 30′, W. 49° 48′	30.21	767.3	40.6	4.8	90	n.	.....	.....	2	.....	10 n	.....	n.	20 h'r	20h'r	.....	.....	foggy.
S. S. Caracas, La Guayra, Venezuela†	30.02	762.5	73	22.8	90	calm	.....	.....	0	.....	10	.....	ene.	o	o	mod.	nne.	foggy.
S. S. Claudius, N. 18° —′ W. 80° 40′†.	30.17	766.3	78.5	25.8	72	ene.	.....	.....	4	.....	3	.....	e.	o	o	h'vy	e.	fair.
S. S. Valencia, N. 38° 43′, W. 73° 00′†	30.50	774.7	41	5.0	76	nnw.	.....	.....	5	.....	4	.....	nw.	5 h'r	5 h'r	mod.	nnw.	fine.
S. S. State of Florida, N. 50° 26′, W. 31° 20′	.....	.....	51	10.6	.....	wsw.	.....	.....	3	.....	10	.....	.....	8 h'r	8 h'r	h'vy	wsw	overcast.
S. S. Lepanto, N. 50° 24′, W. 2° 53′*†	30.30	769.6	44	6.7	.....	nw.	.....	.....	3	.....	3	.....	wsw.	o	o	mod.	w.	fair.
S. S. Marengo, N. 41° 33′, W. 57° 57′†	30.19	766.8	.....	.....	.....	n.	.....	.....	6	.....	10	.....	nne.	6 h'r	6 h'r	mod.	n.	overcast
S. S. Salerno, Hull, Eng†	30.03	762.7	42	5.6	.....	n.	.....	.....	2	.....	10	.....	ne.	3 h'r	3 h'r	rg'h	se.	raining.
S. S. Toronto, N. 49° 59′, W. 22° 54′*	30.30	769.6	56	13.3	.....	wsw.	.....	.....	7	.....	8	.....	wsw.	o	o	h'vy	wsw.	overcast.
S. S. Olbers, N. 31° 53′, W. 14° 52′*†	30.10	764.5	64	17.8	.....	nne.	.....	.....	6	.....	9	.....	ne.	12 h'r	12 h'r	h'vy	ne.	showery
S. S. Plantyn, N. 41° 57′, W. 55° 10′	30.08	764.0	.....	.....	.....	.....	.....	.....	6	.....	3	.....	wnw.	2½h'r	2½h'r	r'gh	w.	squally.
S. S. Catherine Whiting, Absecom, N. J†	30.55	776.0	70	21.1	.....	nw.	.....	.....	1	.....	.....	.....	nw.	o	o	light	ne.	
S. S. Norman, N. 41° 52′, W. 69° 52′*†	30.43	772.9	.....	.....	.....	w.	.....	.....	5	.....	.....	.....	w.	3 h'r	3 h'r	sm'h	.....	cloudy.
S. S. Saxon, N. 39° 23′, W. 75° 30′†	30.39	771.9	.....	.....	.....	nw.	.....	.....	7	4	.....	.....	.....	.....	.....	.....	.....	fine.
S. S. Adriatic, N. 43° 25′, W. 40° 38′†	30.08	764.0	58?	14.47	.....	ssw.	.....	.....	5	9	.....	.....	ssw.	o	o	mod.	ssw.	gloomy.
S. S. Celtic, N. 40° 40′, W. 68° 08′†	30.36	771.1	36	2.2	.....	wnw.	.....	.....	3	0	.....	.....	.....	8 h'r	8 h'r	sm'h	.....	fine.
S. S. Republic, N. 47° 44′, W. 35° 56′†	30.09	764.3	54	12.2	87	wsw.	.....	.....	6	9	.....	.....	wsw.	1 h'r	1 h'r	o	wsw.	d. clouds
S. S. Iowa, N. 43° 32′, W. 49° 27′*†	30.20	767.1	31	— 0.6	.....	nne.	.....	.....	5	10	.....	.....	.....	14 h'r	14 h'r	mod.	nne.	misty.
S. S. Auckland, N. 10° 48′, W. 35° 24′	29.96	761.0	75	23.9	81	ne.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Chamois, N. 21° 37′, W. 52° 10′	29.91	759.7	73.0	22.8	58	nnw.	.....	.....	3	3	.....	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Commewyne, N. 42° 58′, W. 16° 40′*	30.47	773.9	52.5	11.4	97	n	.....	.....	3	9	.....	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. City of Agra, N. 34° 45′, W. 43° 00′	30.20	767.1	68	20.0	79	e.	.....	.....	5	2	.....	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Ptolemy, N. 17° 30′. W. 55° 35′	29.95	760.7	74.2	23.4	81	n.	.....	.....	6	6	.....	.....	.....	.....	.....	high	ne.	d clouds.
Bg. Abbie Clifford, N. 24° 49′, W. 80° 00′ †	30.19	766.8	74	23.3	.....	ene.	.....	.....	3	2	.....	.....	.....	.....	.....	.....	.....	fair
Bk. Aquidneck, N. 20° 55′, W. 39° 44′*†	30.30	769.6	.....	.....	.....	se.	.....	.....	2	.....	.....	.....	se.	o	o	.....	.....	hazy.
Bg. Alcira, Maracaybo, Venezuela, S. A	29.94	760.5	81	27.2	.....	ne.	.....	.....	4	.....	.....	.....	se.	light	light	h'vy	se.	hazy.
Schr. Anna A. Holton, Tampico, Mexico†	30.31	769 9	61	16.1	.....	nnw.	.....	.....	4	3	.....	.....	ne.	o	o	.....	.....	clear
Schr. Annie R Lewis, N. 17° 40′ W. 65° 20′†	30.10	764.5	78	25.6	.....	ne.	.....	.....	4	8	.....	.....	n.	o	o	sm'h	.....	cloudy.
Bk. Anna Thormann, N. 24° 39′ W. 38° 47′†	30.16	766.1	71.4	21.9	73	ese.	.....	.....	5	5	.....	.....	ne.	2 h'r	2 h'r	r'gh	ne.	fair.
Bk. Aureola, Swansea, Wales*†	30.22	767.6	61	16.1	.....	wnw.	.....	.....	5	7 k	.....	.....	se.	inap.	inap.	cross	var.	misty.
Bk. Achille F, Queenstown, Ireland†	30.30	769.6	45	7.2	92	s.	.....	.....	5	3	.....	.....	nnw	2 h'r	2 h'r	.....	.....	clear.
Bg. Annie R. Storer N. 13° 00′, W. 59° 30′*†	29.98	761.5	.....	.....	.....	ene.	.....	.....	1	9	.....	.....	sw.	o	o	sm'h	.....	cloudy.
S. Armenia, N. 0° 25′, W. 30° 20 *	29.83	757.7	77	25.0	95	e.	.....	.....	4	8	.....	.....	ne.	3 h'r	3 h'r	sm'h	nne.	squally.
S. S. Burswell, Queenstown, I eland*†	30.19	760.8	57	13.9	.....	w.	.....	.....	3	10	.....	.....	e.	12 h'r	12 h'r	mod.	var.	overcast.
Bk. Bare, N. 1° 55′, W. 25° 38′	.....	.....	80	26.7	.....	var.	.....	.....	2	4	.....	.....	.....	2 h'r	2 h'r	sm'h	.....	fine.
Bk. Pilgrim, N. 25° 32′, W. 40° 20′	.....	.....	.....	.....	.....	sse.	.....	.....	1	10	.....	.....	sse.	6 h'r	6 h'r	sm'h	sse.	cloudy.
Bk. Champion, N. 48° 48′, W. 8° 25′	.....	.....	48	8.9	.....	n.	.....	.....	4	10	.....	.....	.....	12 h'r	12 h'r	cross	.....	cloudy.
Bkt. C. S. Bushnell, Alicante, Spain	30.03	762.7	.....	.....	.....	var.	.....	.....	4	2	.....	.....	nne.	8 h'r	8 h'r	sm'h	wnw	fair.
S. Cornelius, N. 51° 48′, W. 17° 50′†	30.02	762.5	51.1	10.6	.....	sw.	.....	.....	3	5	.....	.....	sw.	o	o	sm'h	.....	fine.
Schr. C. R. Flint, N. 39° 30′, W. 73° 03′*†	30.00	777.2	32	0.0	.....	nw.	.....	.....	6	10	.....	.....	.....	8 h'r	8 h'r	cross	wsw.	drizzling.
Bk. Commerce, Cadiz, Spain†	30.06	763.5	54	12.2	.....	nnw.	.....	.....	6	3	.....	.....	.....	o	o	sm'h	ese.	clear.
S. S. Canonbury, N. 34° 45′, W. 70° 00′ *†	30.24	768 1	.....	.....	.....	ene.	.....	.....	6	10	.....	.....	nnw.	o	o	.....	.....	cloudy.
Bk. Chas. Stewart, N. 18° 20′, W. 40° 10′†	30.11	764.8	75	23.9	.....	se.	.....	.....	5	7	.....	.....	n.	6 h'r	6 h'r	h'vy	nne.	foggy.
S. S. D. J. Foley, N. 16° 30′, W. 76° 06′*†	30.10	764.5	78	25.6	100	nne.	.....	.....	4	5	.....	.....	var.	o	o	mod.	ene.	
Schr. Edith R. Seward, San Domingo, Hayti, W. I†	30.01	762.2	73	22.8	.....	nne.	.....	.....	3	4	.....	.....	ne.	½h'r	½h'r	long	e.	squally.
S. E. J. Speer, N. 39° 00′, W. 39° 40′	30.33	770.4	61	16.1	?	sw.	.....	.....	3	2	.....	.....	nne.	¼h'r	¼h'r	rg'h	ese.	clear.
Bk. E. D. Bigelow, N. 35° 32′, W. 34° 52′*†	30.25	768.3	.....	.....	.....	sse.	.....	.....	4	4	.....	.....	wsw.	18 h'r	18 h'r	mod.	se.	clear.
Schr. F. E. McDonald, N. 30° 48′, W. 70° 30′†	30.28	769.1	70	21.1	.....	sw.	.....	.....	1	2	.....	.....	sse.	o	o	mod.	sse.	fair.
S. S. Foscolio, N. 39° 01′, W. 9° 40′†	30.20	767.1	.....	.....	.....	n.	.....	.....	7	1	.....	.....	sse.	o	o	mod.	wsw.	fine.
S. Festina Lente, N. 55° 53′, W. 21° 31′	29.50	749.3	43	6.1	.....	sw.	.....	.....	8	2	.....	.....	n.	o	o	h'vy	n.	clear.
Bg. Gipsey Queen, Cardenas, Cuba, W. I*†	30.15	765.8	76	24.4	.....	e.	.....	.....	4	8	.....	.....	sw.	6 h'r	6 h'r	h'vy	sw.	threatening.
Bk. Galeon, Cardiff Roads, Eng	.....	.....	44	6.7	.....	n.	.....	.....	3	2	.....	.....	ne.	.....	.....	.....	.....	fair.
Schr Hattie Weston, Mayaro, Trinidad, W. I *†	29.89	759.2	80	26.7	.....	ne.	.....	.....	3	0	.....	.....	.....	.....	.....	.....	.....	
Bk. Hattie G. McFarland, Pascagoula, Miss*†	30.39	771.9	44	6.7	.....	n.	.....	.....	3	1	.....	.....	ene.	o	o	mod.	ene.	clear.
Bk. Horace Scudder N. 12° 00′, W. 38° 18′*†	30.00	762.0	78	25.6	.....	e.	.....	.....	6	10	.....	.....	n.	o	o	.....	.....	
Schr. Isabel Alberto, N. 29° 00′, W. 74° 50′†	30.20	767.1	.....	.....	.....	s.	.....	.....	3	7	.....	.....	ese.	o	o	long	e.	fine.
S. S. J. W. Wilson, Tanquijo Reef, Mexico*†	30.30	771.1	50	10.0	.....	nw.	.....	.....	1	2	.....	.....	w.	o	o	sharp	se.	fair.
Schr, John L. Thomas, N. 34° 50′ W. 74° 48′*†	30.40	772.1	.....	.....	.....	nne.	.....	.....	4	10	.....	.....	n.	o	o	h'vy	n.	overcast.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe*†	30.04	763.0	.....	.....	.....	ene.	.....	.....	6	10	.....	.....	ne.	6 h'r	6 h'r	h'vy	var.	rainy.
Bg. Lillian, N. 32° 40′, W. 72° 25′†	30.18	766.0	67	19.4	.....	ne.	.....	.....	1	ene.	½	.....	ene.	½ h'r	½ h'r	.....	.....	clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3	.....	.....	.....	calm	.....	.....	6	10	.....	.....	ne.	o	o	r'gh	var.	cloudy.
S. S. Madrid, N. 43° 11, W. 9° 30′*†	30.40	772.1	50	10.0	85	n.	.....	.....	0	2	.....	.....	.....	o	o	.....	.....	fine.
Bk. Mary A. Troop, Sharpness Point, Eng*†	30.18	769.6	.....	.....	.....	wsw.	.....	.....	0	4	.....	.....	n.	sh'rs	sh'rs	ireg.	nw.	fair.
Bgt. Myrtle, Saint Thomas, W. I	.....	.....	.....	.....	.....	ene.	.....	.....	2	5	.....	.....	wnw.	o	o	.....	.....	fair.
S. M. P. Grace, N. 38° 03′, W. 40° 54′*	30.20	767.1	62	16.7	.....	e.	.....	.....	6	1	.....	.....	ene.	o	o	.....	.....	fair.
S. S. Mendoza, N. 26° 10′, W. 45° 49′*†	30.10	764.5	.....	.....	.....	sse.	.....	.....	3	0	.....	.....	.....	.....	.....	.....	.....	hazy.
Bkt. Norena, Matanzas, Cuba, W. I *†	30.25	768.3	.....	.....	.....	w.	.....	.....	4	4?	.....	.....	.....	sli't	sli't	r'gh	e.	hazy.
Bk. Orpheus, N. 47° 13′, W. 10° 00′	30.52	775.2	52	11.1	.....	nw.	.....	.....	1	1	.....	.....	sse.	2 h'r	2 h'r	r'gh	.....	cloudy.?
Bk. Ottawa, N. 36° 40′, W. 3° 54′ *	29.92	760.0	60	15.6	.....	wsw.	.....	.....	2	8 k	.....	.....	e.	o	o	.....	.....	fine.
S. S. Raleigh, New York, N. Y†	30.38	768.1	29	— 1.7	.....	wnw.	.....	.....	5	0	.....	.....	nnw.	.....	.....	sm'h	.....	hazy.
Bk. Reindeer, N. 22° 30′ W. 68° 38′*	30.01	762.2	.....	.....	.....	ene.	.....	.....	1	0	.....	.....	w.	o	o	mod.	wsw.	cloudy.
S. Rudolph, N. 23° 22′ W. 45° 40′	.....	.....	69.7	20.9	.....	s.	.....	.....	6	0	.....	.....	.....	.....	.....	.....	.....	clear.
Bk. Rebus, N. 47° 06′, W. 8° 18′	.....	.....	50	10.0	.....	var.	.....	.....	6	3	.....	.....	ene.	o	o	mod.	ene.	squally.
Bk. Sunbeam, N. 27° 47′, W. 25° 23′	30.27	768.8	71	21.7	75	ne.	.....	.....	3	2	.....	.....	sw.	2 h'r	2 h'r	long	var.	fair.
Bk. Scud, N. 33° 35′, W. 72° 41′*†	30.29	769.4	.....	.....	.....	ne	.....	.....	6	5	.....	.....	nnw.	sq'lls	sq'lls	long	w.	fair.
Schr. S. B. Hubbard, New London, Conn*†	30.47	773.9	21	— 6.1	.....	nw.	.....	.....	5	5	.....	.....	ene.	o	o	mod.	ene.	fair.
Bk. Usko, N. 41° 29′, W. 15° 14′*†.	30.52	775.2	.....	.....	.....	n.	.....	.....	1	10	.....	.....	ne.	4 h'r	4 h'r	h'v'y	nnw.	cloudy.
S. Vincenzo Accame, N. 30° 10′, W. 43° 12′†	30.24	768.0	64.4	18	.....	se.	.....	.....	5	.....	5	.....	nne.	o	o	.....	.....	fine.
									4	.....	4	.....	se.	4 h'r	4 h'r	mod.	nw.	fair.
																r'gh	n.	clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Viola Reppard, N. 32° 45′, W. 77° 00′†	30.26	768.6	70	21.1		nne.			7		10		nne.	4 h'r	4 h'r	h'vy	ne.	stormy.
Schr. Wm. Wiler, Pointe a Pitre, Guadeloupe, W I†	29.91	759.7				n.			1		2		ne.	o	o			fine.
S. Wm. Woodbury, N. 60° 12′, W. 14° 02′			42	5.6		w.			6		8		w.			high	sw.	cloudy.
S. S. Colon, Aspinwall, Panama†	29.95	760.7	81	27.2		nne.			4		6		ne.	o	o	large	var.	fair.
S. S Ambrose, N. 37° 49′, W. 72° 49′†	30.44	773.2				n.			2		0			o	o	2	n.	fine.
District No. 2—South Atlantic.																		
H. M. S. Heroine, S. 50° 21′, W. 66° 12′	30.00	762.0	56	13.3	94	nne.			3		4	ese.				3	sse.	d clouds.
H. M. S. Starling, S. 8° 45′, E. 13° 17′	29.82	757.4	83.3	28.5	91	nnw.			1		1	ssw.						blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.84	757.9	63	17.2	88	sw.	14	6.3			10	sw.	o	o	mod	sw.	cloudy.
U. S. S. Galena, Colonia, Uruguay*	29.91	759.7	69	20.6	79	sw.			4		2	sw.			mod.	sse.	fair.
S. S. Grecian, Buenos Ayres, La Plata*	29.94	760.5	61	16.1	88	s.			4		0			o	o			clear.
S. S. Hevelius, S. 29° —′, W. 46° —′†	29.94	760.5	76	24.4		ssw.			4		3	wsw.		2 h'r	2 h'r	sm'h		clear.
S. S. Caldew, S. 8° 45′, W. 13° 57′	29.97	761.2	78	25.6	81	se.			5		10							overcast.
S. S. May Hulse, S. 58° 25′, W. 65° 24′	29.65	753.1	45	7.2	90	wnw.			6		10							misty.
Bk. Ceres, S. 5° 38′, W. 32° 09′*	29.93	760.2	81.6	27.2	76	ese.			4		7	w.		o	o	sm'h	se.	fair.
Bk. Essex, S. 32° 06′, E. 10° 05′ *†	30.04	763.0	72.0	22.2		s.			5		2		ene.	o	o	sm'h		fine.
Bk. E. L. Pettingill, S. 24° 50′, W. 26° 13′ *†	30.20	767.1	84	28.9		ne.			3		2			o	o	sm'h		
S. E. B. Sutton, S. 29° 30′ W. 46° 30′†	29.84	757.9	78	25.6	91	se.			2		10			1 h'r	1 h'r	mod.	ne.	light rain.
S. Grecian, S. 28° 40′, W. 27° 34†	30.16	766.1	81	27.2	74	ene.			4		8		ne.	o	o	long	s.	fair.
S Sovereign of the Seas, S. 54° 25′, W. 66° 35′ *†	30.16	766.1	46	7.8	92	nw.			3		8		nw.	o	o	long	sw.	cloudy.
S. Titan, S. 36° 55′, W. 49° 34′*†	29.75	755.6	74	23.3	86	w.			1		1		w.	2 h'r	2 h'r	sm'h	e.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay†	29.90	759.4	65	18.3		sw.			6		10		sw.	o	o			threatening.
District No. 3—North Pacific.																		
S. S. Mexico, N. 23° 28′, W. 107° 05′†	30.04	763.0	68	20.0	50	n.			2		0					long	nw.	clear.
S. S. Belgic, N. 36° 17′, E. 147° 23′ *†	29.91	759.7	65	18.3	63	s.			5		8		s.	o	o	long	ne.	cloudy.
S. S. Coptic, N. 38° 09′, W. 163° 38′	30.03	762.7	48.5	9.2	70	w.			3		4		nw.	sh'rs	sh'rs	mod.	w.	cloudy.
S. S. Gaelic, N. 40° 23′, W. 140° 09′	30.05	763 3	54	12.2	100	var.			1		9			o	o	con.		overcast.
S. S. Oceanic, N. 34° 45′, E. 139° 33′*	29.92	760.0	54	12.2	100	nw.			6		4		sw.			mod.	con.	showery.
S. S. Oregon, N. 45° 58′, W 124° 05′†	30.30	771.1	47	8.3	92	ese.			2		5		sw.			light	sw.	cloudy.
S. S. Willamette, Seattle, Wash. Ter †	30.33	770.4	42	5.6	91	sse.			1		10		s.	0.84	21.3			rainy.
S. S. Ancon, N. 33° 38′, W. 118° 12′ †	30.03	762.7	56	13.3	94	n.			2		2		ne.					fair.
S. S. City of Chester, San Francisco, Cal*†	30.21	767.3	55	12.8	80	calm			0		0			o	o			clear.
S. S. G. W. Elder, Seattle, Wash. Ter †	30.45	773.4	44	6.7	92	calm			0		10					sm'h		overcast.
S. S. State of California, N. 42° 35′, W. 124° 40′†	30.41	772.4	49	9.4	78	ese.			3		4		sw.			mod.	sw.	clear.
S. S. City of New York, N. 27° 20′, W. 146° 16′†	30.05	763.3	73	22.8	76	sse.			6		10		sse.	2 h'r	2 h'r	h'vy	s.	cloudy.
S. S. City of Pekin, Hong Kong, China †	30.10	764.5	63	17.2	89	ese.			4		10		e.					misty.
S. S. City of Rio de Janeiro, N. 16° 25′, W. 99° 20′			80	26.7	82	n.			2		5		n.	o	o	light	w.	fair.
S. S. Colima, N. 8° 18′ W. 83° 38′ †	29.87	758.7	82	27.8	100	ssw.			4		2		s.	o	o	mod.	se.	clear.
S. S. Granada, N. 36° 14′, W. 121° 50′†	30.08	764.0	56	13.3	87	nw.			6		0			o	o	mod.	wnw.	clear.
S. S. San José, N. 23° 36′, W. 110° 30′	30.00	762.0	58	14.4	76	nne.			1		0			o	o	long	w.	clear.
S. S. Zealandia, N. 36° 16′, W. 135° 15′			55	12.8	87	n.			2		0					sm'h		clear.
H. M. S. Curacoa, Kobe, Japan			45.5	7.5	77	n.			5–6		3							squally.
H. M. S. Himalaya, N. 17° 53′, E. 115° 00′	29.96	761.0	76	24.4	95	ne.			3		2					3	ne.	d clouds.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.95	760.7	72	22.2		calm			0		3							showery.
H. M. S. Swiftsure, N. 6° 59′, W. 116° 52′	29.86	758.4	77	25.0	95	nne.			4–5		5	ne.						showery.
U. S. Naval Hospital, Yokohama, Japan*	29.99	761.7	46	7.8	54	n.			6		5		w.	0.21	5.3			clearing.
U. S. S. Independence, Mare Island, Cal	30.24	768.1	43	6.1	91	calm			0		2			o	o			hazy
U. S. S. Lackawanna, Honolulu, Sandwich Islands*	29.91	759.7	72	22.2	80	calm			0		10							raining.
U. S. S. Monocacy, Hong Kong, China	30.12	765.0	62	16.7	94	e.			2		10		calm					cloudy.
U. S. S. Palos, Tientsin China*	30.40	772.1	23	—5.0	100	s.			1		8		sw.					fair.
U. S. S. Ranger, Mare Island, Cal	30.25	768.3	43	6.1	75	ene.			1		0			o	o			clear.
U. S. S. Richmond, Hong-Kong, China*	30.01	762.2	63	17.2	100	e.			3		10			o	o			cloudy.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.94	760.5	70	21.1	90	nne.			1		10		ne.			sm'h		rainy.
S. S. Scotia, Hong Kong, China	30.10	764.5	62.9	17.2	90	e.			3		10							overcast
S. Henry Failing, N. 33° 48′, W. 119° 50′†	30.25	768.3	55	12.8		w			2		5		ne.	o	o	sm'h		fine.
S. St. Francis, N. 5° 27′ W. 122° 47′†	29.90	759.4	74	23.3		se.			7		10		se.	6 h'r	6 h'r	h'vy	nne.	thund'r st'm
Tamega, Macao, China	30.13	765.2	65.8	18.8	86	calm			0		10			o	o			overcast.
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.90	759.4	68	20.0	95	sse.			1		8	se.						misty.
H. M. S. Kingfisher, S. 10° 15′, W. 98° 08′	29.94	760.5	75	23.9		ese.			3		6					4	se.	d. clouds.
H. M. S. Lark. S. 36° 50′, E. 174° 49′	29.67	753.6	69.3	20.7	95	e.			6		10					2	e.	squally.
H. M. S. Liffey S. 29° 56′, W. 71° 20′	29.90	759.4	66	18.9		nne.			1							1	nne.	d. clouds.
H. M. S Rocket, S. 53° 10′, W. 71° 00′	29.93	760.2	55	12.8	87	calm			0		6							foggy.
H. M. S. Sylvia, Sandy Point, Patagonia	29.91	759.7	49.2	9.6	93	ene.			1		9							foggy.
U. S. S. Essex, Callao, Peru	29.88	758.9	69	20.6	90	sse.			1		10		se.				s.	cloudy.
U. S. S. Iroquois, S. 34° 38′, W. 99° 16′	30.10	764.5	70	21.1	80	ssw.			3		5		w.			sm'h	sw.	fair.
U. S. S. Onward, Callao, Peru*†	30.01	762.2	67	19.4	95	sse.			2		10		n.					cloudy.
U. S. S. Pensacola, S. 24° 54′, W. 73° 47′*†	29.85	758.2	66	18.9	79	s.			3		8			o	o	long	s.	cloudy.
British Merchant, S 38° 42′, W. 139° 30′	30.06	763.5	62.6	17.0	83	se.			2		8							d. clouds.
Bk. Childwall, S. 21° 20′, W. 134° 16′ *	29.82	757.4	76	24.4		var.					7		e.	4 h'r	4 h'r	light	s.	gloomy.
Bk. Edmund Phiney, S. 58° 09′, W. 71° 38′ †	29.58	751.3	47	8.3		nw.			7		10			4 h'r	4 h'r	long	wnw.	stormy.
Bk. Gronsvaer, Auckland, N. Z†	29.66	753.3	76.2	24.6		e.			7		10		e.	4 h'r	4 h'r			cloudy.
Bk. Godeffroy, S. 24° 38′, W. 81° 19′*	29.84	757.9	67.3	19.6	81	se.			3		9		se.	o	o	mod	var.	cloudy.
S. S. Australia, Sydney, N S. W *	29.54	759.3	69	20.6	90	ene.			2		9		s.	o	o			cloudy.
S. S. City of Sydney, Sydney, N. S. W †	29.64	752.8	79	26.1	70	ne.			4		8		ne.	o	o			cloudy.
H. M. S. Gannet, S. 2° 12′, W. 79° 51′	29.85	758.2	76	24.4	91	nne.			1		8							d. clouds.
S. Geo. Stetson, S. 58° —′, W. 70° —′ *†	29.50	749.3	48	8.9	85	wnw.			6		4?		wnw.	o	o	cross	w.	cloudy?
Bk. Warden Law, S. 36° 00′, W. 91° 10′*	30.20	767.1				wnw.			3		3		nw.	o	o	long	sw.	fair.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 6° 10′, E. 39° 11′	29.84	757.9	85	29.4		sse.			1		6	sse.						d. clouds.
H. M. S. Eclipse, N. 28° 59′ E. 50° 48′	30.08	764.0	64	17.8		wnw.			1–2		3	sse.						d. clouds.
H. M. S. Euryalus, Rangoon, India	29.86	758.4	84	28.9	67	calm			0		1							blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.91	759.7	84	28.9							4	calm						d. clouds.
H. M. S. Woodlark, N. 23° 45′, E. 58° 40′	30.08	764.0	71.5	21.9	58	e.			2–3		6	e.				2	e.	d. clouds.
S. S. Galatia, N. 11° 05′, E. 60° 51′†	29.93	760.2	77	25.0	?	ne.			3		4		ne.	o	o	mod.	ne.	fine.
Bkt. Josephine, S. 34° 01′, E. 26° 11′†	29.88	758.9	77	25.0	82	e.			6		5			o	o	mod.	e	hazy.
S. Sacramento. S. 45° 40′, E. 51° 00′*†	30.28	769.1	50	10.0	86	ne.			6		4		ne.	o	o	mod.	ne.	fine.

International Chart I. February 19, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War
W. B. Hazen, Chief Signal Officer.

Signal Office, 1883.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 20, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.11	764.7	61.9	16.6	75	W.	.....	.....	6	.....	1	.....	.....	0	0	very fair	Malaterre.
Algiers	.....	.....	30.08	764.0	60.8	16.0	69	n.	.....	.....	3	.....	0	.....	.....	0	0	clear	Thève.
La Calle	.....	.....	30.12	765.1	64.4	18.0	03	WNW.	.....	.....	1	.....	2	.....	.....	0	0	fair	Fonfrède.
Tunis	.....	.....	30.11	764.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.13	765.3	62.6	17.0	86	e.	.....	.....	1	.....	2	.....	.....	0	0	fair	Pérès.
Tebessa	.....	.....	30.24	768.1	60.8	16.0	54	W.	...	...	1	.....	0	.....	.....	0	0	clear	Dognon.
Geriville	.....	.....	.....	.....	60.4	15.8	4	SSW.	.....	.....	4	.....	0	.....	.....	0	0	clear	Forfert.
Laghouat	.....	.....	30.19	766.7	52.2	11.2	37	se.	.....	.....	2	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.25	768.3	65.1	18.4	28	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	Malan.
Australian.																			
Melbourne, Victoria	29.81	757.2	29.90	759.4	62.0	16.7	76	sse.	6	2.7	.....	.....	1	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.83	757.6	30.41	772.4	35.6	2.0	57	e.	.....	.....	2	.....	6	.....	.....	0	0	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	29.56	750.7	30.37	771.5	27.7	— 2.4	87	ene.	1.8	0.8	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.42	747.3	30.35	771.0	30.6	— 0.8	66	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.09	738.8	30.41	772.4	33.3	0.7	72	e.	.....	.....	2	.....	10	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.86	733.0	30.37	771.4	31.6	— 0.2	89	s.	.....	.....	3	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.99	736.2	30.39	772.0	35.6	2.0	85	W.	.....	.....	1	.....	8	.....	.....	0.031	0.8	gloomy	The Staff.
Lemberg	29.37	746.1	30.45	773.4	21.4	— 5.9	69	s.	.....	.....	1	.....	3	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.85	681.9	30.35	770.8	35.6	2.0	64	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Dr. V. von Szontagh.
Pola	30.21	767.4	30.33	770.3	42.6	5.9	70	NW.	.....	.....	1	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.89	759.1	30.36	771.1	34.5	1.4	62	W.	.....	.....	3	.....	1	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	30.11	764.9	30.41	772.4	35.2	1.8	66	s.	.....	.....	1	.....	3	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.22	767.5	30.32	770.0	43.3	6.3	35	ne.	.....	.....	1	.....	10	.....	.....	0	0	.....	Royal Academy.
Vienna	29.67	753.7	30.43	773.0	31.3	— 0.4	78	calm	.....	.....	0	.....	10	.....	.....	hap.	hap.	snowing	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.73	755 1	29.82	757 4	48.0	8.9	57	SW.	18	8.0	.....	.....	4	.....	.....	0	0	blue sky	W. Boswell
Armagh, Observatory	29.82	757.4	30.07	763.8	48.4	9.1	92	SW.	15	6.7	.....	.....	10	.....	.....	.....	.....	gloomy	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.13	765.3	50.0	10.0	79	WSW.	22	9.8	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.66	751.8	30.15	765.8	46.9	8.3	92	WSW.	18	8.0	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth.
Bradford, Yorkshire	29.68	753 9	30.08	764.0	48.5	9.2	87	SW.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	McLandsborough & Preston.
Bridgetown, Barbadoes	29.91	759.7	29.94	760.5	81.0	27.2	62	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C
Cardington	30.13	765.3	30.24	768.1	45.0	7.2	89	W.	.....	.....	0.6	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	30.15	765.8	30.29	769.4	42.7	5.9	97	W.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	Corpl. G. A. Pickles.
Falmouth, Observatory	30.11	764.8	30.34	770.0	49.2	9.6	96	WSW.	.....	.....	2	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Fort Napier, Natal	27.54	699 5	29.77	756.1	87.0	30.6	47	calm	.....	.....	0	.....	4	.....	.....	.....	.....	blue sky	Corpl. F. Milner, A. H. C.
Freetown	29.69	754.1	29.92	760.0	88.0	31.1	91	NW.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	30.06	763 5	30.10	764.5	48	8.9	92	WSW.	.....	.....	3	.....	10	.....	.....	0.11	2.8	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.09	764.3	30.15	765 8	62.5	16.9	94	.....	.....	.....	.....	.....	9	.....	.....	.....	.....	gloomy	Sgt. F. Norris, A. H. C.
Glasgow, Observatory	29.72	754.9	29.93	760.2	48.0	8.9	81	WSW.	.....	.....	4	.....	10 k	.....	.....	.....	.....	overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.12	765.0	30.29	769.4	44.8	7.1	89	SW.	.....	.....	4	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Guernsey	30.09	764.3	30.40	772.1	46.5	8.1	97	WSW.	.....	.....	2	.....	10	.....	.....	blank	blank	overcast	A. Collenette, F. M. S
Kew, Observatory	30.26	768.6	30.29	769.4	45.2	7.3	92	SW.	14	6.3	.....	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Leicester, Museum	29.92	760.0	30.18	766.6	46.3	7.9	90	SW.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	30.13	765 3	30.20	767.1	62.0	16.7	84	SW.	.....	.....	2	.....	3	.....	.....	0.04	1.0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.13	765 3	30.18	766.6	74.0	23.3	59	e.	.....	.....	2	.....	1	.....	.....	.....	.....	blue sky	C. S. Duncombe.
Oscott, St. Mary's College	29.66	753.4	30.19	766.8	46.8	8.2	89	SW.	.....	.....	3	.....	10	.....	.....	.....	.....	misty	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	30.02	762.5	30.25	768.3	40.2	7.9	90	SW.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	The Staff.
Plymouth	30.25	768.3	30.33	770.4	48.2	9.0	97	WSW.	.....	.....	1	.....	10	.....	.....	.....	.....	drizzling	John Merrifield.
Sandwick Manse, Orkneys	29.56	750.8	29.66	753.4	41.9	5.5	83	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	showery	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.20	767.1	30.26	768.6	34.4	1.3	90	n.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	W. H. Lyne.
Sheffield	29.84	757.9	30.13	765.3	50.7	10.4	86	SW.	.....	.....	1	.....	10	.....	.....	0	0	overcast	W. F. Cooper.
Silloth Rectory	29.98	761 5	30.01	762.2	46.7	8.2	92	SW.	.....	.....	4	.....	7	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.12	765.0	47.1	8.4	91	W.	19	8.5	.....	.....	10	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Stratfield Turgiss	30.08	764 0	30.30	769 6	46.7	8.2	92	W.	.....	.....	3	.....	10	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	30.32	770 1	30.36	771.1	52	11.1	86	W.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	30.23	767.8	30.25	768.3	51.6	10.9	78	SW.	24	10.7	.....	.....	9	.....	.....	blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.89	759.2	30.28	769.1	59.0	15.0	66	SW.	5.0	2.2	.....	0	2 n	.....	SW.	0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	— 3	—19.4	.....	calm	0	0	.....	1 k	0	.....	.....	0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.32	770.1	30.37	771.4	0	—17.8	100	W.	0	2.7	.....	0	0	.....	.....	0.020	0.5	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.35	770.9	30.43	772.9	—11	—23.9	100	NW.	1	0.4	.....	0	0	.....	.....	0.01	0.3	clear	G. A. Blair
Cornwall	30.09	764.3	30.30	769.6	— 8.0	—22.2	100	n.	.....	.....	1	7 cs	0	W.	.....	0	0	d. clouds	Jas. Smith, M. A.
Dalhousie	30.34	770.6	30.40	772 1	— 8.0	—22.2	.....	W.	.....	.....	1	0	0	.....	.....	0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.36	771.1	30.38	771.6	— 4	—20.0	79	calm	0	0	.....	.....	10 n	.....	W.	hap.	hap.	light snow	J. McWilliams.
Fort Garry, Manitoba*	29.49	749.0	30.46	773 7	—12	—24.4	54	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	James Stewart
Fredericton	30.40	772.1	30.48	774.2	—13.9	—25.5	100	calm	0	0	.....	0	0	.....	.....	hap.	hap.	blue sky	Prof. Harrison, L. L. D.
Granton	29.66	738.1	30.24	768.1	20.3	— 6.5	96	s.	5	2.2	.....	.....	10 n	.....	.....	0	0	overcast	Jas. Grant.
Halifax, N. S*	30.15	765.8	30.30	769.6	7	—13.9	76	NW.	8	3.6	.....	0	0	.....	.....	0	0	clear	A. Allison.
Hamilton	29.73	755.1	30.14	765.5	18.5	— 7.5	94	SW.	.....	.....	1	10 cs	0	SW.	.....	0	0	hazy	Geo. Dickson, B. A.
Kingston, Ontario*	29.93	760.2	30.30	769.6	8	—13.3	76	ne.	3	1.3	.....	.....	10 s	.....	.....	hap.	hap.	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	30.12	765.0	30.35	770.9	— 3	—19.4	71	e.	0	2.7	.....	0	0	.....	.....	hap.	hap.	clear	C. H. McLeod, C. E.
Ottawa	30.06	763.5	30.34	770.6	— 2.9	—19.4	96	e.	.....	.....	1	3 c	5 s	.....	.....	0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.41	747.0	30.17	766.3	8	—13.3	76	se.	12	5.4	.....	.....	10 n	.....	se.	0.02	0.5	light snow	Rev. R. Mosley.
Peterboro	29.40	748.3	30.30	769.6	5.8	—14.6	75	W.	.....	.....	1	.....	10 n	.....	.....	0.25	6.3	snowing	J. Dixon, B. A.
Port Dover, Ontario	29.51	749.5	30.25	768.3	25	— 3.9	100	SW.	4	1.8	.....	.....	10 n	.....	.....	hap.	hap.	cloudy	H. Morgan.
Port Stanley, Ontario	29 54	750 3	30.23	767.8	27	— 2.8	88	s.	1	0.4	.....	.....	10 n	.....	se.	hap.	hap.	cloudy	M. Payne.
Quebec, Quebec*	30.05	763.3	30.42	772.7	—10	—23.3	100	W.	.....	.....	1	2 ck	0	W.	.....	hap.	hap.	clear	Capt. Ashe, R. N
Rockliffe, Ontario*	29.66	753.4	30.25	768.3	—14	—25.6	78	e.	1	0.4	...	...	...	.....	.....	0	0	threatening	W. H. McIntyre.
Saugeen, Ontario*	29.38	746.2	30.15	765.8	18	— 7.8	96	s.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	
St. Andrews, N. B	30.35	770.9	30.40	772.1	2	—16.7	71	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	
St. John, N. B	30.25	768.3	30.43	772 9	3	—16.1	73	n.	6	2.7	.....	0	0	.....	.....	0.030	0.8	blue sky	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.12	765.0	14.7	— 9.6	.....	n.	.....	.....	6	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	28.84	732.5	30.22	767.6	17.0	— 8.3	92	s.	5	2.2	.....	.....	10 s	.....	.....	0.100	2.5	overcast	C. J. Macgregor, M. A.
Sydney, C. B*	30.25	768.3	30.32	770.1	7	—13.9	83	W.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.86	758.4	30.28	769.1	14	—10.0	83	ne.	3	1.3	.....	.....	10 n	.....	W.	hap.	hap.	cloudy	Magnetic Observatory.
Windsor	30.27	768.8	30.38	771.6	8.0	—13.3	89	n.	8	3.6	.....	0	3 ks	.....	.....	0	0	fine	Prof. W. H. Butler, M. A.
Woodstock	29.13	739.9	30.22	767.6	17.8	— 7.9	94	e.	4.0	1.8	.....	.....	10 s	.....	.....	0	0	hazy	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.30	769.6	30.37	771.4	13	—10.6	66	ne.	2	0.9	.....	5 cs	0	W.	.....	0.01	0.3	fair	Lt. F. E. Wilmot, R.N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	29.81	757.2	29.84	757.9	70 0	21.1	94	w.	8.8	3.9	.....	.....	10	.....	.....	0	0	foggy.....	**John Duthie.**
Springbok Fontein	27.84	707.1	.....	.....	85	29.4	79	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**J. T. Eustace.**
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.53	623.0	.....	.....	25.3	— 3.7	.....	ene.	.....	.....	1	2 cs	0	.....	.....	.....	.....	¼ covered...	
Tchang-kia-tchouang	30.29	769.3	30.40	772.1	29.8	— 1.2	100	calm	.....	.....	0	.....	10	.....	.....	0	0	covered.....	R. P. Desurmont, S.J.
Zi-Ka-Wei, near Shanghai	30.13	765.2	30.15	765.9	42.1	5.6	100	nnw.	7.2	3.2	.....	.....	10 n	.....	.....	0.591	15.0	raining	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.19	766.9	30.24	768.1	30.4	— 0.9	74	sse.	16	7	.....	.....	2	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	30.11	764.9	30.13	765.4	34.3	1.3	96	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	foggy.....	**Overloerer Lauridsen.**
Godthaab, Greenland	29.23	742.4	29.27	743.5	— 1.8	—18.8	100	sw.	.....	.....	4.6	.....	10	.....	.....	.....	.....	snowing.....	S. Kleinschmidt.
Ivigtut, Greenland	29.27	743.5	29.29	744.0	4.3	—15.4	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.11	739.3	29.15	740.5	— 0.4	—18.0	.....	sw.	.....	.....	4	.....	8	.....	.....	.....	.....	snowing ..	
Stykkisholm, Iceland	28.50	723.9	28.54	725.0	27.7	— 2.4	89	sw.	.....	.....	8	.....	10	.....	.....	.....	.....	snowing.....	A. O. Thorlacius.
Thorshavn	29.35	745.4	29.38	746.3	36.7	2.6	60	sw.	23.5	10.5	.....	.....	5	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	29.95	760.7	30.04	763.0	32.4	0.2	94	sse.	.....	.....	6	.....	10	.....	.....	.....	.....	foggy.....	Loerer Oesterbol.
Upernavik, Greenland	28.99	736.3	29.04	737.5	2.3	—16.5	.....	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing.....	
French.																			
Agen, Normal School	29.89	759.2	30.57	776 5	42.8	6	94	calm	.....	.....	0	.....	k	.....	.....	0	0	.....	M. Labroue, Director.
Alençon, Normal School	29.85	758.3	30.41	772.3	43.5	6.4	97	sw.	.....	.....	1	.....	sn	n.	n.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	30.11	764.8	30.38	771.6	41.9	5.5	87	sw.	.....	.....	2	c	0	.....	.....	0.008	0.2	.....	**M. Fénéon, Command't.**
Avignon, Normal School	30.22	767.6	30.30	769 6	49.6	9.8	44	nnw.	.....	.....	4	.....	0	.....	.....	0	0	clear.....	M. Giraud, Director.
Bar-sur-Seine	29.89	759.3	30.48	774.2	38.8	3.8	90	sw.	.....	.....	1	0	8 kn	.....	wsw.	0.094	2.4	very cloudy.	M. Saillard, Director.
Beauvais, Normal School	30.17	766.3	30.45	773.3	46.2	7.9	72	w.	.....	.....	1	.....	10	.....	.....	0	0	covered.....	**M. Frère Eugène Marié**
Besançon, Normal School	29.46	748.2	30.38	771.7	48.6	9.2	46	n.	.....	.....	1	.....	1	.....	.....	0	0	clear.....	M. Gobin, Director.
Bordeaux, Observatory	30.26	768.5	30.53	775.4	41.2	5.1	95	n.	.....	.....	1	.....	5	.....	n.	0.008	0.2	foggy.....	M. Rayet, Director.
Bourges, Normal School	29.92	760.0	30.54	775.8	37.4	3	91	w.	.....	.....	1	.....	k	.....	w.	0	0	.....	M. Malet, Director.
Brest, Naval Observatory	30.22	767.5	30.46	773.6	48.9	9.4	95	sw.	.....	.....	1	.....	10	.....	sw.	0.031	0.8	.....	**M. de Kermaëo, Dir.**
Caen, Normal School	30.28	769.1	30.35	771.0	45.3	7.4	89	ne.	.....	.....	1	.....	10	.....	se.	0.04	1.	raining.....	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	30.15	765.7	30.48	774.2	36.0	2.2	95	calm	.....	.....	0	.....	5	.....	.....	0.059	1.5	cloudy.....	M. Judot, Director.
Charleville, Normal School	29.91	759.6	30.43	772.8	35.6	2.0	82	sw.	.....	.....	1	.....	10	.....	.....	0.04	1.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.06	738.0	30.48	774.1	39.2	4.0	75	n.	.....	.....	1	.....	10	.....	n.	0.008	0.2	covered.....	M. Alluard, Director.
Cluny, Normal School	29.37?	746.0?	30.25?	768.3?	40.1	4.5	82	s.	.....	.....	2	.....	10	.....	sw.	0.012	0.3	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.55	750.5	30.45	773.3	41.5	5.3	74	sw.	.....	.....	1	.....	5 k	sw.	sw.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.71	703.8	30.32	770 2	42.8	6	85	calm	.....	.....	0	.....	1	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, du Rhone	29.12	739.6	30.27	768.9	49.1	9.5	50	n.	.....	.....	2	.....	6	.....	sw.	0	0	.....	M. Klun, Director.
Grenoble, Normal School	29.58	751.2	30.37	771.5	45.7	7.6	59	nw.	.....	.....	1	0	2 k	.....	ne.	0	0	slightly cl'dy	M. Ablard, Director.
Guéret	28.83	732.2	30.57	776.4	41.0	5	69	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	**M. Delorme, Dir.**
Lamballe, Normal School	30.22	767.5	30.50	774.0	47.3	8.5	81	sw.	.....	.....	1	.....	10	.....	sw.	0	0	covered.....	M. Ollitrault, Director.
Lescar, Normal School	29.88	758.9	30.46	773.6	48.2	9.0	50	wnw.	.....	.....	1	0	5 k	.....	.....	0.08	2.	cloudy.....	M. Chauvin, Director.
Lorient, Naval Observatory	30.42	772.6	30.52	775.2	48.9	9.4	71	wsw.	.....	.....	1	.....	10	.....	.....	0.016	0.4	covered.....	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.34	745.3	30.45	773 3	40.8	4.9	69	nnw.	.....	.....	3	.....	8 n	.....	nnw.	0	0	very cloudy	M. André, Director.
Mans, Normal School	30.16	766.0	30.48	774.1	45.9	7.7	90	wnw.	.....	.....	1	.....	5	.....	nw.	0.04	1.	cloudy	M. Piboën, Director.
Marseille, Observatory	30.01	762.3	30.29	769.3	51.3	10.7	78	sw.	.....	.....	1.2	.....	8	.....	n.	0	0	.....	M. Stephan, Director.
Montlouis	25.00	635.1	29.85	758.1	30.2	— 1.0	52	n.	16.8	7.5	.....	.....	3	n.	.....	0	0	.....	**M. Caré for Dr. Fines.**
Montpellier, Normal School	30.21	767.2	30.34	770.6	54.3	12.4	54	wsw.	.....	.....	2	.....	0	.....	.....	0	0	clear.....	M. Galzin, Director.
Nancy, Normal School	29.57	751.0	30.38	771.6	39.2	4.0	77	ssw.	.....	.....	1	.....	kn	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	30.37	771.3	30.53	775.4	51.1	10.6	46	wsw.	.....	.....	0–1	8 c; ck	2 k	n.	.....	0.035	0.9	.....	M. Larocque, Director.
Perpignan, Observatory	30.28	769.2	30.40	772.2	50.4	10.2	46	n.	26.2	11.7	.....	.....	4	.....	nw.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.23	539.3	.....	.....	51.8	11.0	.....	e.	.....	.....	1	.....	1	.....	se.	0.331	8.4	clear.....	**M. Vaussenat, Director.**
Privas, Normal School	29.30	744.1	30.40	772.2	45.3	7.4	61	n.	.....	.....	1	.....	2	nw.	nw.	0	0	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.36	644.2	.....	.....	23.2	— 4.9	100	nne.	.....	.....	2	.....	10	.....	.....	0.024	0.6	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	30.47	773.9	30.49	774.5	48.9	9.4	73	calm	.....	.....	0	.....	10	.....	.....	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.30	769 6	30.52	775.2	46.8	8.2	72	nw.	.....	.....	1	.....	0	.....	.....	0.106	2.7	clear.....	M. Brotier, Director.
Rodez, Normal School	28.21	716.5	30.45	773.3	39.4	4.1	48	n.	.....	.....	1	.....	kn	.....	e.	0	0	.....	M. Seger, Director.
Rouen, Normal School	30.41	772.7	30.46	773.6	45.3	7.4	91	nnw.	.....	.....	1	.....	10	nw.	.....	0.087	2.2	covered.....	M. Moullot.
Saint Lô	.....	.....	.....	.....	44.6	7	94	w.	.....	.....	1	.....	10	w.	w.	0.016	0.4	covered.....	**M. Delaplanche, Dir.**
Saint Maur, Observatory	30.29	769.3	30.45	773.5	43.2	6.2	84	s.	.....	.....	1	.....	0	.....	.....	0.028	0.7	.....	M. Renou, Director.
Toulouse, Observatory	29.76	755.9	30.49	774.5	47.8	8.8	70	nw.	.....	.....	1	.....	5	nw.	.....	0	0	cloudy.....	M. Baillaud, Director.
Tours	30.30	769.6	30.48	774.1	45.3	7.4	77	nnw.	.....	.....	1	.....	2	ene.	n.	0.068	0.2	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.94	760.5	30.43	773.0	43.9	6.6	74	w.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.38	771.7	30.53	775.5	49.5	9.7	69	n.	2.0	0.9	.....	c	6 k	w.	.....	0	0	.....	**M. Cartier, Director.**
German.																			
Ansbach	28.90	734 0	30.43	772.8	36.7	2.6	80	w.	.....	.....	2	.....	4	w.	.....	0	0	.....	**Prof. Jnedt.**
Bamberg	29.48	748.8	30.33	770.4	37.4	3.0	75	calm	.....	.....	0	.....	7	.....	.....	0.039	1.0	.....	Prof. Dr. Hoh.
Berlin	30.17	766.2	30.32	770.1	34.5	1.4	71	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	**Meteorological Institute.**
Breslau	29.82	757.3	30.35	770.9	31.8	— 0.1	67	ssw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Royal University Obs'y
Carlsruhe	29.95	760.8	30.43	773.0	43.2	6.2	58	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	Albert Senz.
Cassel	29.55	750.6	30.26	768.7	41.4	5.2	78	s.	.....	.....	2	.....	5	s.	.....	0.079	2.0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	30.04	763.0	30.43	772.9	37.8	3.2	87	sse.	.....	.....	1	.....	10	.....	.....	0.031	0.8	.....	**Physical Society.**
Friedrichshafen	28.91	734.4	30.41	772.3	41.0	5.0	78	sw.	.....	.....	2	.....	5	n.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	30.19	766.9	30.28	769.2	35.2	1.8	93	sw.	.....	.....	3	.....	9	.....	.....	0	0	foggy.....	E. Preller.
Kiel	30.22	767.5	30.23	767.9	35.6	2.0	81	ssw.	.....	.....	2	.....	6	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.90	759.5	30.34	770.7	37.4	3.0	79	sw.	.....	.....	2	.....	9	.....	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	30.11	764.9	30.31	769.9	37.0	2.8	55	s.	.....	.....	1	.....	10	w.	.....	0	0	foggy	**Dr. Assmann.**
Memel	30.35	771.0	30.40	772.2	23.9	— 4.5	79	sse.	.....	.....	2	0	0	.....	.....	.....	.....	clear	Issermann.
Munich	28.52	724.3	30.40	772.2	38.3	3.5	71	nw.	.....	.....	1	.....	8	sw.	.....	0.067	1.7	.....	**Central Station.**
Neufahrwasser	30.37	771.5	30.39	771 9	28.6	— 1.9	78	s.	.....	.....	2	.....	1	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.85	758.1	30.38	771.7	37.4	3.0	85	w.	.....	.....	2	.....	10	.....	.....	0	0	foggy	Dicknether.
Stuttgart	29.42	747.3	30.35	770.9	40.1	4.5	79	n.	.....	.....	1	.....	6	w.	.....	0	0	foggy.....	Prof. Dr. **Schoder.**
Wustrow	30.29	769.4	30.32	770.0	34.0	1.1	75	ese.	.....	.....	2	0	2 s	.....	.....	0	0	.....	Profs. Brandes & **Reimer.**
Greek.																			
Athens	29.85	758.3	30.25	768.3	50.5	10.3	.....	w.	.....	.....	1.5	0	8 k	.....	.....	0	0	.....	Schmidt & Wourliesh.
Indian.																			
Kurrachee	30.02	762.5	30.07	763.9	72.9	22.7	49	sw.	19.0	8.5	.....	.....	6	ssw.	.....	0	0	d. clouds....	
Deesa	29.52	749.7	29.99	761.8	81.1	27.3	7	nnw.	11.0	4.9	.....	.....	4	w.	.....	0	0	**d.** clouds....	
Bombay	29.93	760.2	29.97	761.2	80.8	27.1	52	nnw.	26.0	11.6	.....	.....	1	wnw.	.....	0	0	d. clouds....	
Poona, Yarrowda	28.07	713.0	29.90	759.5	80.8	30.4	14	wnw.	7.0	3.1	.....	.....	7	w.	.....	0	0	**d.** clouds....	
Belgaum	27.40	695.9	29.89	759.2	87.1	30.6	11	e.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky.....	
Lahore	29.27	743.5	30.05	763.2	63.6	17.6	34	n.	4.0	1.8	.....	.....	3	.....	.....	0	0	blue sky.....	
Roorkee	29.05	737.9	29.97	761.3	68.8	20.4	35	w.	1.0	0.4	.....	.....	4	w.	.....	0	0	.....	
Agra	29.44	747.8	30.02	762.5	72.7	22.6	28	w.	.....	.....	.....	.....	5	.....	w.	0	0	d. clouds	
Nagpur	28.87	733.2	29.89	759.3	89.9	32.2	15	w.	8.0	3.6	.....	.....	2	w.	.....	0	0	d. clouds	
Jubbulpore	28.59	726.1	29.94	760.3	84.5	29.2	21	nnw.	2.0	0.9	.....	.....	4	.....	nw.	0	0	d. clouds....	
Lucknow	29.61	752.0	30.00	761.9	67.3	19.6	67	wnw.	4.0	1.8	.....	.....	5	ene.	.....	0	0	d. clouds....	
Allahabad	29.65	753.1	29.97	761.2	77.0	25.0	45	calm	0	0	.....	.....	9	.....	.....	0	0	overcast.....	
Patna	29.78	756.3	29.96	761 1	75.3	24.1	60	calm	2.8	1.3	.....	.....	8	nw.	nw.	0	0	d. clouds....	
Hazaribagh	27.93	709.4	29.96	761.0	74.6	23.7	36	nnw.	5.1	2.3	.....	.....	6	.....	.....	0	0	**d.** clouds....	

STATIONS.	Barometer: Corrected for instrumental error and for temperature. Inch.	Barometer: Corrected for instrumental error and for temperature. Mill.	Barometer: Reduced to sea-level. Inch.	Barometer: Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.84	757.9	29.92	760.0	87.1	30.6	44	ssw.	5.0	2.2	.....	.....	2	.....	.....	0	0	d. clouds	
Calcutta, Alipore	29.90	759.6	29.93	760.1	84.3	29.1	54	sw.	3.0	1.3	.....	.....	7	w.	.....	0	0	d. clouds	
Dhubri	29.80	756.8	29.92	759.8	77.4	25.2	44	calm	1.1	0.5	.....	.....	7	nw.	.....	0	0	d. clouds	
Chittagong	29.88	758.9	29.97	761.2	76.4	24.7	53	sw.	3.4	1.5	.....	.....	1	.....	.....	0	0	blue sky	
Sibsagar	29.65	753.0	30.00	761.9	64.9	18.3	81	ne.	2.0	0.9	.....	.....	2	.....	.....	0	0	blue sky	
Jeypore	28.54	724.8	30.00	762.0	73.7	23.2	17	ne.	2.5	1.1	.....	.....	4	nw.	.....	0	0	d. clouds	
Bellary	28.46	722.9	.....	.....	88.0	31.1	19	e.	4	1.8	.....	7 c	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.72	754.9	.....	.....	86.0	30.0	38	e.	1	0.4	.....	.....	0	.....	.....	0	0	blue sky	
ITALIAN.																			
Udine	29.93	760.3	30.36	771.1	42.6	5.9	43	n.	0.7	0.3	.....	.....	10	s.	.....	0	0	.....	**Prof. Giovanni Clodig.**
Milan	29.82	757.5	30.36	771.1	42.3	5.7	67	sw.	3.8	1.7	.....	.....	3	w.	.....	0	0	.....	**Prof. Schiapparelli.**
Padua	30.24	768.1	30.35	771.0	42.1	5.6	44	nw.	1.3	0.6	.....	.....	7	.....	.....	0	0	.....	**Prof. Dott. Lorenzoni.**
Moncalieri	29.42	747.3	30.36	771.2	42.8	6.0	71	ne.	1.8	0.8	.....	.....	2	ne.	.....	0	0	.....	**Prof. F. F. Denza.**
Genoa	30.10	764.4	30.29	769.4	43.9	6.6	61	n.	9.8	4.4	.....	.....	6	n.	.....	0	0	....	**Prof. G. M. Garibaldi.**
Mondovi	28.37	720.7	30.38	771.6	37.9	3.3	74	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.31	769.9	30.36	771.2	42.4	5.8	64	nw.	5.6	2.5	.....	.....	10	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	30.04	763.0	30.30	769.6	43.2	6.2	72	ne.	.....	.....	4	.....	10	.....	.....	0	0	.....	Prof. Costantino **Pittei.**
Leghorn	30.13	765.2	30.22	767.5	41.5	5.3	83	ene.	9.4	4.2	.....	.....	10	.....	.....	0.110	2.8	.....	**Prof. P. Monte.**
Rome	30.08	764.0	30.26	768.5	48.2	9.0	68	ese.	0	0	.....	.....	10	.....	.....	0.039	1.0	.....	Prof. P. Tachini.
Lecce	30.02	762.6	30.28	769.2	50.5	10.3	58	ene.	7.4	3.3	.....	.....	5	n.	.....	0	0	....	Prof. C. de Giorgi.
Cosenza	29.37	745.9	30.28	769.0	49.5	9.7	74	nw.	3.1	1.4	.....	.....	10	wnw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.90	760.9	30.15	765.9	59.2	15.1	67	se.	.....	.....	2	.....	2	w.	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.99	761.8	30.25	768.3	55.8	13.2	52	ne.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Prof. G. Caccintore.
Syracuse	30.19	766.7	30.23	767.8	55.0	12.8	80	ne.	1.3	0.6	.....	.....	10	wnw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.74	755.4	30.28	769.1	51.1	10.6	61	sw.	2.5	1.1	.....	.....	7	wsw.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.17	563.1	.....	.....	13.1	—10.5	60	se.	.....	.....	2	.....	0	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.19	563.7	.....	.....	22.6	— 5.2	53	e.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.34	770.6	30.37	771.4	38.2	3.4	87	calm	.....	.....	0	.....	10 ck	.....	nw.	0	0	cloudy	H. Hattori.
Awomori	30.28	769.1	30.32	770.1	28.8	— 1.8	61	w.	12.5	5.6	.....	.....	10 ck;ks	.....	w.	0.004	0.1	overcast	K. Ogawa.
Hakodate	30.30	769.5	30.31	769.8	26.0	— 3.3	88	n.	5.4	2.4	.....	0	5	.....	nnw.	0	0	fair	
Hamamatsu	30.21	767.3	30.24	768.0	48.6	9.2	61	calm	.....	.....	0	3 ck	0	w.	.....	0.340	8.8	fair	
Kagoshima	30.15	765.7	30.16	766.0	53.7	12.1	88	ne.	.....	.....	6	.....	10 n	.....	w.	0.453	11.5	raining	G. Miyanohaza.
Kioto	30.09	764.3	30.28	769.0	33.6	0.9	85	nw.	1.1	0.4	.....	6cs;ck	0	w.	.....	0.022	0.6	fair	M. Tojima.
Kochi	30.20	767.1	30.22	767.6	51.6	10.9	72	e.	7.3	3.2	.....	.....	10	.....	w.	0.094	2.4	overcast	K. Kusunose.
Miasaka	30.18	766.6	30.21	767.3	49.9	9.9	94	calm	.....	.....	0	.....	10 n	.....	nw.	0.618	15.7	raining	K. Masusaki.
Nagasaki, I. M. Obs'y	29.94	760.4	30.15	765.7	46.4	8.0	95	nne.	1.2	0.5	.....	.....	10 n	.....	.....	0.950	24.1	light rain	S. Takehayashi.
Niigata	30.33	770.4	30.37	771.4	34.8	1.6	84	sw.	1.1	0.4	.....	.....	10 ck	.....	wnw.	0	0	cloudy	M. Morita.
Nobiru	30.28	769.1	30.30	769.5	32.5	0.3	98	nw.	12.9	5.8	.....	0	0	.....	.....	0	0	clear	H. Midzushima
Numazu	30.22	767.7	30.26	768.6	47.1	8.4	78	calm	.....	.....	0	.....	10 ks	.....	.....	0.181	4.6	cloudy	R. Kaneda.
Osaka	30.20	768.6	30.28	769.0	36.1	2.3	77	nne.	9.0	4.0	.....	9 cs	0	w.	.....	0.075	1.9	fair	H. Omura.
Sakai	30.24	768.0	30.25	768.3	41.5	5.3	74	w.	.....	.....	4	.....	10 ks	.....	w.	0.370	9.4	cloudy	K. Yamawchi.
Sapporo	.....	.....	.....	.....	25.0	— 3.9	89	nw.	35.4	15.8	.....	.....	10	.....	.....	0	0	covered	
Tokei Obs'y, Yeddo	30.19	766.9	30.27	768.9	38.6	3.7	97	wnw.	6.8	3.0	.....	9 cs	0	.....	.....	0.015	0.4	cloudy	The Staff.
Wakayama	30.19	766.9	30.25	768.3	41.1	5.1	72	nne.	4.0	1.8	.....	.....	rock;s	.....	n.	0.123	3.1	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.71	754.6	29.90	759.4	81.8	27.7	70	w.	11.0	4.9	.....	0	5 k;ks	.....	wnw.	0.03	0.8	fair	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	54.8	12.7	96	nw.	9.8	4.4	.....	.....	.....	.....	.....	.....	.....	clear	**H. Diaz Pena.**
Guanajuato	23.75	603.3	29.97	761.3	53.1	11.7	91	sw.	lmp.	lmp.	.....	1 c	0	w.	.....	0	0	clear	**Prof. Vicente Ferrandez.**
Leon	24.40	619.7	30.18	766.0	51.4	10.8	81	ene.	.....	.....	1	4 c	5 ck	sw.	sw.	0	0	very cloudy	**Prof. M. Leal.**
Mazatlan	29.82	757.5	30.09	764.3	59.0	15.0	73	wnw.	1.6	0.8	.....	1 cs	0	.....	.....	0	0	clear	**F. Quijano, C. E.**
Mexico, Central Obs'y	23.18	588.8	30.35	770.8	48.2	9.0	84	nw.	0.4	0.2	.....	0	8 ku	.....	.....	0.323	8.2	cloudy	The Staff.
Morelia	24.20	614.6	30.10	764.5	52.7	11.5	68	s.	.....	.....	2	3 c	6 k	e.	e.	0.087	2.2	cloudy	**M. Tena, M. D.**
Pabellon	24.05	610.8	30.17	766.2	50.9	10.5	83	calm	0	0	.....	0	2 s	.....	sw.	0	0	clear	
Puebla, Catholic Institute	23.43	595.0	30.32	770.2	45.5	7.5	81	calm	0	0	.....	0	0	.....	.....	0	0	clear	**Prof. P. Spina.**
Zacatecas	22.58	573.6	30.35	770.9	43.7	6.5	92	ese.	8.9	4.0	.....	5 c	5 sn	ssw.	ese.	0	0	covered	I. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.34	770.5	30.34	770.5	44.8	7.1	.....	sw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	30.19	766.7	30.24	768.1	39.9	4.4	.....	sw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.008	0.2	.....	
Hellevoetsluis	30.30	769.7	30.30	769.7	44.4	6.9	83	sw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	30.27	768.8	30.32	770.0	44.8	7.1	77	sw.	.....	.....	2	.....	2	.....	.....	0.016	0.4	lightly cld'y	H. van der Brink
Sub-series.																			
Batavia, Java	29.87	758.6	.....	.....	79.0	26.1	88	nw.	0	0	.....	.....	5	.....	.....	0.04	1.	.....	**Dr. I. P. van der Stok.**
NORWEGIAN.																			
Bergen	29.65	753.0	29.71	754.6	34.2	1.2	85	s.	34	15	.....	.....	10	.....	.....	0.270	7.0	snowing	
Brono	29.52	749.9	29.56	750.9	31.6	— 0.2	66	s.	.....	.....	0	.....	8	.....	.....	0	0	.....	
Christiania	29.94	760.4	30.10	764.4	26.4	— 3.1	89	sse.	7	3	.....	.....	10	.....	.....	.....	.....	snowing	
Gjæsvær	29.57	751.0	29.59	751.6	29.1	— 1.6	.....	sse.	.....	.....	7	.....	0	.....	.....	.....	.....	.....	
Lodingen	29.54	750.4	29.59	751.6	34.2	1.2	47	sse.	.....	.....	7	.....	5	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	30.45	773.4	30.61	777.4	56.8	13.8	94	se.	4.9	2.2	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.23	742.5	30.26	768.5	51.3	10.7	93	ne.	13.6	6.1	.....	.....	8	.....	.....	0	0	.....	**Dr. A. M. R. dos Santos.**
Funchal, Madeira	30.09	764.2	30.18	766.5	59.7	15.4	80	n.	11.2	5.0	.....	.....	8	.....	.....	0.512	13.0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.92	760.0	30.29	769.3	53.1	11.7	42	ene.	37.4	16.7	.....	.....	0	.....	.....	0.004	0.1	.....	The Staff
Ponta Delgada, Azores	30.54	775.8	30.61	777.6	61.5	16.4	56	calm	0	0	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.59	751.5	29.78	756.5	84.0	28.9	87	wnw.	0.7	0.3	.....	.....	8	.....	.....	0.575	14.6	.....	
Serra da Estrella	25.45	646.5	30.43	773.0	29.3	— 1.5	91	ene.	40.9	18.3	.....	.....	4	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.39	746.6	30.05	778.4	—10.3	—23.5	82	nne.	16	7	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	30.00	777.2	30.02	777.7	18.3	— 7.6	95	ssw.	13	6	.....	.....	10	.....	.....	0	0	.....	Capt. Sselliwerstow.
Ashurada	30.32	770.0	30.22	767.6	41.9	5.5	67	nnw	0	4	.....	0	2 k	.....	.....	0	0	.....	
Astrakhan	30.75	781.1	30.07	779.0	27.7	— 2.4	59	e.	9	4	.....	.....	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.58	776.7	30.53	775.5	41.7	5.4	86	calm	0	0	.....	0	7 ks	.....	.....	0	0	.....	
Barnaul	29.87	758.7	30.43	773.0	1.2	—17.1	83	n.	4	2	.....	.....	10	.....	.....	0.094	2.4	light clouds	Meteorological Obs'y.
Bielosersk	30.20	767.1	30.71	780.0	23.4	— 4.8	76	sse.	7	3	.....	.....	10 s	.....	.....	0	0	.....	
Dorpat	30.21	767.4	30.48	774.1	24.8	— 4.0	96	sse.	4	2	.....	.....	10 n	.....	.....	0.020	0.5	light snow	Observatory.
Ekaterinburg	29.67	753.7	30.72	780.2	21.4	— 5.9	74	w.	22	10	.....	0	0	.....	.....	blank	blank	.....	Meteorological Obs'y.
Elisawetgrad	30.00	762.1	30.49	774.5	18.1	— 7.7	81	calm	0	0	.....	.....	10 n	.....	.....	lmp.	lmp.	.....	
Irkutsk	28.46	722.8	30.25	768.3	0.1	—17.7	56	se.	.....	.....	3	.....	8	.....	.....	0	0	.....	
Kasalinsk	29.97	761.2	30.15	765.7	8.6	—13.0	74	nnw.	9	4	.....	0	0	.....	.....	.....	.....	.....	
Kasan	30.58	776.6	30.87	784.1	20.3	— 6.5	80	sse.	7	3	.....	.....	10	.....	.....	lmp.	lmp.	light snow	Observatory.
Kem	30.45	773.5	30.50	774.8	20.5	— 6.4	95	sw.	9	4	.....	.....	10	.....	.....	0	0	heavy cl'ds	
Kertch	30.30	769.5	30.32	770.0	30.9	— 0.6	88	ne.	4	2	.....	0	4 k	.....	.....	0	0	.....	Lagorio & Sastyrez.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind. Upper.	CLOUDS. Amount and kind. Lower	CLOUDS. Direction. Upper.	CLOUDS. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Kieff	29.81	757.2	30.51	775.0	12.2	—11.0	89	nne.	4	2			10 ks;n			0.008	0.2	snowing	Observatory.
Koslov	30.16	766.1	30.76	781.2	6.3	—14.3	97	ese.	11	5			10 s			0	0		
Libau	30.39	771.9	30.41	772.5	23.9	— 4.5	65	sw.	7	3			0			0	0		E. Quaas.
Lugan	30.28	769.0	30.48	774.1	21.6	— 5.8	78	ene.	22	10			10			0.004	0.1		Meteorological Obs'y.
Moscow	30.18	766.5	30.73	780 5	4.3	—15.4	91	ese.	4	2			10 n			0.008	0.2	light snow..	Meteorological Obs'y
Nikolaiev	30.39	772.0	30.47	773.9	23.0	— 5.0	71	calm	0	0			10 n			0.012	0.3	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.28	761.5	30.07	763.7	4.6	—15.2	64	w.	16	7			0			0	0		Iwanow.
Pekin, China	30.23	767.8	30.38	771.6	28.8	— 1.8	78	calm	0	0		0	8 n			0	0		Physical Observatory.
Petro-Alexandrovsk	30.30	769.7	30.69	779.4	26.4	— 3.1	59	nne.	2	1		0	0			0	0		
Petrozavodsk	30.37	771.3	30.58	776.7	24.1	— 4.4	86	se.	11	5			10			inap.	inap.	light clouds	Dr. Bergmann.
Pinsk	29.98	761.4	30.52	775.1	20.8	— 6.2	71	sse.	9	4		c	6 s			0	0		
Poti	30.19	766.8	30.21	767 3	58.6	14.8	37	e.	4	2		0	0			0	0		
St. Petersburg	30.50	774.7	30.52	775.1	24 1	— 4.4	81	sse.	11	5			10 n			0.004	0.1	light snow..	Central Physical Obs'y.
Samarkand	28.00	711.2	30.71	780.0	17.4	— 8.1	74	calm	0	0		0	0						
Semipalatinsk	29.81	757.2	30.52	775.3	11.1	—11.6	89	sw.	9	4			10			0	0		Major Lasarew.
Sevastopol	30.05	763.3	30.28	769.2	39.0	3.9	73	nnw.	20	9		0	5 n			0	0		
Staroi Bykhov	30.10	764.5	30.61	777.5	7.3	—13.7	96	se.	4	2			10					light snow.	
Tashkend	28.85	732 9	30.67	779.0	24.3	— 4.3	55	n.	7	3		0	1 k			0	0		Terch, A. M.
Tiflis	29.01	736.9	30.50	774.7	37.6	3.1	53	s.	9	4		1 cs	0			0	0		Physical Observatory.
Vernoe	27.81	706.3	30.52	775.3	18.5	— 7.5	69	w.	4	2			9 n						
Viatka	30.17	766.2	30.86	783.8	15.8	— 9.0		wnw.	2	1			10			0	0		
Vladivostock	30.32	770.2	30.39	771.9	16.9	— 8.4	28	ne.	4	2			0			0	0		
Warsaw	29.97	761.2	30.43	772.8	24.8	— 4.0	57	ne.	11	5		0	0			0	0		Astronomical Obs'y.
Wilna	30.06	763.4	30.52	775.1	17.1	— 8.3	58	s.	2	1			0			0	0		Berg, Assistant.
Yeniseisk	30.16	766.1	30.51	774.9	—29.0	—33.9	72	nw.	2	1			0			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.78	756.4	46	7.8	92	w.			6		10			0.3	8.		J. Youngclause.
North Unst			29.52	749.8				w.			7	3	4	sw.					Robt. Burnet.
SPANISH.																			
Barceiona, Met. Obs'y	30.26	768.6	30.37	771.3	53.6	12.0	57	w.	3.1	1.4		0	6			0.008	0.2		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.50	774 6	30.56	776.1	52.9	11.6	75	n.	0.9	0.4		2	3	e.		0.071	1.8	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.43	696.6	30.54	775.7	39.2	4.0	78	ne.	11.6	5.2		0	2			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	28.09	713.4	30.40	772.2	44.6	7.0	59	ne.	27.1	12.1			10			inap.	inap.	covered, ...	The Staff.
Murcia, Met. Obs'y	30.11	764.9	30.24	768.0	52.7	11.5	84	ene.	3.8	1.7		4	6	w.		0.039	1.0	covered	Olayo Diaz, Director.
Oviedo	29.61	752.2	30.51	775.0	44.2	6.8	90	n.	3.4	1.5		4 k	2 kn	s.	s.	0	0	fair	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.52	749.8	30.44	773.2	50.9	10.5	84	ne.	19.2	8.6			7			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.97	761.2	30.03	762.7	75.3	24.1	70	ne.	7.7	3.4			k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.05	763.3	30.15	765.8	55.9	13.3	64	ene.	7.3	3.3			10		e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.99	761.8	30.08	764.1	74.8	23.8	92	e.	12.1	5.4		5 k	5 kn	ne.	ne.	0.020	0.5	overcast	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	30.29	769.4	30.33	770.4	11.5	—11.4	100	sw.			4		10					snowing	
Umea	30.22	767.7	30.28	769.0	25.2	— 3.8	87	sw.			6		10			0	0		
Hernosand	30.19	766.8	30.24	768.1	26.6	— 3.0	78	sw.			6		8			0	0		
Stockholm	30.13	765.2	30.30	769.7	29.8	— 1.2	65	s.			4		1			0	0		
Wisby	30.28	769.2	30.34	770.7	14.4	— 9.8	66	ssw.			4		3			0	0		
Sub-series.																			
Upsala	30.19	766.7	30.27	768.9	26.6	— 3.0	87	ese.	12.1	5.4			0			0.024	0.6		S. G. Fineman.
SWISS.																			
Geneva	28.93	734.8	30.39	772.0	40.8	4.9	70	n.			4		1			0	0	clear	The Observatory.
TURKISH.																			
Constantinople			30.28	769 1	34.0	1.1	92	n.	18	8.0			10		n.	0.118	3.0		The Observatory.
Valona			30.29	769.4	52.2	11.2		nw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.98	761.5	62.2	16.8	63	ne.			2		7 n		sw.	0.02	0.5		Prof. C. V. A. van Dyck.
Samokov, Bulgaria																			Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.31	769.9	30.40	772.1	21.8	— 5.7	84	n.	1	0.4		4 cs	hz.			0	0	fair	J. O. Barnes.
Alpena, Michigan	29.38	746.2	30.08	764.0	15	— 9.4	83	sw.	2	0.9			10 n			inap.	inap.	light snow..	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.66	636.5	30.16	766.1	30	— 1.1	71	ne.	2	0.9		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.49	698.2	30.53	775.4	14	—10.0	67	ne.	17	7.6			10 s		nw.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.18	741.2	30.40	772.1	38.5	3.6	66	ne.	5	2.2		0	0			0	0	clear	H. C. Smyth.
Atlantic City, New Jersey	30.38	771.6	30.39	771.9	32	0.0	78	e.	12	5.4		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.22	767.6	30.42	772.7	37	2.8	89	calm	0	0			fg.			0	0	dense fog	John Healy.
Baltimore, Maryland	30.36	771.1	30.42	772.7	35	1.7	69	w.	2	0.9		0	fg.			0	0	clear	Geo. W Felger.
Barnegat, New Jersey	30.38	771.6	30.40	772.1	33.0	0.6	69	e.	12	5.4		0	0			0	0	clear	G. A. Hill.
Behring Id., Behring Sea	30.49	774 4	30.51	774 9	19.3	— 7.1		e.	5	2.2		0	0			0	0	clear	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.86	733.0	30.59	777.0	23	— 5.0	88	n.	4	1.8			10 s			0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.51	698.7	30.51	774.9	19	— 7.2	87	ne.	6	2.7			10 n		ne.	0.01	0.3	light sleet	S. Wheaton.
Billings, Montana	27.03	686.5			28	— 2.2	67	sw.	3	1.3		0	2 s			0	0	clear	T. Gibson.
Bismarck, Dakota	28.61	726.7	30.59	777.0	10	—12.2	80	n.	6	2.7		2 cs	0	n.		0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.38	771.6	30.42	772.7	25.7	— 3.5	64	ne.	12	5.4		5 ck	2 ks	w.	e.	0	0	fair	J. T. Elker.
Boise City, Idaho	27.48	698.0	30.44	773.2	22	— 5.6	87	n.	1	0.4			10 s			0	0	cloudy	B. E. Light.
Boston, Massachusetts	30.25	768.3	30.41	772.4	22.0	— 5.6	44	w.	5	2.2		6 cs	0			inap.	inap.	fair	O. B. Cole.
Brownsville, Texas	30.31	769.9	30.36	771.1	44.0	6.7	68	n.	6	2.7		0	5 s			0	0	fair	M. McCarty.
Buffalo, New York	29.47	748.5	30.27	768.8	23	— 5.0	88	s.	3	1.3			10 s;sk			0.02	0.5	cloudy	W. Finn.
Buford, Fort, Dakota	28.48	723.4	30.66	778.7	12	—11.1	83	n.	1	0.4			10 s			0	0	cloudy	F. A. Mellen.
Burlington, Vermont	30.05	763.3	30.36	771.1	12.6	—10.8	80	calm	0	0		1 cs	0	w.		inap.	inap.	clear	D. N. Farnell.
Cairo, Illinois	30.02	762.5	30.44	773.2	34.8	1.6	73	s.	6	2.7		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.38	771.6	30.40	772.1	39	3.9	73	ne.	10	4.5		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.36	771.1	30.39	771.9	33.0	0.6	63	ne.	8	3.6		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California																			J. J. McLean.
Cedar Keys, Florida	30.25	768.3	30.27	768.8	52	11.1	80	ne.	9	4.0			10 s			0	0	cloudy	F. W. Mixer.
Champaign, Illinois	29.34	745.2	30.21	767.3	35.3	1.8	58	sw.	16	7.2			10 s		sw.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.29	769.4	30.35	770.9	41	5.0	79	ne.	9	4.0		0	0			0.03	0.8	clear	J. H. Smith.
Charlotte, N. Carolina	29.59	749.3	30.40	772 1	36.0	2.2	69	ne.	2	0.9		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.56	750.8	30.42	772.7	34.5	1.4	83	n.	2	0.9		1 cs	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.28	616.7	30.53	775.4	24.4	— 4.2	56	nw.	1	0.4		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.37	746.0	30.12	765.0	38.5	3.6	51	sw	12	5.4			10 s			0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.38	771.6	30.40	772.1	33	0.6	78	ne.	6	2.7		hz.	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.68	753.9	30.37	771.4	34	1.1	78	sw.	2	0.9		0	4 s		sw.	0	0	fair	R. B. Watkins.
Cleveland, Ohio	29.46	748.3	30.25	768.3	32	0.0	72	s.	10	4.5		10 k	0	w.		0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.56	725.4	30.44	773.2	34	1.1	82	sw.	2	0.9		6 cs	0			0	0	fair	L. Dorman.
Columbus, Ohio	29.41	747.0	30.31	769.9	32	0.0	78	s.	6	2.7		0	8 s		sw.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.41	721.6	30.43	772.9	35.0	1.7	72	calm	0	0		0	2 s			0	0	clear	J. McGlone.
Davenport, Iowa	29.44	747.8	30.14	765.5	42	5.6	65	w.	8	3.6		9 cs	0	w.		0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.40	645.1	30.36	771.1	29	— 1.7	61	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.54	724.9	30.35	770.9	27	— 2.8	100	nw.	1	0.4			fg.			0.13	3.3	dense fog	D. Moors.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.59	650.0	30.51	774.9	29	— 1.7	81	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.39	771.9	30.41	772.4	34	1.1	78	ne.	9	4.0	.....	0	hz.	.....	.....	0	0	clear	T. S. Townsend.
Denison, Texas	29.60	751.8	30.44	773.2	38.0	3.3	53	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Denver, Colorado	25.02	635.5	30.54	775.7	33.0	0.6	74	se.	6	2.7	.....	1 c	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.30	744.2	30.27	768.8	35	1.7	69	n.	11	4.9	.....	7 ck	0	nw.	.....	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.44	747.8	30.19	766.8	35.0	1.7	82	s.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	E. R. Brace.
Dodge City, Kansas	27.67	702.8	30.41	772.4	30	— 1.1	60	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	V. P. Temple.
Dubuque, Iowa	29.36	745.7	30.12	765.0	35.7	2.1	75	w.	1	0.4	.....	.....	10 s	.....	w.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.48	748.8	30.29	769.4	14	—10.0	80	w.	6	2.7	.....	0	3 s	.....	w.	0.21	5.3	clear	N. B. Conger.
Eagle Pass, Texas	29.60	751.8	30.44	773.2	44.1	6.7	76	se.	2	0.9	.....	0	5 s	.....	.....	0.01	0.3	fair	F. Belford.
Eagle Rock, Idaho	25.66	651.8	30.56	776.2	6	—14.4	80	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	30.35	770 9	30.42	772.7	6.0	—14.4	76	ne.	9	4.0	.....	2 c	0	.....	.....	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.49	698.2	30.39	771.9	36	2.2	58	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
El Paso, Texas	26.44	671.6	30.32	770.1	36.0	2.2	58	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.48	748.8	30.25	768.3	31	— 0.6	78	s.	8	3.6	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	Peter Wood.
Escanaba, Michigan	29.32	744.7	30.04	763.0	17.0	— 8.3	83	w.	3	1.3	.....	.....	10 n	.....	.....	0.13	3.3	light snow	George Heathcote.
Fredericksburg, Texas	28.60	726.4	30.40	772.1	35	1.7	82	w	2	0.9	.....	2 cs	0	.....	.....	0	0	clear	Frank Halwegler.
Galveston, Texas	30.33	770.4	30.38	771.6	47	8.3	63	ne.	11	4.9	.....	2 cs	0	sw.	.....	0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.36	745.7	30.07	763.8	33.0	0.6	88	s.	12	5 4	.....	.....	10 s	.....	s.	0.01	0.3	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.21	640.3	30.07	763.8	37	2.8	40	e.	24	10.7	.....	0	8 s	.....	se.	0	0	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.33	770.4	30.35	770.9	42	5.6	65	ne.	20	8.9	.....	3 c	0	se.	.....	0	0	clear	R. M. Crawford.
Helena, Montana	26.01	660.6	30.41	772.4	32	0.0	81	calm	0	0	.....	5 cs	0	calm	.....	0	0	fair	N. C. Smith.
Henrietta, Texas	29.36	745.7	30.41	772 4	30	2.2	79	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Huron, Dakota	29.02	737.1	30.54	775.7	10.2	—12.1	88	nw.	11	4.9	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.42	747.3	30.28	769.1	35.0	1.7	79	sw.	7	3.1	.....	0	9s;hz	.....	sw.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.34	770.6	30.37	771.4	45.6	7.6	65	n.	14	6.3	.....	0	2 s	.....	.....	0	0	clear	I. A. Reed.
Jacksboro, Texas	29.24	742.7	30.48	774.2	35	1.7	64	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Jacksonville, Florida	30.25	768.3	30.30	769.6	48	8.9	93	calm	0	0	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.82	706.6	30.50	774.7	25	— 3.9	76	ne.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	A. Schneider.
Keokuk, Iowa	29.52	749.8	30.22	767.6	37.0	2.8	72	sw.	8	3.6	.....	hz.	0	.....	.....	0	0	dense haze	F. Z. Gosewisch.
Key West, Florida	30.13	765.3	30.15	765.8	71.0	21.7	84	ne.	11	4.9	... ...	0	4 k	.....	ne.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.37	771.4	30.39	771.9	42	5.6	65	ne.	22	9.8	.....	0	0	.....	.....	0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.33	745.0	30.41	772.4	29.8	— 1.2	90	calm	0	0	.....	0	sk.	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.34	745.2	30.18	766.6	31	— 0.6	68	nw.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.39	746.5	30.34	770.6	37	2.8	61	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.52	749.8	30.39	771.9	37.0	2.8	85	ne	9	4.0	.....	4 cs	0	.....	.....	0.03	0.8	fair	W. Bell.
Little Rock, Arkansas	30.14	765.5	30.47	773.9	34	1.1	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.65	753.1	30.05	763.3	52	11.1	72	e.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. S. Collius.
Louisville, Kentucky	29.75	755.6	30.34	770.6	38	3.3	61	s.	6	2.7	.....	2 c	1 s	w.	.....	0	0	clear	L. M Dey.
Lynchburg, Virginia	29.66	753.4	30.38	771.6	32	0.0	78	w.	1	0.4	.....	3 c	0	w.	.....	0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.31	744.5	30.01	762.2	15.0	— 9.4	83	e.	9	4.0	.....	.....	10 n	.....	.....	0.17	4.3	light snow	F. R. Day.
Macon, Fort, North Carolina	30.36	771.1	30.37	771.4	39.0	3.9	82	n.	12	5.4	.....	0	2 s	.....	n.	0	0	clear	William Daly.
Madison, Wisconsin	29.01	736.8	30.10	764.5	32	0.0	68	w.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.78	654.8	30.32	770.1	28	— 2.2	37	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. Burke.
McKavett, Fort, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thatcher.
Marquette, Michigan	29.24	742.7	30.02	762.5	18	— 7.8	67	nw.	8	3.6	.....	.....	10 n	.....	.....	0.06	1.5	light snow	J. Gilligan.
Memphis, Tennessee	30.10	764.5	30.45	773.4	37	2.8	80	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.26	743.2	30.06	763.5	33	0.6	78	w.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	W. Line.
Missoula, Fort, Montana	26.96	684.8	30.40	772.1	32	0.0	71	n.	1	0.4	.....	0	5 ks	.....	.....	0.01	0.3	fair	I. H. Young.
Mobile, Alabama	30.32	770.1	30.36	771.1	41.5	5.3	87	n.	5	2.2	.....	1 c	0	sw.	.....	0	0	clear	C. A. Read.
Montgomery, Alabama	30.13	765.3	30.37	771.4	40	4.4	78	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. McLaughlin
Moorhead, Minnesota	29.40	746.7	30.50	774.7	— 2	—18.9	100	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.30	744.2	30.37	771.4	29.5	— 1.4	90	calm	0	0	.....	0	4 s	.....	w.	0	0	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.58	598.9	30.20	767.1	— 6.6	—21.4	86	nw.	40	17.9	.....	1 c	0	nw.	.....	0.06	1.5	clear	S. W. Beall.
Nashville, Tennessee	29.80	756.9	30.41	772.4	32.0	0.0	83	se.	1	0.4	.....	9 cs	0	sw.	.....	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.29	769.4	30.41	772.4	18	— 7.8	84	calm	0	0	.....	0	1 s;fg	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.40	772.1	30.45	773.4	23	— 5.0	73	n.	2	0.9	.....	3 cs	0	s.	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.30	769.6	30.36	771.1	49.0	9.4	93	ne.	8	3.6	.....	7 c	0	.....	.....	0	0	fair	L. Dunne.
Newport, Rhode Island	30.36	771.1	30.41	772.4	22.0	— 5.6	73	n.	4	1.8	.....	1 c	1s;hz	.....	.....	0	0	clear	W. McGillivray.
New York, New York	30.23	767.8	30.42	772.7	28.5	— 1.9	77	ne.	8	3.6	.....	3 cs	5 s	.....	w.	0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	30.37	771.4	30.40	772.1	38	3.3	72	e.	2	0.9	.....	0	hz; sk	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.40	695.9	30.50	774.7	24.0	— 4.1	72	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.18	766.6	30.22	767.6	49.0	9.4	93	calm	0	.....	.....	.....	0	.....	.....	0.08	2.0	cloudy	J. Dascomb.
Omaha, Nebraska	29.14	740.1	30.41	772 4	34.4	1.3	72	n	11	4.9	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Ooglaamie, Alaska	30.16	766.1	30.18	766.6	— 6.5	—21.4	.....	nnw.	12	5.4	.....	5 k	3 s	nw.	nw.	inap	inap.	cloudy	P. H. Ray.
Oswego, New York	29.97	761.2	30.32	770.1	23.0	— 5.0	73	s.	2	0.9	.....	5 cs	3 s	nw.	nw.	0.02	0.5	cloudy	J. G. Linsley.
Palestine, Texas	29.87	758.7	30.45	773.4	39.0	3.9	54	ne.	10	4.5	.....	0 cs	0	.....	.....	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.32	770.1	30.35	770.9	42.1	5.6	966	n	6	2.7	.....	2 c	0	nw.	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	30.31	769.9	30.42	772.7	34	1.1	60	e.	3	1.3	.....	0	4 ks	.....	w.	0	0	fair	E. M. Mattison.
Pike's Peak, Colorado	17.98	456.7	30.70	779.8	16	— 8.9	76	nw.	.....	.....	4	0	0	.....	.....	0	0	clear	H. Hall.
Ploche, Nevada	24.20	614.7	30.36	771.1	33	0.6	57	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.48	748.8	30.34	770.6	30.0	— 1.1	78	s.	8	3.6	.....	0	3 s	.....	.....	0	0	clear	W. A. Reid.
Poplar River, Montana	28.30	718.8	30.05	778.5	.....	.....	.....	w.	.....	.....	1	0	0	.....	.....	0	0	clear	W. O. Maxwell.
Port Eads, Louisiana	30.32	770.1	30.32	770.1	54.2	12.3	86	ne.	11	4.9	.....	0	7 s	.....	e.	0	0	fair	H. B. Boyer.
Port Huron, Michigan	29.42	747.3	30.15	765.8	27.3	— 2.6	88	s.	8	3.6	.....	.....	10 n	.....	.....	0.08	2.0	heavy snow	W. O. Bailey.
Portland, Maine	30.36	771.1	30.41	772 4	18.5	— 7.5	60	n	6	2.7	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger
Portland, Oregon	30.20	767.1	30.27	768.8	38.2	3.4	89	nw.	6	2.7	.....	.....	10 s	.....	n.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	44	6.7	85	ne.	25	11.2	.....	0	hz.	.....	.....	0	0	clear	F. S. Coburn.
Prescott, Arizona	24.80	629.9	30.16	766.1	33.0	0.6	81	s.	2	0.9	.....	.....	9 s	.....	se.	0	0	cloudy	Jas Cassidy.
Provincetown, Mass.	30.36	771.1	30.39	771.9	25	— 3.9	94	n.	5	2.2	.....	0	2 s	.....	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.20	767.1	30.21	767.3	62	16.7	87	ne.	12	5.4	.....	.....	10 s	.....	ne.	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.73	755.1	30.10	764.5	45	7.2	83	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	29.58	751.3	30.29	769.4	17	— 8.3	91	s.	5	2.2	.....	.....	10s;sk	.....	.....	0.01	0.3	cloudy	E. W. McGann
Roseburg, Oregon	29.69	754.1	30.20	768.6	43.4	6.3	92.	ne.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. J. Nanry.
Sacramento, California	30.00	762.0	30.08	764.0	46.9	8.3	86	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.70	754.4	30.34	770.6	35.7	2.1	64	sw.	9	4.0	.....	0	7 k	.....	w.	0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.73	755.1	29.76	755.9	10	—12.2	100	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt
St. Paul, Minnesota	29.30	744.2	30.24	768.1	24.5	— 4.2	80	nw.	14	6.3	.....	4 k	1 s	n.	.....	inap.	inap.	fair	P. F. Lyons.
St. Vincent, Minnesota	29.47	748.5	30.44	773.2	— 7	—21.7	76	nw.	2	0.9	.....	0	0	.....	.....	0.09	2.3	clear	O. B Dilley.
Salt Lake City, Utah	25.94	658.9	30.50	774.7	24	— 4.4	53	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.68	753.9	30.40	772.1	41.5	5.3	54	n.	5	2.2	.....	4 c	0	.....	.....	0	0	fair	T. J. Kenan.
San Diego, California	30.00	762.0	30.08	764.0	55.1	12.8	60	se.	6	2 7	.....	.....	9 s	.....	.....	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.49	749.0	30.21	767.3	35	1.7	69	sw.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.38	771.6	30.41	772.4	31.0	— 0.6	78	e.	8	3.6	.....	9 k	0	e.	.....	0	0	cloudy	B. A. Blundon.
San Francisco, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	N. Gorom.
Santa Fé, New Mexico	23.40	594.3	30.48	774.2	36.3	2.4	57	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.26	768.6	30.35	770 9	40	4.4	70	n.	6	2.7	.....	0	0	.....	.....	0.05	1.3	clear	H. W. Ford.
Shaw, Fort, Montana	26.58	675.1	30.43	772.9	26	— 3.3	97	ne.	3	1.3	.....	8 k	0	nw.	.....	0	0	cloudy	A. L. Matthews.
Shreveport, Louisiana	30.18	766.6	30.43	772.9	36	2.2	79	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	29.12	739.6	30.44	773.2	35	1.7	69	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.36	618.7	30.20	767.1	40.0	4.4	95	se.	3	1.3	.....	.....	10 s	.....	se.	0	0	cloudy	N. D. Lane.
Sitka, Alaska	29.81	757 2	29.88	758.9	38	3.3	82	e	4	1.8	.....	.....	10 s	.....	e.	0.16	4.1	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.93	760.2	30.43	772.9	29.0	— 1.7	88	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.30	769.6	30.34	770.6	37	2.8	72	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	O. Parker.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
UNITED STATES.—Coll'd.																			
Spokane Falls, Wash. Ter.	28.24	717.3	30.36	771.1	37	2.8	96	e.	1	0.4	.....	.....	10 s	.....	.....	0.14	3.6	cloudy	H. Clifford.
Springfield, Illinois	29.52	749.8	30.25	768.3	39	3.9	65	sw.	10	4.5	.....	3 c	2 s	w.	w.	0	0	fair	T. B. Jennings.
Springfield, Missouri	28.90	734.0	30.41	772.4	34.0	1.1	60	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Starkville, Miss.	29.93	760.2	30.43	772.9	36	2.2	69	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	C. Dill.
Stevenson, Fort, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Schneider.
Stockton, Fort, Texas	27.26	692.4	30.39	771.9	43	6.1	60	se.	6	2.7	.....	9 cs	0	se.	.....	0	0	cloudy	A. J. Warren.
Thatcher's Island, Mass.	30.36	771.1	30.42	772.7	24.5	— 4.2	67	nw.	9	4.0	.....	3 c	0	w.	.....	0	0	clear	G. Liebmann.
Thomas, Camp, Arizona	27.35	694.7	30.18	766.6	50	10.0	54	e.	.....	.....	2	0	3 s	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.46	748.3	30.20	767.1	34	1.1	71	sw.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	A. Buell.
Tucson, Arizona	27.58	700.5	30.06	763.5	55	12.8	53	s.	7	3.1	.....	.....	9 ks	.....	se.	0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	30.04	763.0	30.42	772.7	32	0.0	88	se.	4	1.8	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	48.4	9.1	58	w.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	30.17	766.3	30.44	773.2	35.9	2.2	62	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	James Kenealy.
Visalia, California	29.67	753.6	30.05	763.3	47.8	8.8	75	se.	2	0.9	.....	4 cs	0	.....	.....	0	0	fair	O. D. Stewart
Washakie, Fort, Wyoming	24.73	628.1	30.49	774.4	8.7	—12.9	81	w.	5	2.2	.....	3 ck	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.29	769.4	30.41	772.4	28.7	— 1.8	86	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26 32	668.5	30.45	773 4	26	— 3.3	56	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg
Williamsport, Pa.	29.72	754.9	30.36	771.1	30	— 1.1	67	calm	0	0	.....	4 k	2 ks	w	w.	0	0	fair	B. F. Hough.
Wilmington, N. Carolina	30.30	769.6	30.36	771.1	36	2.2	69	ne.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.83	656 1	30.35	770.9	34.5	1.4	76	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	29.06	738.1	30.48	774.2	18	—7.8	67	n.	17	7.6	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.90	759.4	30.05	763.3	50.2	10.1	93	ne.	3	1.3	.....	.....	10 n	.....	e.	0.16	4.1	light rain	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	21.96	557.8	.....	.....	55.0	12.8	83	n.	1	0.4	.....	0	6k; s	.....	n.	0.89	22.6	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	69	20.6	87	n.	2	0.9	.....	0	1 s	.....	.....	0	0	clear	Robert Johnston.
Paramaribo, S. A.	29.99	761.7	29.99	761.7	78	25.6	86	e.	.....	.....	3	.....	8 ks	.....	e.	0.030	0.8	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.34	745.2	29.90	759.4	79	26.1	80	calm	.....	.....	0	5 ck	3 s	calm	calm	0	0	cloudy	Francisco J. Olegeroz.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75	23.9	90	ne.	.....	.....	3	0	2 ks	.....	.....	0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.50	749.3	29.56	750.8	34	1.1	89	ne.	.....	.....	2	.....	10 n	.....	.....	0.54	13.7	light rain	W. J. Fisher.
St. Thomas, W. I.	29.94	760.5	30.07	763.8	74	23.3	60	ne.	.....	.....	.....	0	3 k	.....	ne.	0	0	clear	Aug. Wallon.
Havana, Cuba	30.05	763.3	30.11	764.8	66.6	19.2	91	s.	1	0.4	.....	0	2 k	.....	ne.	0	0	clear	Benito Vines, S. J.
York Factory, B. A	30.05	763.3	30.12	765.0	— 2.5	—19.2	83	w.	24	10.7	.....	2 c	2 s	w.	w.	inap.	inap.	fair	Fortesque & Wood.

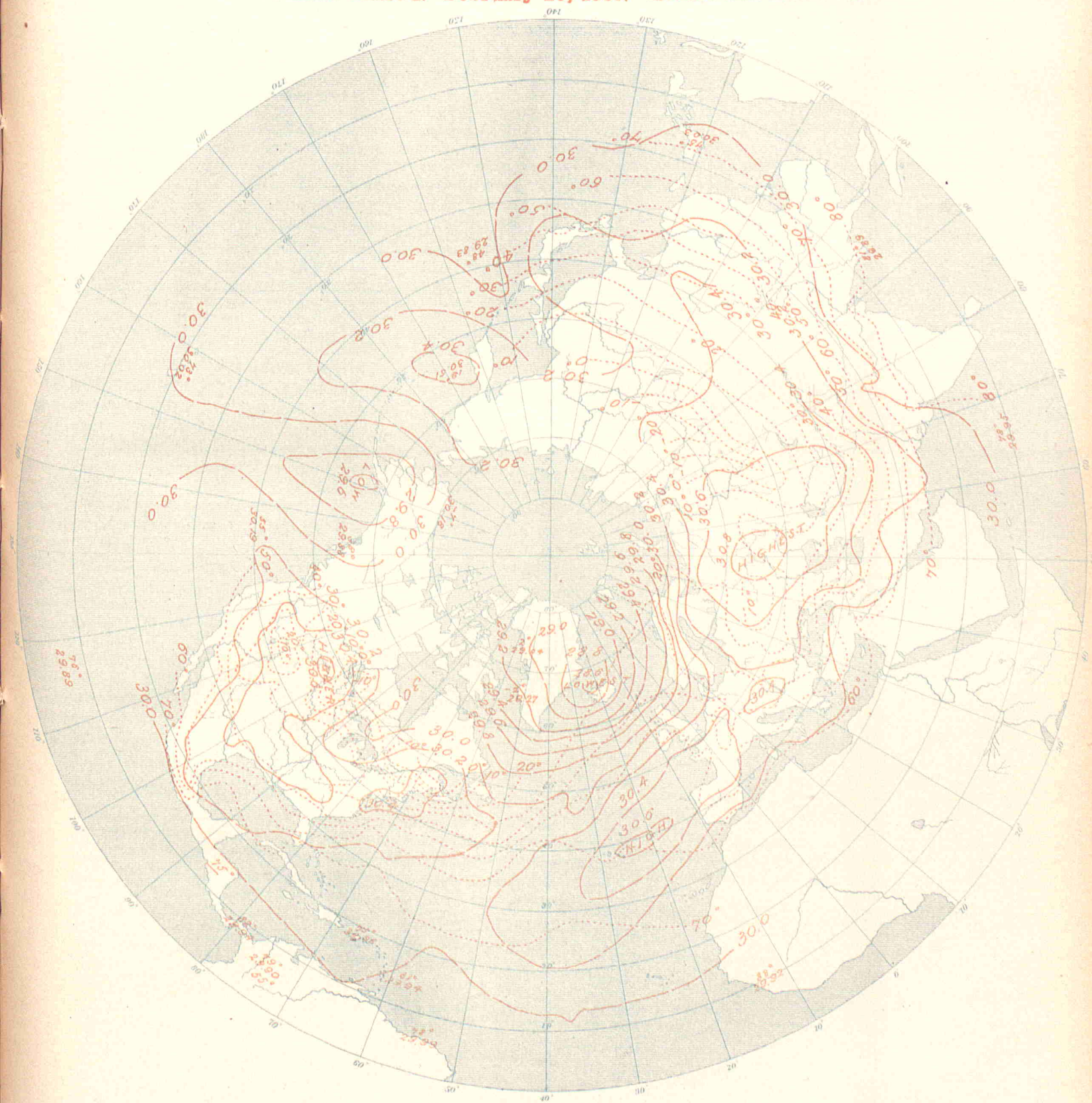
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level. Inch.	Barometer reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Sea-swell. Character.	Sea-swell. Direction from	Weather.
District No 1—North Atlantic.																		
H. M. S. Condor, N. 34° 38′ E. 20° 16′	30.32	770.1	59	15.0	76	n.	.....	.....	3	.....	4	nne.	.....	.....	.....	3	n	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.14	765.5	64	17.8	89	nne.	.....	.....	3-4	.....	7	nne.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Dido, N. 24° 40′, W. 67° 48′	30.16	766.1	71	21.7	.....	ne.	.....	.....	2	.....	3	ne.	.....	.....	.....	3	n.	d. clouds.
H. M. S. Fawn, N. 33° 30′, W. 31° 37′	30.43	772.9	63.5	17.5	70	e.	.....	.....	3-4	.....	9	ene.	.....	.....	.....	3	ene.	d. clouds.
H. M. S. Monarch, Port Said, Egypt	30.03	762.7	65	18.3	83	sw	.....	.....	2	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Minotaur, Vigo Bay, Spain	30.43	772.9	56	13.3	62	ene.	.....	.....	1	.....	3	ne.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Tyne, N 12° 26′, W 38° 14′	30.00	762.0	75	23.9	81	e.	.....	.....	4	.....	6	nne.	.....	.....	.....	2	ene.	d. clouds.
H. M. Frigate Vanadis, N. 36° 36′, E. 14° 32′	30.29	769.4	60.1	15.6	61	sw.	.....	.....	1	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	30.39	771.9	15	— 9.4	?	calm	0	0	.....	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Alliance, Havana, Cuba, W. I.	30.14	765.5	71	21.7	95	s.	.....	.....	0-1	.....	2	.....	.....	0	0	sm'h	.....	clear.
U. S. S. Kearsarge, Cartagena, U. S. C.	29.84	*757.9	75	23.9	85	ne.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	hazy.
U. S. S. Lancaster, Southampton, Eng.	30.30	769.6	49	9.4	100	wsw.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
U. S. S. Nipsic, N. 36° 22′ W 74° 12′	30.39	771.9	44	6.7	60	ne.	.....	.....	5	.....	2	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. Portsmouth, N. 13° 57′, W. 60° 37′	29.96	761.0	73	22.8	95	ne	.....	.....	3	.....	8	e.	.....	.....	.....	long	e.	cloudy.
U. S. S. Powhattan, N. 40° 22′, W. 68° 40′	30.41	772.4	34	1.1	61	nnw.	.....	.....	3	.....	2	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. St. Louis, League Island, Pa.	30.40	772.1	27	— 2.8	?	ene.	4	1.8	.....	.....	5	.....	.....	0	0	.....	.....	fair.
U. S. S. Swatara, Hampton Roads, Va*	30.29	769.4	39	3.9	81	nne.	.....	.....	1*	.....	2	.....	nne.	.....	.....	.....	.....	fair.
U. S. S. Tennessee, Aspinwall, Panama*	30.04	763.0	82	27.8	74	nne.	20	8.9	.....	.....	2	.....	nne.	inap.	inap.	med.	ne.	fair.
U. S. S. Vandalia, San Domingo, San Domingo*	30.05	763.3	69	20.6	95	n.	.....	.....	2	.....	5	.....	n.	.....	.....	.....	.....	fair.
U. S. S. Yantic, N. 24° 00′, W. 94° 35′	30.34	770.6	70	21.1	95	n.	.....	.....	4	.....	8	.....	n.	.....	.....	mod.	ne.	cloudy.
S. S Illinois, Queenstown, Ireland	30.27	768.8	54	12.2	93	nw.	.....	.....	2	.....	8	.....	nw.	.....	.....	sm'h	w.	fine.
S. S. Lord Clive, N. 48° 20′, W. 35° 00′	.....	.....	.....	.....	.....	n.	.....	.....	4	.....	10	.....	wnw.	1 h'r	1 h'r	cross	sw.; n	cloudy.
S. S. Lord Gough, N. 53° 02′, W. 4° 57′	30.15	765.8	51	10.6	.....	w.	.....	.....	3	.....	8	.....	w.	.....	.....	sm'h	.....	cloudy.
S. S. Ohio, N. 42° 0c′, W. 55° 19′†	30.12	765.0	.....	.....	.....	nw.	.....	.....	4	.....	5?	.....	wnw.	.....	.....	light	nw.	clear.?
S. S. Pennsylvania, N. 49° 07′, W. 34° 36′†	29.94	760.5	46	7 8	100	nne.	.....	.....	5	.....	10	.....	.....	9 h'r	9 h'r	mod.	nnw.	overcast.
S. S. Nova Scotian, N. 43° 51′, W. 58° 42′	30.39	771.9	25	— 3.9	.....	nw.	.....	.....	2	.....	2	.....	nw.	.....	.....	sm'h	.....	clear.
S. S. Jason, N. 47° 33′ W. 34° 23′	.....	.....	51.8	11.0	.....	n.	.....	.....	5	.....	8 n	.....	.....	.....	.....	5	n.	gloomy.
S. S. Alvo, N. 21° 41′, W. 73° 56′	30.09	764.3	71	21.7	.....	ese.	.....	.....	5	.....	10	.....	e.	2 h'r	2 h'r	short	ese.	squally.
S. S. Alene, N. 29° 47′, W 74° 00′ *†	30.16	766.1	.....	.....	.....	s.	.....	.....	3	.....	0	.....	.....	4 h'r	4 h'r	.....	n.	fine
S. S. Ailsa, Colon, U. S. C. †	30.02	762.5	78	25.6	86	ne.	.....	.....	4	.....	5	.....	ne.	0	0	mod.	ne.	½ covered.
S. S. Assyria, N. 36° 44′, W. 69° 45′	30.38	771.6	55	12.8	87	nnw.	.....	.....	4	.....	2	.....	nnw.	.....	.....	sm'h	.....	clear.
S. S. Bolivia, N. 54° 54′, W. 10° 59′	30.03	762.7	52	11.1	.....	wsw.	.....	.....	6	.....	10	.....	wsw.	rain	rain	long	wsw.	covered.
S. S. Dorian, N. 42° 29′, W. 62° 18′	30.35	770.9	34	1.1	.....	nw.	.....	.....	*3	.....	4	.....	.....	.....	.....	sm'h	.....	fine.
S. S. Landaff City, N. 41° 56′, W. 61° 40′ †	30.32	770.1	34	1.1	.....	n.	.....	.....	4	.....	8?	.....	n.	.....	.....	sm'h	.....	clear?
S. S. Bothnia, N. 50° 27′ W. 21° 20′	30.18	766.6	52	11.1	100	sw.	.....	.....	5	.....	* 10	.....	.....	12 h'r	12 h'r	.....	w.	overcast.
S. S. Gallia, N. 48° 53′, W. 29° 52′	30.00	762.0	55	12.8	93	sw.	.....	.....	6	.....	10	.....	w	mist	mist	mod.	wnw.	misty.
S. S. Marathon, N. 36° 56′ E. 1° 36′	30.30	769.6	57	13.9	.....	nne.	.....	.....	4	.....	4	.....	ne.	o	o	sll't	ne.	fine.
S. S. Canada, N. 49° 14′, W. 22° 40′	.....	.....	50.0	10	.....	sw.	.....	.....	5	ck	.....	sw.	.....	.....	.....	hv'y	nw.	sprinkling.
S. S. Pereire, N. 40° 36′, W. 70° 55 ′†	30.37	771.3	32.0	0	.....	n.	.....	.....	3	.....	5	.....	w.	o	o	.....	.....	cloudy.
S. S. Wyoming, N. 44° 00′, W. 51° 45′	.....	.....	27	— 2.8	.....	var.	.....	.....	5	.....	6	.....	sw.	o	o	long	sw.	fair.
S. S. Bohemia, N. 42° 13′ W. 58° 42′	.....	.....	.....	.....	.....	nw.	.....	.....	4-5	.....	7 k	.....	w.	2 h'r	2 h'r	mod.	nw.	
S. S. Vandalia, N. 53° 24′, W. 28° 50′	29.97	701.2	41.9	5.5	97	w.	.....	.....	6	.....	10	.....	w.	.....	.....	6	w.	cloudy.
S. S. City of Berlin, N. 42° 09′, W. 54° 30′	30.29	769.4	36	2.2	70	n.	.....	.....	3	.....	8	.....	nw.	o	o	.....	.....	cloudy.
S. S. Bulgarian, N. 43° 00′, W. 65° 27′ *	30.41	772.4	.....	.....	.....	nw.	.....	.....	2	.....	0	.....	.....	1 h'r	1 h'r	.....	.....	clear.
S. S. Archimedes, N. 32° 20′, W. 14° 56′	.....	.....	.....	.....	.....	nne.	.....	.....	6	.....	4	.....	ne	1 h'r	1 h'r	h'vy	ne.	fair
S. S. Colorado, N. 26° 50′, W. 88° 25′ †	30.20	767.1	70	21.1	.....	n.	.....	.....	6	.....	10	.....	ene.	o	o	high	ne.	cloudy.
S. S. San Marcos, N. 34° 00′, W. 77° 30′	30.35	770.9	51	10.6	.....	nne.	.....	.....	4	.....	1	.....	n.	o	o	sm'h	.....	fine.
S. S. Chalmette, Algiers, La †	30.33	770.4	47	8.3	.....	n.	.....	.....	5	.....	0	.....	.....	o	o	sm'h	se.	clear.
S. S. New York, N. 24° 20′, W 82° 30′ †	30.23	767.8	76	24.4	.....	ene.	.....	.....	4	.....	2	.....	e.	o	o	sm'h	.....	clear.
S. S. Alleghany, Norfolk, Va †	30.40	772.1	40	4.4	.....	calm	.....	.....	0	.....	0	.....	.....	o	o	.....	.....	clear.
S. S. Archimede, New York, N. Y †	30.32	770.1	48	8.9	.....	n.	.....	.....	3	.....	3	.....	.....	o	o	sm'h	n.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.			Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	o–10	o–10	o–10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. City of Merida, N. 20° 20′, W. 95° 49′.†	30.27	768.8	79	26.1		nw.			4		10		nw.	3 h'r	3 h'r	cross	nw.	cloudy.
S. S. City of Washington, N. 22° 05′ W. 87° 35′ †	30.23	767.8	80	26.7		e.			3		2		ene.	o	o	light	ene.	fine
S. S. Denmark, N. 48° 48′, W 28° 32′†	30.02	762.5	53	11.7		sw.			6		10		sw.	light	light	r'gh	wsw.	misty.
S. S. England N. 42° 20′, W. 61° 00′	30.28	769.1				wnw.			5		10		wnw.	sq'lls	sq'lls	sm'h		squally.
S. S. Erin, N. 43° 11′, W. 46° 51′	30.06	763.5	37	2.8		n.			7		10		n.	24 h'r	24 h'r	r'gh	nne.	overcast.
S. S. Helvetia, N. 48° 59′ W. 35° 00′	29.86	758.4	44	6.7		nnw.			1		10		w.	9 h'r	9 h'r	long	nw.	overcast.
S. S. The Queen, N. 44° 10′, W. 54° 36′	30.23	767.8	27	— 2.8		wsw.			4		5?		wsw.	o	o	sm'h		clear.?
S. S. Braunschweig, Weser Light, German	30.22	767.6	38.0	3.3	100	s.			3		10		sw.	o	o	light		foggy.
S. S. Donau, N. 40° 55′, W. 66° 37′	30.41	772.4				nne.			1–2		5		w.	1 h'r	1 h'r	sm'h	w.	fine.
S. S. Elbe, N. 42° 45′, W. 53° 05′	30.35	770.9	29	— 1.7		s.			3–4		7		se.	o	o	sm'h	se.	cloudy.
S. S. Hermann, N. 39° 28′, W. 63° 34′	30.35	770.9	46.4	8.0	65	nne.			5		8		nne.	1 h'r	1 h'r	4	nne.	cloudy.
S. S. Weser, N. 47° 54′, W. 34° 08′	30.01	762.2				sw.			3		10?		sw.	8 h'r	8 h'r	long	sw.	clear?
S. S. Muriel, off Tobago, Wind ward Islands, W. I.*	29.96	761.0	79	26.1		ne.			3		0					long	ene.	clear.
S. S. Belgenland, Antwerp, Belgium *†	30.35	770.9	46	7.8	92	sw.			5		0		sw.	½ h'r	½ h'r			fair.
S. S. Nederland, N. 41° 36′ W. 65° 05′			34	1.1	90	nnw.			2		8		w	2 h'r	2 h'r	sm'h	wsw.	cloudy.
S. S. Rhynland, N. 46° 30′, W. 41° 30′			25	— 3.9	100	nnw.			6		9		w.	2 h'r	2 h'r	long	wnw.	rainy.
S. S. Pennland, N. 49° 52′ W. 15° 43′	30.33	770.4	50	10.0	86	wsw.			3		5		n.	o	o			fair
S. S. Switzerland, N. 49° 43′, W. 10° 22′†	30.45	773.4				w.			2		10		w.	o	o	long	w.	cloudy.
S. S. Wuesland, N. 42° 26′, W. 57° 48′	30.33	770.4	36	2.2		nnw.			2		7		e.	snow	snow	mod.	n.	fair.
S. S Zeeland, N. 49° 00′, W. 26° 40′*†	30.14	765.5	50	10.0		sw.			6		l.z.		sw.	4 h'r	4 h'r	high	wsw.	dense haze.
S. S. P. Caland, N. 43° 00′, W. 55° 20′	30.28	769.1	35.6	2.0	82	w.			3		4		nw.					fair.
S. S. Rotterdam, N. 48° 25′, W. 24° 58′*	30.24	768.0	53.6	12.0	94	nnw.			3		10		nnw.			5	nw.	hazy.
S. S. Schiedam, N 49° 41′ W. 10° 17′	30.34	770.6	53.8	12.1		wsw.			3		10		nw.			long	w.	cloudy.
S. S. W. A. Scholten, Rotterdam, Nethlands*	30.24	768.1	43.8	6.6	88	w.			5		7			o	o			
S. S. Zaandam, N. 46° 00′, W. 44° 10′	30.19	766.8	51.4?	10.8?	86	ne.			5				nw.	o	o			
S. S. Caracas, La Guayra, Venezuela†	30.02	762.5	74	23.3	81	calm			2	2 c	o	w.		sh'rs	sh'rs			clear.
S. S. Claudius, N. 18° 35′, W. 78° 20′†	30.11	764.8	77.6	25.3	73	ene.			0		0			o	o	mod.	nne.	fine.
S. S. State of Florida, N. 48° 56′, W. 36° 15′	29.80	758.4	42	5.6		nw.			4		6		ene.	1 h'r	1 h'r	h'vy	ene.	rainy.
S. S. Lepanto, N 47° 43′, W. 6° 00′.			52	11.1		sw.			2		10		ne.	22 h'r	22 h'r	mod.	n.	cloudy.
S. S. Marengo, N. 42° 21′, W. 53° 25′†	30.20	767.1				ene.			5		8		w.	o	o	mod.	w.	overcast.
S. S. Salerno, Hull, Eng†	30.05	763.3	42	5.6		sw.			3		4		ene.	o	o	sm'h	e.	squally.
S. S. Toronto, N. 48° 56′, W. 28° 58′ *	30.11	764.8	53	11.7		nw.			5		10		sw.	3 h'r	3 h'r	r'gh	se.	raining.
S. S. Lake Huron, N. 40° 15′, W. 69° 19′			32	0.0		ene.			6		10		ssw.	6 h'r	6 h'r	slt.	sw.	dense haze.
S. S. Olbers, N. 28° 37′, W. 18° 21′*†	29.95	760.7	62	16.7		ne.			1		0			o	o	sm'h		clear.
S. S. Piantyn, N. 41° 52′, W. 55° 59′									6		7		ne.	13 h'r	13 h'r	h'vy	ne.	showery.
S. S. Catherine Whiting, Providence, R. I	30.43	772.9	58	14.4		n.			3		2		n.	o	o	sm'h	nw.	
S. S. Norman, N. 42° 23′, W. 71° 05′*†	30.38	771.6				n.			1		10			o	o			
S. S. Saxon, Philadelphia, Pa†	30.39	771.9				ene.			5				n.	o	o			clear.
S. S. Adriatic, N. 45° 59′, W. 39° 24′ †..	30.04	763.0	48	8.9		ne.			6		2							fine.
S. S. Republic. N. 45° 46′, W. 42° 11′†	30.10	764.5	48	8.9	92	ne.			5		10			18 h'r	18 h'r	mod.	nne.	drizzling.
S. S. Iowa, N. 46° 17′, W. 45° 17′*†	30.27	768.8	30	— 1.1		nw.			6		10		ne.	10 h'r	10 h'r	4	var.	drizzling.
S. S. Auckland, N. 12° 39′, W. 36° 22′	30.00	762.0	74	23.3	81	ne.			3		2		nw.	5 h'r	5 h'r	mod.	n.	clear.
S. S. Chamois, N. 20° 39′, W. 55° 33′	29.99	761.7	75.5	24.2	68	ne.			4		4							blue sky.
Bk. Commewyne, N. 41° 17′, W. 18° 41′*	30.58	776.7	53.4	11.9	74	nne.			3		5							showery.
S S. City of Agra, N. 37° 48′, W. 40° 10′	30.31	769.9	66.2	19.0	84	s.			4		10							d clouds.
S. S. Ptolmey, N. 20° 05′, W. 57° 45′	30.00	762.0	75.2	24.0	90	ne.			5		9							d. clouds.
Bk. Abbie Clifford, N. 25° 43′ W 79° 40′†	30.19	766.8	74	23.3		ene.			6		8							squally.
Bk. Aquidneck, N. 24° 37′, W. 40° 10′ *†	30.30	769.6				se.			2		2		e.	o	o	mod.	n.	fine.
Bg. Aleira, Maracaybo, Venezula, S. A	29.94	760.5	80	26.7		ne.			2				se.	o	o	h'vy	se.	hazy.
Schr. Anna A. Holton, Tampico Mexico†	30.25	768.3	62	16.7		nnw.			3		6?		ne.	o	o			clear.?
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.12	765.0	80	26.7		ne.			4		10		n.	1 h'r	1 h'r	sm'h		drizzling.
Schr. Anna Thormann, N. 27° 08′, W. 37° 58′*	30.30	769.5	69.8	21.0	73	e.			4		2		ne.	o	o			clear.
Bk. Aureola, Swansea, Wales*†	30.23	767.8	62	16.7		wsw.			6		4 kn		e.	o	o	cross	var.	misty.
Bk. Achille F, Queenstown, Irelandf	30.20	768.6	50	10.0	93	wsw.			3		10		wsw.	6 h'r	6 h'r			cloudy.
Bg. Annie R. Storer, Barbadoes, W. I.*†	29.96	761.0				ene.			4		6		sw.	o	o	sm'h		
S. S. Burswell, Queenstown, Ireland*†	30.22	767.6	65	18.3		wsw.			3		2		ne.	o	o	sm'h		fair.
Bk. Bare, N. 1° 07′, W. 26° 39′			84	28.9		sse.			2		10		wsw.	5 h'r	5 h'r	sm'h		misty.
Bk. Pilgrim, N. 24° 20′, W. 41° 00′						ese			1		3		sse.	1 h'r	1 h'r	sm'h	sse.	fair.
Bg. Clara M. Goodrich, N. 41° 28′, W. 69° 15′						e.			6		10		se.	2 h'r	2 h'r	mod.	se	cloudy.
Bk. Champion, N. 49° 50′, W. 5° 40′			58	14.4		sw.			3		2		w.	2 h'r	2 h'r	mod.	n.	threatening.
Bkt. C. S. Bushnell, Alicante, Spain	30.13	765.3				n.			4		10		nne.	14 h'r	14 h'r	sm'h	wnw.	drizzling.
S. Cornelius, N. 50° 14′, W. 16° 42′†	30.21	767.3	52.7	11.5		sw.			5		8		n.	o	o	sm'h		raining.
Schr. C. R. Flint, N. 37° 54′, W. 71° 50′*†	30.39	771.9	43	6.1		nne.			6		10			4 h'r	4 h'r	long	w.	drizzling.
Bk. Commerce, Cadiz, Spain †	30.09	764.3	58	14.4		ne.			2		2		n.	o	o	mod.	ne.	fair.
S. S. Canonbury, N. 32° 24′, W. 67° 50′*†	30.24	768.1				ne.			6		2		ne.	o	o			fine.
Bk. Chas. Stewart, N. 16° 10′, W. 40° 14′ †	30.14	765.5	76	24.4		e.			6		7		n.	2 h'r	2 h'r	h'vy	ne.	squally.
S. S. D. J. Foley, N. 13° 39′, W. 78° 19′*†	29.98	761.5	80	26.7	95	ne.			5		5		se.	o	o	mod.	e.	hazy.
Schr. Edith R. Seward, San Domingo, Hayti, W. I†	30.00	762.0	74	23.3		n.			4		2			o	o	long	ene.	fine.
S. E. J. Spicer, N. 39° 23′, W. 44° 42′	30.12	765.0	65	18.3	100	w.			3		4		nne.	½ hr	½ h'r	r'gh	ese.	clear.
Bk. E. D. Bickelow, N. 34° 27′, W. 39° 02′ *†	30.25	768.3				sse.			4		10		w.	8 h'r	8 h'r	mod.	nw.	raining.
Schr. F. E. McDonald, N. 30° 20′ W., 69° 24′†	30.18	766.6	70	21.1		ssw.			5		2		sse.	o	o	mod.	sse.	hazy.
S. S. Foscolio, N. 36° 22′, W. 7° 41′†	30.10	764.5							5		2		ssw.	o	o	1'gh	nne.	fine.
S. Festina Lente, N. 56° 32′, W. 21° 20′	29.62	752.3	41	5.0		sw.			1		5		e.	o	o	r'gh	e.	clear.
Bg. Gipsy Queen, Cardenas, Cuba, W. I			76	24.4		ese.			8		7		wsw.	4 h'r	4 h'r	h'vy	wsw.	
Bk. Galeon, Cardiff Roads, Eng			49	9.4		wsw.			4		0							clear.
S. Hedwig, N. 54° 49′, E 4° 35′	30.09	764.2	42.3	5.7	88	sw.			4		10							
Schr. Hattie Weston, Mayaro, Trinidad, W. I.*†	30.02	762.5	80	26.7		ene.			6		9		sw.			2	sw.	fine.
Bk. Hattie G. McFarland, Pascagoula, Miss*†	30.39	771.9	47	8.3		nne.			3		2		ene.	o	o	mod.	ene.	clear.
Bk. Horace Scudder, N. 10° 30′, W. 37° 20′*†	30.00	762.0	76	24.4		e.			4		2		nne.	o	o			fair.
Schr. Isabel Alberto, N. 28° 15′, W. 74° 24′†	30.10	764.5				sw.			4		10		e.	o	o	long	ene.	cloudy.
S. S. J. W. Wilson, Tanquijo Reef, Mexico*†	30.25	768.3	60	15.6		nw.			2		3		nw.	light	light	high	n.	fair.
Schr. John L. Thomas, N. 34° 40′, W. 14° 30′*†	30.30	769.6				nne.			4		10		n.	6 h'r	6 h'r	h'vy	n.	overcast.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe*†	30.06	763.5				ene.			6		9		ese.	2 h'r	2 h'r	h'vy	var.	cloudy.
Bg. Lillian, N. 31° 12′, W. 70° 40′†	29.97	761.2	68	20.0		e.			1		1		ene.	o	o			clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3				calm			7		10		e.	o	o	r'gh	var.	threatening.
S. S. Madrid, N. 39° 10′ W. 9° 32′*†	30.38	771.6	54	12.2	62	nne.			0		4			o	o			fine.
Bk. Mary A. Troop, Sharpness Point, Eng*†	30.20	767.1				w.			6		0			o	o	mod.	nw.	clear.
Bkt. Myrtle, St. Thomas, W. I						ene.			3		5		nw.	8 h'r	8 h'r			sprinkling.
S. M. P. Grace. N. 40° 27′, W. 37° 30′ *	30.23	767.8	62	16.7		sse.			6		1		ene.	o	o			fair.
S. S. Mendoza, N. 25° 30′, W. 44° 37′*†	30.30	769.6				sse.			4		3		ssw.	o	o	sm'h	ese.	hazy.
Bkt. Norena, Matanzas, Cuba, W. I*†	30.22	767.6				calm			6		9		sse.	6 h'r	6 h'r	r'gh		cloudy.
Bk. Orpheus, N. 45° 56′ W. 10° 30′						wsw.			0		1		ene.	o	o			fine.
Bk. Ottawa, N. 36° 20′, W. 4° 25′ *	30.13	765.3	52	11.1		e.			2		10 k		nnw.			sm'h		fair.
Bk. Reindeer, N. 24° 54′, W. 70° 07′ *..	30.14	765.5	62	16.7		ne.			4		6		e.	½ h'r	½ h'r	sm'h		cloudy.
S. Rudolph, N. 23° 37′, W. 47° 31′			70.0	21.1		ssw.			3		1		ne.			long	ene	
Bk. Rebus, N. 45° 37′, W. 10° 15′*	30.37	771.4	52	11.1		var.			2		4		sw.	1 h'r	1 h'r	mod.	e.	fair.
Bk. Sunbeam, N. 25° 33′, W. 28° 15′	30.22	767.6	70	21.1	75	ne.			2		1		n.	o	o	long	w.	clear.
Bk. Send, N. 35° 17′, W. 73° 30′ *†	30.33	770.4	62	16.7		nne.			6		8		ene.	o	o	mod.	ene.	cloudy.
Bk. Usko. N. 38° 55′, W. 18° 06′*†	30.02	777.7				nne.			5		8		ne.	driz'l	driz'l	mod.	n.	cloudy.
S. Vincenzo Accame, N. 37° 55′ W. 41° 16′*†	30.35	771.0	66.2	19		sw.			3		4		ne.	1 h'r	1 h'r	long	ne.	fair.
Schr. Viola Reppard, N. 33° 06′ W. 77° 40′ †	30.23	767.8	68?	20.0?		nne.			4		9		sw.	o	o	sm'h	sse.	covered.
Schr. Wm. Wiler, N. 17° 11′ W. 63° 30′*	29.96	761.0				ne.			4		3		nne.	4 h'r	4 h'r	h'vy	ne.	fair.
S. S. Wm. Woodbury, N. 59° 18′, W. 14° 16′						ne.			6		5		ne.	o	o	mod.	ne.	fine.
S. S. Colon, Aspinwall, Panama†	29.93	760.2	40	4.4		sw.			7		10		sw.			high	sw.	cloudy.
			78	25.6		ne.			4		9		ne.	o	o	mod.	var.	cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 2—South Atlantic.																		
H. M. S. Heroine, Magellan strait, Patagonia	29.51	749.5	54	12.2	87	nw.			3		4	wnw.				sm'h		d. clouds.
H. M. S. Starling, S. 8° 45′ E. 13° 17′	29.76	755.9	82.4	28.0	91	wsw.			1		1	ssw.						blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay*	29.88	758.9	69	20.6	79	se.	8	3.6			5		s.	0	0			fair.
U. S. S. Galena, Colonia, Uruguay*	29.92	760.0	67	19.4	7	s.			3		5		sse.			mod	s.	fair.
S. S. Grecian, Buenos Ayres, La Plata*	29.95	760.7	65	18.3	89	sse.			2		7		sse.	0	0			cloudy.
S. S. Hevelius, S. 27° —′, W. 43° —′†	29.94	760.5	79	26.1		n.			6		10		nw.	6 h'r	6 h'r			cloudy.
S. S. Caldew, S. 7° 17′, W. 15° 28′	29.96	761.0	80	26.7	78	se.			4		3							d. clouds.
Bk. May Hulse, S. 58° 57′ W. 66° 41′	29.38	746.2	42.5	5.8	87	n.			3		10							foggy.
Bk. Ceres, S. 8° 01′, W. 32° 24′*	29.94	760.5	82.0	27.8	78	se.			4		8		se.	inap.	inap.	sm'h	se.	cloudy.
S. Armenia, S. 0° 18′, W 30° 50′*	29.84	757.9	81	27.2	87	e.			2		4		e.	0	0	sm'h	se.	hazy.
Bk. Essex, S. 31° 01′, E. 7° 46′*†	30.04	763.0	72.0	22.2		sse.			1		8		sse.	0	0	mod.	sse.	fine.
Bk. E. L. Pettingill, S. 22° 50′, W. 27° 31′*†	30.10	764.5	84	28.9		nne.			3		2		ne.	light	light	sm'h		
S. E. B. Sutton, S. 30° 05′, W. 47° 32†	29.88	758.9	75	23.9	81	nw.			1		1		nw.	0	0	mod	sw.	clear.
S. Grecian, S. 30° 18′, W. 26° 14′†	30.13	765.3	81	27.2	83	nne.			4		5		var.	0	0	long	s.	fair.
S. Sovereign of the Seas, S. 52° 45′, W. 55° 36′*†	30.24	768.1	48	8.9	92	nnw.			3		5		nnw.			long	sw.	fair.
S. Titan, S. 37° 19′, W. 56° 15′*†	29.80	756.9	68	20.0	95	se.			3		3		se.	1 h'r	1 h'r	long	se.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay†	29.96	761.0	69	20.6		s.			4		5		s.	½ h'r	½ h'r			fair.
District No. 3—North Pacific.																		
S. S. Mexico, N. 23° 01′ W. 108° 19′†	30.09	764.3	64	17.8	68	nnw.			2		8		nw.			mod.	nw.	fair.
S. S. Belgic, N. 36° 24′, E. 153° 08′*†	29.73	755.1	48	8.9	78	nw.			7		5		nw.	0	0	h'vy	nnw.	fair.
S. S. Coptic, N. 38° 17′ W. 168° 50′	30.18	766.6	47.5	8.6	48	w.			2		8		w.	sh'rs	shr's	sli't	w.	cloudy.
S. S. Gaelic, N. 40° 04′, W. 134° 04′	30.19	766.8	55	12.8	93	s.			4		10			6 h'r	6 h'r		wsw.	overcast.
S. S. Oceanic, Yokohama, Japan *	30.15	765.8	47	8.3	70	ne.			4		8		s.					cloudy.
S. S Oregon, N. 46° 13′, W. 124° 08′ †	30.24	768.1	46	7.8	92	ese.			1							light	sw.	misty.
S. S. Willamette, Seattle, W. T †	30.31	769.9	48	8.9	92	s.			1		10		sse.	0.94	23.9			rain & fog.
S. S. Ancon, N. 34° 41′, W. 120° 42′†	29.96	761.0	52	11.1	86	nnw.			2		8		sw.					cloudy.
S. S. G. W. Elder, Port Townsend, Wash. Ter †	30.27	768.8	45	7.2	84	var.			2		10			light	light	sm'h		overcast.
S. S. State of California, San Francisco, Cal†	30.08	764.0	47	8.3	85	calm			0		0							clear.
S. S. City of New York, N. 25° 00, W. 150° 57′†	29.99	761.7	74	23.3	72	sse.			4		10		sse.	1 h'r	1 h'r	h'vy	nw.	squally.
S. S. City of Pekin, N. 22° 13′, E. 114° 55′†	30.06	763.5	63	17.2	100	ne.			4		10		ne.			small	ne.	overcast.
S. S. City of Rio de Janeiro, Acapulco, Mexico			79	26.1	70	sw.			1		0			0	0			clear.
S. S. Colima, N. 7° 45′, W. 79° 47′†	29.95	760.7	80	26.7	96	nne.			4		2		ne.	0	0	mod.	n.	clear.
S. S. San José, N. 23° 11′, W. 106° 22′†	30.04	763.0	64	17.8	68	nne.			2		2		ne.	0	0	long	nnw.	clear.
S. S. Zealandia, N. 36° 16′, W. 131° 10′	30.10	764.5	54	12.2	80	w.			2		0					sm'h		clear.
H. M. S. Curacoa, Kobe, Japan	30.15	765.8	45.5	7.5	69	calm			0		0							blue sky.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.93	760.2	68	20.0		calm			0		5							d. clouds.
H. M. S. Swiftsure, N. 7° 54′, W. 119° 32′	29.88	758.9	77	25.0	100	ne.			3		4	ne.						d. clouds.
U. S. Naval Hospital, Yokohama, Japan*	30.32	770.1	43	6.1	51	n.			1		10		w.	0	0			cloudy.
U. S. S. Independence, Mare Island, Cal	30.09	764.3	44	6.7	92	calm			0		0			0	0			clear.
U. S. S. Lackawanna, Honolulu Sandwich, Islands*	29.92	760.0	73	22.8	85	nne.			1		2		ne.					fair.
U. S. S. Monocacy, Hong Kong, China	30.06	763.5	64	17.8	94	e.			1		10		calm					misty.
U. S. S. Palos, Tientsin, China*	30.26	769.1	27	— 2.8	100	calm			0		10		calm					cloudy.
U. S. S. Ranger, Mare Id, Cal	30.10	764.5	46	7.8	84	calm			0		0			0	0			clear.
U. S. S. Richmond, Hong-Kong, China *	29.99	761.7	64	17.8	94	e			1–2		10		e.	0	0			cloudy.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.91	759.7	71	21.7	80	nne.			1		2		ne.			sm'h		clear.
S. S. Scotia, Hong Kong, China	30.04	763.0	63.7	17.6	89	ese.			3		7							d. clouds.
S. Henry Failing, Wilmington, Cal†	30.20	767.1	59	15.0		var.			1		1		ne.	0	0	sm'h		fine.
S. St. Francis. N. 3° 45′, W. 122° 30′†	29.89	759.2	76	24.4		ese.			2		9		n.	0	0	h'vy	nne.	squally.
Tamega, Macao, China	30.09	764.2	67.1	19.5	87	ese.			1		8		s;w.	0	0			d. clouds.
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.91	759.7	68	20.0	95	sse.			1		6	ese.				2		foggy.
H. M. S. Kingfisher, S. 10° 06′, W. 100° 23′	29.93	760.2	75	23.9		ese.			3		7					4	se.	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	29.71	754.6	70.3	21.3	90	ene.			3		8					2	ne.	squally.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.96	759.4	62	16.7		calm			0							sm'h		d. clouds.
H. M. S. Rocket, S. 53° 10′, W. 71° 00′	29.53	750.0	51	10.6	93	calm			0									foggy.
H. M. S. Sylvia, Sandy Point, Patagonia	29.56	750.8	52	11.1	86	calm			0		10							foggy.
U. S. S. Essex, Callao, Peru	29.90	759.4	67	19.4	89	calm			0		10							foggy.
U. S. S. Iroquois, S. 35° 27′, W. 98° 10′	30.16	766.1	71	21.7	85	nw.			1		5		nw.			long	s.	fair.
U. S. S. Onward, Callao, Peru*†	30.00	762.0	66	18.9	94	s.			1		10		n					misty.
U. S. S. Pensacola. S. 27° 05′, W. 73° 14′*	29.88	758.9	66	18.9	79	sse			3		8		sse.	0	0	long	s.	cloudy.
British Merchant, S. 39° 03′, W. 139° 10′	29.88	758.9	63.4	17.4	89	wsw.			2		6							d. clouds.
Bk. Childwall, S. 23° 10′. W. 133° 08′*	29.81	757.2	74	23.3		var.					8		nw.	4 h'r	4 h'r	gentle	sw.	gloomy.
Bk. Edmund Phiney, S. 58° 22′, W. 73° 03′†	29.26	743.2	47	8.3		nnw.			7		10			0	0	high	nnw.	threatening.
Bk. Gronsvaer, Auckland, New Zealand†	29.65	753.0	74.4	23.6		ne.			6		10		ne.	8 h'r	8 h'r			misty.
Bk. Godeffroy, S. 26° 27′, W. 83° 56′*	29.95	760.7	66.0	18.9	90	sse			4		9		sse.	rain	rain	mod.	var.	light rain.
S. S. Australia, Sydney, N. S. W*	29.54	750.3	71	21.7	90	n.			1		10		n.	0	0			cloudy.
S. S City of Sydney, Sydney, N. S. W†	29.93	760.2	72	22.2	76	se.			4		10		se.					light rain.
H. M. S. Gannet, S. 2° 12′, W. 79° 51′	29.89	759.2	73	22.8	95	var.			1		10							raining.
S. George Stetson, S. 58° —′, W. 72° —′ *†	29.18	741.2	43	6.1	83	w.			3		3		sw.	0	0		wsw.	clear.
Bk. Warden Law, S. 38° 15′, W. 90° 45′ *	30.18	766.6				s.			2		2		s.	0	0	long	sw.	fair.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 6° 10′ E. 39° 11′	29.89	759.2	85	29.4		nne.			2		5		nnw.			1	nnw.	d. clouds.
H. M. S. Eclipse, N. 28° 59′ E. 56° 48′	29.99	761.7	62	16.7		wsw.			4		9							d. clouds.
H. M. S. Euryalus, Rangoon, India	29.89	759.2	81	27.2	82	calm			0		1							blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.89	759.2	82	27.8		ene.			2		4	ene.				2	ene.	d. clouds.
H. M. S. Woodlark, N. 25° 16′, E. 60° 32′	30.11	764.8	72.5	22.5	50	ese.			2		5					2	e.	d. clouds.
S. S. Galatia, N. 10° 31′, E. 65° 23′†	29.95	760.7	78	25.6	95	ne.			3		5?		ne.	0	0	mod.	ne.	cloudy.?
Bkt. Josephine, S. 34° 14′, E. 26° 14′†	29.80	756.9	84	28.9	83	nne.			2		0			0	0	sm'h		clear.
S. Sacramento. S. 45° 50′, E. 56° 30′ *†	30.21	767.3	52	11.1	93	n.			6		10		n.	0	0	mod.	n.	overcast.

International Chart I. February 20, 1883. Isobars and Isotherms.



By Order of the Secretary of War
W.B. Hazen, Chief Signal Officer
Signal Office Feb.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 21, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours	.....	.....	30.26	768.6	61.2	16.2	77	nw.	.....	.....	7	.....	0	.....	.....	0	0	clear.....	**Malaterre.**
Algiers	.....	.....	30.30	769.7	54.7	12.6	93	ne.	.....	.....	5	.....	6	.....	.....	0.091	2.3	cloudy.....	**Thève.**
La Calle	.....	.....	30.21	767.2	54.0	12.2	93	wnw.	.....	.....	6	.....	6	.....	.....	0	0	cloudy	**Fonfrède.**
Tunis	.....	.....	30.18	766.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**Jacques.**
Saida	.....	.....	30.25	768.4	54.7	12.6	80	e.	.....	.....	1	.....	1	.....	.....	0	0	very fair,....	**Pérès.**
Tebessa	.....	.....	30.30	769.6	43.2	6.2	74	nw.	.....	.....	3	.....	4	.....	.....	0	0	cloudy.....	**Dognon.**
Geriville	.....	.....	.....	.....	58.3	14.6	8	ssw.	.....	.....	3	.....	0	.....	.....	0	0	clear.....	**Forfert.**
Laghouat	.....	.....	30.29	769.4	54.1	12.3	39	nw.	.....	.....	0	.....	0	.....	.....	0	0	clear.....	**Abraham.**
Biskra	.....	.....	30.31	769.9	64.0	17.8	16	ne.	.....	.....	6	.....	0	.....	.....	0	0	clear.....	**Malau.**
Australian.																			
Melbourne, Victoria	29.91	759.7	30.00	762.0	59.4	15.2	73	se.	9	4.0	.....	.....	3	.....	.....	0	0	fine.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	30.02	762.4	30.00	777.3	42.8	6 0	57	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	**Prof. Ivan Stezir.**
Cracow, I. R Observatory	29.63	752.7	30.43	773.0	39.2	4.0	73	wsw.	1.3	0.6	.....	.....	0	.....	.....	0	0	.....	**Dr. Wierzbiski.**
Eperies	29.54	750.3	30.47	773.9	35.2	1.8	64	calm	.....	.....	0	1 cs	0	.....	.....	0	0	.....	**Julius Mikolik.**
Gratz	29.26	743.2	30.57	776.5	40.3	4.6	67	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	**Andreas Rospini.**
Hermannstadt	29.00	736.6	30.52	775.1	34.5	1.4	75	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	**Prof. A. Gottschling.**
Kremsmunster, Obs'y	29.19	741.4	30.00	777.1	40.3	4.6	62	nw.	.....	.....	3	cs	10 k	.....	.....	0.004	0.1	gloomy.....	**The Staff.**
Lemberg	29.40	746.8	30.45	773.5	30.2	— 1.0	78	sw.	.....	.....	2	.....	2	.....	.....	0.008	0.2	.....	**Dr. T. Stanecki.**
Neu Schmecks	26.92	683.7	30.43	772.9	35.2	1.8	97	e.	.....	.....	2	.....	5	.....	.....	0	0	.....	**Dr. V. von Szontagh.**
Pola	30.41	772.4	30.52	775.3	47.8	8.8	53	ene.	.....	.....	3	.....	0	.....	.....	0	0	.....	**I. R. Hydrographic Office.**
Szathmar	30.01	762.3	30.48	774.3	35.1	1.7	99	w.	.....	.....	2	.....	8	.....	.....	0.016	0.4	.....	**Joseph Midlinszky, S. J.**
Szegedin	30.24	768.0	30.53	775.5	39.6	4.2	68	w.	.....	.....	2	.....	4	.....	.....	0	0	.....	**Karl Stancel.**
Trieste	30.44	773.2	30.54	775.7	49.6	9.8	25	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	**Royal Academy.**
Vienna	29.79	756.6	30.53	775.4	45.0	7.2	50	w.	.....	.....	5	.....	4	.....	.....	0	0	.....	**I. R. Central Met. Obs'y.**
British.																			
Aberdeen	29.81	757.2	29.91	759.7	55.3	12.9	61	sw.	19	8.5	.....	.....	4	.....	.....	0.090	2.3	blue sky.....	W. Boswell
Armagh, Observatory	29.93	760 2	30.17	766.3	51.1	10.6	90	sw.	23	10.3	.....	.....	8	.....	.....	.....	.....	squally.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.20	769.4	53.3	11.8	77	sw.	22	9.8	.....	.....	8	.....	.....	.....	.....	overcast.....	John Hartnup.
Bolton, Sharples	29.72	754.9	30.26	768.6	49.6	9.8	85	ssw.	12	5.4	.....	.....	10	.....	.....	.....	.....	overcast.....	Thomas Mackereth.
Bradford, Yorkshire	29.83	757.7	30.23	767.8	51.1	10.6	84	sw.	.....	.....	3	.....	5	.....	.....	0.01	0 3	d. clouds.....	McLandsborough&Preston.
Bridgetown, Barbadoes	29.92	760.0	29.94	760.5	80.0	26.7	66	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C
Cardington	30.29	769.4	30.40	772.1	50.4	10.2	90	w.	.....	.....	1.0	.....	10	.....	.....	.....	.....	overcast.....	John McLaren.
Chatham, School M. E.	30.32	770.1	30.45	773.4	49.3	9.6	89	sw.	.....	.....	1	.....	10	.....	.....	blank	blank	gloomy.....	Corpl. G. A. Pickles.
Falmouth, Observatory	30.31	769.9	30.54	775.7	50.6	10.3	97	wsw.	.....	.....	3	.....	10	.....	.....	.....	.....	rain & fog....	The Staff.
Fort Napier, Natal	27.45	697.2	29.68	753.9	89.0	31.7	37	calm	.....	.....	0	.....	1	.....	.....	.....	.....	blue sky.....	Corpl. F. Milner, A. H. C.
Freetown	29.65	753.1	29.88	758.9	80.0	30.0	88	n.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	30.17	766.3	30.21	767.3	50	10.0	93	sw.	.....	.....	4	.....	10	.....	.....	0.01	0.3	drizzling.....	Wm. Ryan.
Gibraltar, Mediterranean	30.27	768.8	30.33	770.4	69.2	20.7	95	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.72	754.9	29.93	760.2	50.1	10.1	89	wsw.	.....	.....	6	.....	9	.....	.....	.....	.....	overcast.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.27	768.8	30.44	773.2	49.9	9.9	87	wsw.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast.....	The Staff.
Guernsey	30.20	768.6	30 57	776.5	50.5	10.3	89	wsw.	.....	.....	3	.....	3	.....	.....	blank	blank	d. clouds	A. Coltenette, F. M. S.
Kew, Observatory	30.42	772.7	30.45	773.4	50.9	10.5	84	sw.	14	6.3	.....	.....	10	.....	.....	.....	.....	overcast.....	The Staff.
Leicester, Museum	30.09	764 3	30.35	770.9	52.2	11.2	90	sw.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	30.10	764.5	30.18	766.6	60.8	16.0	95	se.	.....	.....	2	.....	7	.....	.....	0	0	d. clouds.....	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.06	763.5	30.11	764.8	72.5	22.5	99	se.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe.
Oscott, St. Mary's College	29.80	756.9	30.33	770.4	54.8	12.7	76	ssw.	.....	.....	6	.....	5	.....	.....	.....	.....	d. clouds.....	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	30.19	766.8	30.42	772.7	50.7	10.4	86	wsw.	.....	.....	5	.....	10	.....	.....	.....	.....	squally.....	The Staff.
Plymouth	30.44	773.2	30.51	774.9	50.1	10.1	98	wsw.	.....	.....	2	.....	10	.....	.....	.....	.....	misty.....	John Merrifield.
Sandwick Manse, Orkneys	29.68	753.9	29.78	756.4	43.2	6.2	90	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	drizzling..	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.36	771.1	30.43	772.9	32.6	0.3	94	n.	.....	.....	2	.....	10	.....	.....	.....	.....	misty.....	W. H. Lyne.
Sheffield	29.98	761.5	30.20	768.6	54.9	12.7	81	sw.	.....	.....	5	.....	4	.....	.....	0	0	d. clouds.....	W. F. Cooper.
Silloth Rectory	30.10	764.5	30.14	765.5	48.1	8.9	92	wsw.	.....	.....	6	.....	10	.....	.....	0.010	0.3	overcast.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.28	769.1	49.8	9.9	86	sw.	18	8.0	.....	.....	10	.....	.....	.....	.....	overcast.....	Rev. S. J. Perry.
Stratfield Turgiss	30.25	768.3	30.47	773.9	51.1	10.6	90	w.	.....	.....	3	.....	10	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	30.47	773.9	30.52	775.2	54	12.2	93	w.	.....	.....	6	.....	10	.....	.....	.....	.....	raining.....	W. Newcombe.
Valencia, Observatory	30.33	770.4	30.36	771.1	50.6	10.3	93	sw.	32	14.3	.....	.....	10	.....	.....	blank	blank	misty.....	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.81	757.2	30.20	767.1	59.4	15.2	76	se.	7.4	3.3	.....	0	7 n	.....	se.	0.244	0.2	fair.....	**Rev. Ph. Borrello.**
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	15	— 9.4	.....	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	snowing.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.80	756.9	29.85	758.2	20	— 6.7	97	se.	20	8.9	.....	.....	10 n	.....	calm	0.090	2.3	light snow..	H. J. Cundall, C. E.
Chatham, N. B*	29.69	754 1	29.70	755.9	17	— 8.3	91	se.	2	0.9	.....	.....	10 n	.....	se.	0.28	7.1	light snow...	G. A. Blair
Cornwall	29.68	753.9	29.00	759.4	6.3	—14.3	100	w.	.....	.....	1	.....	10 s	.....	.....	0.250	6.3	overcast.....	Jas. Smith, M. A.
Dalhousie	29.72	754 9	29.77	756.1	12.5	—10.8	.....	e.	.....	.....	2	.....	10 n	.....	.....	0.250	6.3	snowing.....	H. A. Johnson.
Father Point, Quebec*	29.70	754.4	29.73	755.1	9	—12.8	87	calm	0	0	.....	5 c	5 n	calm	calm	0.01	0.3	light snow...	J. McWilliams.
Fort Garry, Manitoba*	29.24	742.7	30.18	766.6	2	—16.7	76	w.	13	5.8	.....	0	0	.....	.....	0	0	clear.....	James Stewart.
Fredericton	29.57	751.1	29.04	752.8	10.6	—11.9	90	nw.	5	2.2	.....	0 cs	0	nw.	.....	.....	.....	d. clouds	**Prof. Harrison, L. L. D.**
Granton	28.96	735.6	30.17	766.3	—10.9	—23.8	91	calm	0	0	.....	0	2 s	.....	.....	0	0	blue sky.....	**Jas. Grant.**
Halifax, N. S*	29.71	754.6	29.85	758.2	29	— 1.7	90	se.	11	4.9	.....	.....	fog	.....	.....	0.160	4.1	heavy snow	A. Allison.
Hamilton	29.04	752.8	30.05	763.3	20.7	— 6.3	94	sw.	.....	.....	2	4 k	0	sw.	.....	0.200	5.1	d. clouds	**Geo. Dickson, B. A.**
Kingston, Ontario*	29 59	757.6	29.90	761.0	13	—10.6	80	w.	7	3.1	.....	.....	10 k	.....	w.	0.29	7.4	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.63	752.6	29.86	758.4	6	—14.4	91	w.	10	4.5	.....	.....	10 n	.....	.....	0.28	7.1	cloudy.....	C. H. McLeod, C. E.
Ottawa	29.03	752.6	29.90	759.4	8.8	—12.9	88	calm	.....	.....	0	.....	10 s	.....	.....	0.25	6.3	snowing.....	**A. McGill, M. A.**
Parry Sound, Ontario*	29.28	743.7	30.05	763.3	2	—16.7	66	w.	3	1.3	.....	0	2 ks	.....	w.	0.15	3.8	fair.....	Rev. R. Mosley.
Peterboro	29.29	744.0	30.11	764.8	11.7	—11.3	40	w.	.....	.....	3	c	1 s	.....	.....	0	0	blue sky.....	**J. Dixon, B. A.**
Port Dover, Ontario	29.37	746.0	30.12	765.0	18	— 7.8	100	w.	7	3.1	.....	.....	8 n	.....	w.	0.26	6.6	threatening.	H. Morgan.
Port Stanley, Ontario	29.40	748.3	30.15	765.8	21	— 6.1	67	w.	18	8.0	.....	.....	10 n	.....	w.	0.12	3.0	cloudy.....	M. Payne.
Quebec, Quebec*	29.36	745.7	29.71	754.6	13	—10.6	100	e.	.....	.....	3	.....	10 n	.....	e.	0.50	12.7	light snow...	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.40	749.7	29.90	759.4	8	—13.3	80	calm	0	0	.....	.....	9 8	.....	nw.	0.25	6.3	cloudy.....	W. H. McIntyre.
Saugeen, Ontario*	29.28	743.7	30.05	763.3	18	— 7.8	87	w.	12	5.4	.....	.....	10 s	.....	.....	0.55	14.0	heavy snow	
St. Andrews, N. B	29.57	751.1	29.62	752.3	31	— 0.6	100	sw.	8	3.6	.....	.....	10 n	.....	.....	0.24	6.1	light snow...	
St. John, N. B	29.48	748.8	29.65	753.1	30	— 1.1	100	sw.	15	6.7	.....	.....	10 n	.....	.....	0.300	7.6	light snow...	**G. Murdock, C. E.**
St. Pierre, N. F	.....	.....	30.12	765.0	21.2	— 6.0	.....	se.	.....	.....	2	.....	.....	.....	.....	0	0	.....	**The Commandant**
Stratford	28.75	730.2	30.14	765.5	13.0	—10.6	93	nw.	9	4.0	.....	.....	10 s	.....	.....	0.400	10.2	overcast....	**C. J. Macgregor, M. A.**
Sydney, C. B*	29.99	761.7	30.05	763.3	19	— 7.2	90	se.	5	2.2	.....	.....	10 n	.....	.....	0.01	0.3	light snow...	T. C. Hill, C. E.
Toronto, Ontario*	29.66	753.4	30.08	764.0	19	— 7.2	80	w.	16	7.2	.....	.....	10 ks	.....	w.	0.15	3.8	cloudy	Magnetic Observatory.
Windsor	29.67	753.6	29.77	756.1	20.0	— 3.3	94	e.	14	6.3	.....	.....	10 n	.....	.....	.....	.....	snowing.....	**Prof. W. H. Butler, M. A**
Woodstock	29.02	737.1	30.17	763.3	13.7	—10.2	82	w.	16.0	7.2	.....	3 k	0	w.	.....	0.50	12.7	fair.....	**Prof. Wolverton, M.A.**
Yarmouth, N. S*	29.65	753.1	29.72	754.9	32	0.0	92	s.	11	4.9	.....	.....	10 n	.....	.....	0.20	5.1	light snow...	**Lt. F. E. Wimett, R.N.**

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mil.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p sec	0–12	0–10	0–10	From.	From.	Inch.	Mil.		
Cape Colony.																			
Cape St. Francis Lt. House	29.66	753.4	29.69	754.1	72.0	22.2	84	wsw.	9.6	4.3		0	2 k			0	0	hazy	John Duthie.
Springbok Fontein	27.85	707.4			79	26.1	82	se.											J. T. Eustace.
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.67	626.6			24.6	— 4.1		calm			0		fg					foggy	
Tchang-kia-tchouang	30.38	771.6	30.48	774.4	30.0	— 1.1	91	se.			1		10			0	0	covered	R. P. Desurmont, S.J.
Zi-Ka-Wei, near Shanghai	30.30	769.6	30.32	770.2	37.2	2.9	80	n.	4.9	2.2			10 k		n.	0.169	4.3	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.06	763.5	30.11	764.7	41.7	5.4	94	w.	18	8			10					foggy	Oversergent Fischer.
Fanoe	30.14	765.6	30.16	766.1	40.5	4.7	96	wsw.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	29.55	750.6	29.60	751.7	— 6.2	—21.2	100	ssw.			4		10						S. Kleinschmidt.
Ivigtut, Greenland	29.60	751.9	29.62	752.4	— 4.7	—20.4		calm			0		3						
Jacobshavn, Greenland	29.37	746.1	29.42	747.3	— 4.2	—20.1		w.			2		8					snowing	
Stykkisholm, Iceland	28.75	730.3	28.80	731.4	23.4	— 4.8	88	sw.			8		10					snowing	A. O. Thorlacius.
Thorshavn	29.49	749.1	29.53	750.0	36.7	2.6	84	w.	29	13			5					sleeting	Overloerer Bergh.
Vestervig	29.96	760.9	30.05	763.2	39.7	4.3	98	sw.			4		10						Loerer Oesterbol.
Upernavik, Greenland	29.23	742 5	29.28	743.7	— 5.3	—20.7		sw.			3		10					snowing	
French.																			
Agen, Normal School	30.08	763.9	30.75	781.0	46.8	8.2	77	calm			0		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	30.10	764.6	30.65	778.6	50.7	10.4	97	sw.			1		ku	ne.	ne.	0	0		M. Nicot, Director.
Arras, Engineer School	30.39	771.8	30.65	778.5	47.5	8.6	94	w.			1	c	0			0	0		M. Fénéon, Command't.
Avignon, Normal School	30.48	774.1	30.56	776.1	49.6	9.8	46	nnw.			4		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	30.08	764.0	30.66	778.8	46.0	7.8	80	sw.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.34	770.6	30.61	777.5	50.5	10.3	72	wsw.			1		10		wsw.	0.028	0.7	covered	M. Frère Eugène Marié
Besançon, Normal School	29.69	754.0	30.70	779.7	46.0	7.8	94	sw.			1		2		ne.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	30.42	772 7	30.69	779.6	47.8	8.8	61	nne.			1		2		nne.	0.004	0.1	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	30.10	764.5	30.67	779.0	45.7	7.6	91	sw.			1		n		se.	0	0		M. Malet, Director.
Brest, Naval Observatory	30.39	771.9	30.63	778.1	53.2	11.8	93	sw.			2		9		sw.	0.126	3.2		M. de Kermaréc, Dir.
Caen, Normal School	30.48	774.1	30.59	776.1	54.3	12.4	76	ne.			1		10			0.016	0.4	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.28	769.0	30.61	777.5	45.0	7.2	90	calm			0		10			0	0	covered	M. Judot, Director.
Charleville, Normal School	30.05	763.2	30.57	776.4	43.9	6.6	85	w.			1		10			0.031	0.8	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.25	743 0	30.66	778.8	46.0	7.8	64	n.			1		5			0	0	½ cloudy	M. Allnard, Director.
Cluny, Normal School	29.79	756.7	30.68	779.2	42.8	6	77	ne.			1		6		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.74	755.5	30.64	778.3	44.2	6.8	85	sw.			1		5 8	sw.	sw.	0	0	cloudy	Dr. Goulet, Director.
Gap, Normal School	27.93	709.3	30.56	776.2	41.9	5.5	69	calm			0		0			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.34	745.3	30.50	774.6	51.4	10.8	32	nw.			2		0			0	0		M. Klun, Director.
Grenoble, Normal School	29.84	757.9	30.65	778.4	45.3	7.4	57	ssw.			1	0	0			0	0	clear	M. Ablard, Director.
Guéret	29.05	737 8	30.63	778 0	41.0	5	85	n.			1	0	0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	30.41	772.4	30.69	779.5	50.7	10.4	82	sw.			2		2		sw.	0	0	slightly cl'dy	M. Ollitrault, Director
Lescar, Normal School	30.01	762.3	30.59	777.0	51.4	10.8	44	e.			2	0	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.57	776.4	30.67	779.0	55.8	13.2	73	wsw.			1		8		w.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.57	751.1	30.68	779 2	43.7	6.5	63	n.			2	0	1 k			0	0	clear	M. André, Director.
Mans, Normal School	30.36	771.1	30.68	779.3	46.0	7.8	95	wsw.			1		10					light rain	M. Piboën, Director.
Marseille, Observatory	30.24	768.0	30.51	774.9	54.9	12.7	39	wnw.			1		0			0	0		M. Stephan, Director.
Montlouis	25.18	639.6	30.02	762.6	40.1	4.5	19	ne.	5.6	2.5			0			0	0		M. Caré for Dr. Fines.
Montpellier, Normal School	30.42?	772.7?	30.36?	771.1?	53.6	12	46	nnw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.76	755 8	30.58	776.6	43.5	6.4	82	sw.			1		n			0	0	light fog	M. Husse, Director.
Nantes, Observatory	30.53	775 5	30.69	779.6	52.5	11.4	90	sw.			1-2		10 km;n		sw.	0.020	0.5		M. Larocque, Director.
Perpignan, Observatory	30.48	774.2	30.60	777.1	54.9	12.7	29	n.	16.8	7.5			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.48	545.6			28.2	— 2.1		ne.			1		0			0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.50	749.4	30.61	777.4	47.5	8.6	57	n.			3		2	n.	n.	0	0	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.58	649.7			27.0	— 2.8	54	ne.			3		0			0.008	0.2	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	30.63	778.1	30.67	778.9	46.0	7.8	86	s.			1		10		sse.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.45	773.3	30.67	778.9	51.8	11	63	sw.			1		8		e.	0	0	very cloudy	M. Brotier, Director.
Rodez, Normal School	28.38	720.9	30.62	777.8	41.0	5	56	nw.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.58	776.7	30.63	777.9	50.7	10.4	82	wsw.			2		10		wsw.	0.028	0.7	covered	M. Mouillot.
Saint Lô					51.8	11	75	w.			1		2		w.	0.020	0.5	slightly cl'dy	M. Delaplanche, Dir.
Saint Maur, Observatory	30.46	773.6	30.62	777.8	50.4	10.2	81	wsw.			1		6		n.	0.031	0.8		M. Renou, Director.
Toulouse, Observatory	29.95	760.7	30.69	779.4	48.2	9.0	52	nnw.			1		0			0	0	clear	M. Baillaud, Director.
Tours	30.48	774.3	30.66	778.8	54.3	12.4	99	s.			1		8	w.	sw.	0.004	0.1	very cloudy	M. de Tastes.
Versailles, Observatory	30.11	764.9	30.61	777.4	50.0	10.0	86	w.			1					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.52	775.3	30.67	779.1	50.0	10.0	62	ne.	15.7	7.0			0			0	0	clear	M. Cartier, Director.
German.																			
Ansbach	29.09	738.9	30.62	777.7	38.5	3.6	80	w.			4		10	w.		0	0		Prof. Jnedt.
Bamberg	29.63	752.5	30.48	774.2	37.9	3.3	93	calm			0		10			0.051	1.3	raining	Prof. Dr. Hoh.
Berlin	30.21	767.4	30.36	771.2	39.9	4.4	96	w.			2		10			0.083	2.1	light rain	Meteorological Institute.
Breslau	29.89	759.1	30.43	772.8	37.6	3.1	74	wsw.			2		10					rain & fog	Royal University ...
Carlsruhe	30.14	765.6	30.63	777.9	43.5	6.4	69	sw.			5		10	sw.		0.008	0.2		Albert Senz.
Cassel	29.69	754.1	30.40	772.2	41.0	5.0	94	ssw.			4		8	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	30.18	766.6	30.57	776.4	40.8	4.9	96	sw.			1		10			0.157	4.0		Physical Society.
Friedrichshafen	29.16	740.7	30.66	778.8	41.9	5.5	71	s.			2		8	nne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.22	767.7	30.32	770.0	42.8	6.0	99	wsw.			4		10			0.157	4.0	foggy	E. Preller.
Kiel	30.22	767.6	30.24	768.0	42.8	6.0	99	sw.			4		10			0.201	5.1		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	30.02	762.4	30.46	773.6	39.2	4.0	93	ssw.			3		10			0.024	0.6	raining	H. Leppig, Asst.
Magdeburg	30.18	766.5	30.38	771.6	44.2	6.8	87	w.			3		10	wnw.		0.035	0.9		Dr. Assmann.
Memel	30.14	765.6	30.19	766.8	31.8	— 0.1	94	sw.			2		10					foggy	Issermann.
Munich	28.73	729.7	30.63	778.0	44.4	6.9	39	nw.			3		9	nw.		0.004	0.1		Central Station.
Neufahrwasser	30.21	767.2	30.22	767.6	38.5	3.6	88	nw.			1		10	s.		0.008	0.2		A. Lothes.
Neustadt, Palatinate	30.01	762.3	30.55	776.0	43.7	6.5	90	w.			2		10	w.		0	0		Dicknether.
Stuttgart	29.64	752.8	30.57	776.4	45.1	7.3	68	w.			1		10			0	0		Prof. Dr. Schoder.
Wustrow	30.20	767.1	30.22	767.7	37.8	3.2	98	se.			2		10			0.055	1.4	foggy	Profs. Brandes & Reimer.
Greek.																			
Athens	29.98	761.6	30.38	771.6	47.1	8.4		n.			1.0		9			0.020	0.5	light rain	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.03	762.8	30.08	764.0	79.0	26.1	30	ene.	14.0	6.3			4			0	0	d. clouds	
Deesa	29.55	750.6	30.03	762.8	77.8	25.4	7	nne.	16.0	7.2			2	wsw.		0	0	d. clouds	
Bombay	29.90	759.3	29.93	760.3	81.1	27.3	56	nnw.	23.0	10.3			0			0	0	blue sky	
Poona, Yarrowda	28.66	712.6	29.88	758.9	89.8	32.1	10	wsw.	5.0	2.2			0			0	c	blue sky	
Belgaum	27.38	695.6	29.90	759.5	81.3	27.4	21	e.	1.0	0.4			0			0	0	blue sky	
Lahore	29.34	745.4	30.12	765.0	65.6	18.7	36	n.	2.0	0.9			0			0	0	blue sky	
Roorkee	29.14	740.1	30.07	763.7	67.0	19.4	22	nw.	6.0	2.7			2	w.		0	0		
Agra	29.51	749.5	30.09	764.2	72.2	22.3	28	nw.					2		w.	0	0	d. clouds	
Nagpur	28.86	733.1	29.89	759.2	89.7	32.1	16	w.	5.0	2.2			3	w.		0	0	d. clouds	
Jubbulpore	28.61	726.8	29.98	761.4	79.1	26.2	33	ne.	10.0	4.5			3	ne.		0	0	d. clouds	
Lucknow	29.66	753.2	30.05	763.2	67.3	19.6	27	nnw.	5.0	2.2			4	nne.		0	0	d. clouds	
Allahabad	29.70	754.4	30.02	762.6	71.8	22.1	34	calm	0	0			6			0	0	d. clouds	
Patna	29.77	756.2	29.99	761.0	75.9	24.4	35	w.	3.7	1.6			5	w.	w.	0	0	d. clouds	
Hazaribagh	27.94	709 8	29.99	761.8	70.6	21.4	43	nnw	5.0	2.2			8			0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.82	757.3	29.90	759.3	89.6	32.0	33	ssw.	5.0	2.2			0			0	0	blue sky	
Calcutta, Alipore	29.88	759.0	29.90	759.6	85.0	29.4	49	nnw.	0.5	0.2			7	w.		0	0	d. clouds	
Dhubri	29.76	755.9	29.88	759.0	70.9	21.6	55	sw.	3.5	1.6			2	w.		0	0	d. clouds	
Chittagong	29.84	758.0	29.93	760.3	76.7	24.8	71	w.	3.4	1.5			4			0	0	blue sky	
Sibsagar	29.56	750.7	29.90	759.4	70.8	21.6	78	e.	2.0	0.9			0			0	0	blue sky	
Jeypore	28.60	726.5	30.08	764.2	71.9	22.2	19	nw.	5.0	2.2			0	nw.		0	0	d. clouds	
Bellary	28.44	722.4			88.5	31.4	24	se.	4	1.8			0			0	0	blue sky	
Trichinopoly	29.71	754.6			87.1	30.6	38	e.	1	0.4			0			c	0	blue sky	
ITALIAN.																			
Udine	30.16	766.0	30.58	776.7	40.6	4.8	35	ne.	0.7	0.3			0			0	0		Prof. Giovanni Clodig.
Milan	30.08	763.9	30.66	777.3	45.9	7.7	50	se.	3.8	1.7			0			0	0		Prof. Schiapparelli.
Padua	30.48	774.1	30.59	777.0	47.5	8.6	39	ne.	4.9	2.2			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.67	753.5	30.66	777.1	45.5	7.5	66	ne.	2.5	1.1			1	ne.		0	0		Prof. F. F. Denza.
Genoa	30.32	770.2	30.52	775.2	45.5	7.5	61	n.	9.8	4.4			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.62	727.0	30.59	777.0	38.8	3.8	59	w.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	30.30	769.5	30.35	770.8	48.2	9.0	68	nw.	4.9	2.2			9			0	0		Prof. Luigi Guidi.
Florence	30.21	767.2	30.47	773.8	48.6	9.2	42	ne.			7		0			0	0		Prof. Costantino Pittei.
Leghorn	30.32	770.2	30.41	772.4	49.6	9.8	35	ene.	8.1	3.6			0			0	0		Prof. P. Monte.
Rome	30.15	765.7	30.33	770.3	50.7	10.4	58	ene.	0	0			8						Prof. P. Tachini.
Lecce	30.11	764.8	30.37	771.4	51.4	10.8	52	nnw.	9.4	4.2			4	s.		0.469	11.9		Prof. C. de Giorgi.
Cosenza	29.45	748.0	30.37	771.3	48.2	9.0	73	wnw.	3.1	1.4			10	nw.		0	0		Prof. D. Conti.
Cagliari	29.97	761.1	30.16	766.1	52.3	11.3	72	nw.			4		10			0.524	13.3		Prof. A. Pacinotti.
Palermo	29.93	760.3	30.19	766.8	56.3	13.5	72	ne.	2.5	1.1			10			0.230	6.0		Prof. G. Caccintore.
Syracuse	30.17	766.2	30.21	767.4	59.7	15.4	68	s.	5.0	2.5			9	se.		0.043	1.1		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.81	757.2	30.36	771.1	47.1	8.4	68	ne.	13.0	5.8			10	se.		0.007	1.7		Prof. F. Brioschi.
Stelvio	22.41	569.2			20.1	— 6.6	26	e.			2		2			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.40	568.9			25.2	— 3.8	61	e.			7		0			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.09	764.2	30.12	765.0	30.2	— 1.0	84	n.			2		10 ck		n.	0	0	cloudy	H. Hattori.
Awomori	30.14	765.5	30.18	766.6	30.0	— 1.1	69	ese.	2a3	1.0			10 s			0	0	overcast	K. Ogawa.
Hakodate	30.16	766.0	30.17	766.3	27.8	— 2.3	84	n.	4.2	1.9			10			0	0	overcast	
Hamamatsu	29.88	758.9	29.91	759.0	46.2	7.9	98	nnw.			2		10 n			0.660	15.4	raining	
Kagoshima	30.07	763.7	30.08	764.0	52.2	11.2	72	n.			2	0	0			0.004	0.1	clear	G. Miyanonaza.
Kioto	29.83	757.7	30.01	762.3	45.1	7.3	84	nw.	6.0	2.7			10 n			0.272	6.9	light rain	M. Tojima.
Kochi	30.00	762.0	30.03	762.7	51.1	10.6	68	ne.	14.9	6.6		7	0	nw.		0.051	1.3	fair	K. Kusunose.
Minaaka	30.03	762.8	30.00	763.5	52.1	11.2	82	calm			0	1 cs	4ck;ks	nne.	nne.	0.374	9.5	fair	K. Masusaki.
Nagasaki, I. M. Obs'y	29.93	760.1	30.13	765.4	48.0	8.9	85	nne.	11.1	4.9		3 c	0	wnw.		c	0	clear	S. Takehayashi.
Niigata	30.04	763.0	30.08	764.0	35.4	1.9	89	ne.	7.5	3.3			10 n			0.320	8.1	sleeting	M. Morita.
Nobiru	30.11	764.9	30.13	765.3	30.6	— 0.8	97	n.	4.7	2.1			10 n			0.230	5.9	snowy	H. Midzushima.
Numazu	29.92	759.9	29.90	760.9	42.7	5.9	94	sse.			2		10 n			1.710	43.6	raining	R. Kaneda.
Osaka	30.03	762.6	30.04	763.0	45.7	7.6	93	nw.	2.2	1.0			10 n			0.205	6.7	light rain	H. Omura.
Sakai	30.18	766.6	30.19	766.9	42.3	5.7	85	e.			4		10ks;s		ne.	0.130	3.3	cloudy	K. Yamawchi.
Sapporo					27.0	— 2.8	95	calm	0	0			10			0	0	covered	
Tokei Obs'y, Yeddo	29.95	760 8	30.04	762.9	33.0	0.6	99	nnw.	15.6	7.0			10 n			1.605	40.8	raining	The Staff.
Wakayama	29.99	761.7	30.04	763.1	44.6	7.0	94	nw.	6.4	2.9			10 n			0.271	6.9	raining	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.73	755.1	29.92	760.0	81.3	27.3	74	wsw.	6.0	2.7		1ck;cs	5 ks,kn	sw.	wnw.	0.01	0.3	fair	Oliver & Figon.
MEXICAN.																			
Altata					53.5	11.9	83	nw.	12.1	5.4									H. Diaz Pena.
Guanajuato	23.75	603.2	29.97	761.2	52.9	11.6	87	s.	inap.	inap.		4 c	0	nw.		0	0	clear	Prof. Vicente Fernandez.
Leon	24.36	618.7	30.16	766.1	49.3	9.6	92	n.			1	4 c	5 ck	sw.	sw.	0	0	very cloudy	Prof. M. Leal.
Mazatlan	29.77	756.1	30.04	762.9	59.0	15.0	73	nnw.	0.9	0.4		9 cs	0	sw.		0	0	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.16	588.2	30.31	769 8	49.1	9.5	80	calm	0	0		4 ck	5 kn	nw.		inap	inap.	cloudy	The Staff.
Morelia	24.19	614.3	30.09	764.2	52.3	11.3	67	e.			1	2 c	8 k	s.	s.	inap.	inap.	cloudy	M. Tena, M. D.
Pabellon	24.01	609.7	30.12	764.9	51.8	11.0	82	calm	0	0		5 c	0	sw		0	0	½ cloudy	
Puebla, Catholic Institute	23.43	595.1	30.36	770.5	44.4	6.9	82	nne.	5.4	2.4		0	0			0	0	clear	Prof. P. Spina.
Zacatecas	22.56	573.4	30.33	770 3	45.1	7.3	87	ne.	6.6	3.0			10		ne.	0.248	6.3	cloudy	I. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.43	773.0	30.43	773.0	47.3	8.5		wsw.			4					0.024	0.6		
Groningen	30.25	768.4	30.31	769.8	48.2	9.0		sw.			3					0.047	1.2		
Helder																0	0		
Hellevoetsluis	30.44	773.1	30.44	773.1	48.6	9.2	84	wsw.			4					0.010	0.4		
Utrecht	30.38	771.6	30.43	772.8	51.3	10.7	82	sw.			4		8			0	0	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.89	759.3			79.0	26.1	85	wnw.	0	0			7			0	0		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.70	754.4	29.76	756.0	41.4	5.2	90	sw.	20	9			10			0.118	3.0	raining	
Brono	29.25	742.9	29.29	743.9	35.2	1.8	77	sw.			6		10			0.559	14.2	snowing	
Christiania	29.05	753.2	29.81	757.1	30.4	— 0.9	98	sw.	4	2			10			0.098	2.5	foggy	
Gjæsvær	29.10	739.2	29.13	739.8	26.6	— 3.0		sse.			6		8						
Lodingen	29.11	739.3	29.15	740.5	31.3	— 0.4	100	s.			7		10			0.063	1.6	snow & rain	
PORTUGUESE.																			
Angra, Azores	30.37	771.3	30.53	775.4	52.9	11.6	88	se.	9.8	4.4			7			0	0		Dr. J. A. Sampaio.
Campo Major	29.42	747.3	30.45	773.4	54.2	12.3	54	ne.	7.4	3.3			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.01	762.2	30.10	764.4	68.5	20.3	40	ne.	17.4	7.8			6			1.102	28.0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.11	764.7	30.48	774.1	54.0	12.2	55	ene.	24.2	10.8			0			0	0		The Staff.
Ponta Delgada, Azores	30.42	772.7	30.49	774.5	57.9	14.4	63	ne.	8.7	3.9			4			0	0		
Saint Paul de Loando	29.01	752.0	29.80	757.0	82.0	27.8	87	w.	0.7	0.3			10			0.177	4.5		
Serra da Estrella	25.62	650.8	30.54	775.8	36.9	2.7	61	ese.	14.3	6.4			0			0.315	8.0		
RUSSIAN.																			
Akmolinski	29.32	744.6	30.54	775.6	1.1	—18.4	83	wsw.	16	7			10 n			0	0		Major K. Lasarew.
Archangel	30.17	766.2	30.19	766.7	18.0	— 7.8	89	s.	13	6			10			0	0		Capt. Sseliwerstow.
Ashuruda	30.47	773.8	30.37	771.4	41.7	5.4	83	n.	7	3			9 kn			0.272	6.9		
Astrakhan	30.71	780.1	30.03	778.0	24.1	— 4.4	59	se.	16	7			0			0	0		Capt. Wisganow.
Baku	30.50	774.6	30.45	773.4	40.6	4.8	73	nne.	9	4		0	5 k			0	0		
Barnaul	30.05	763 3	30.03	778.1	—10.1	—23.4	79	ssw.	4	2			5			0.004	0.1	light clouds	Meteorological Obs'y.
Bielosersk	29.91	759.7	30.42	772 6	18.3	— 7.6	71	ssw.	9	4		0	0 ks			0	0		
Dorpat	29.87	758 8	30.14	765.5	18.7	— 7.4	95	s.	11	5			10 n			0.031	0.8	snowing	Observatory.
Ekaterinburg	29.62	752.4	30.08	779.3	15.1	— 9.4	79	w.	13	6		0	0			0	0		Meteorological Obs'y.
Elisawetgrad	29.98	761.5	30.47	773.8	23.9	— 4.5	88	n.	7	3			10 n			0.010	0.4		
Irkutsk	28.77	730.8	30.58	776.6	11.8	—11.2	80	nw.			3		9			0	0		
Kasalinsk	30.06	763.6	30.24	768.1	2.5	—16.4	71	nw.	4	2		2 c	0						
Kasan	30.50	774.7	30.80	782.3	13.5	—10.3	77	sse.	11	5		2 cs	0			blank	blank		Observatory.
Kem	29.95	760.7	30.00	762.0	15.8	— 9.0	75	ssw.	45	20			10 k			0	0	heavy cl'ds.	
Kertch	30.30	769.5	30.32	770.0	29.7	— 1.3	96	nw.	4	2			10 n			0	0		Lagerio & Sastyrez.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	OBSERVERS.
Russian.—Continued.																			
Kieff	29.79	756.7	30.48	774.3	18.7	— 7.4	86	n.	7	3			10ks;n			blank	blank		Observatory.
Koslov	30.10	764.6	30.69	779.4	12.4	—10.9	88	sse.	11	5			10 s			0	0		
Libau	30.07	763.7	30.09	764.3	32.9	0.5	96	sw.	9	4			10			0.028	0.7	foggy	E. Quaas.
Lugan	30.21	767.2	30.41	772.4	17.1	— 8.3	77	ene.	22	10			10			inap.	inap.		Meteorological Obs'y.
Moscow	30.05	763.3	30.59	777.0	10.0	—12.2	86	s.	7.8	3.5		0	8 ks			blank	blank		Meteorological Obs'y
Nikolaiev	30.34	770.6	30.41	772.5	28.2	— 2.1	83	ne.	4	2			10 n			0.020	0.5	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor.	30.20	767.0	30.28	769.2	1.8	—16.8	49	calm	0	0			c			0	0		Iwanow.
Pekin, China	30.32	770.2	30.47	774.0	29.8	— 1.2	86	se.	7	3			9 n			0	0		Physical Observatory.
Petro-Alexandrovsk	30.34	770.5	30.72	780.3	20.5	— 6.4	66	ne.	4	2		0	0			0	0		
Petrozavodsk	30.02	762.4	30.23	767.8	14.9	— 9.5	74	ssw.	22	10			9 k			inap.	inap.		Dr. Bergmann.
Pinsk	29.95	760.6	30.48	774.1	26.2	— 3.2	61	ssw.	22	10		0	7 s			0	0		
Poti	30.25	768.3	30.27	768.8	48.6	+ 9.2	71	s.	4	2		0	5 k			0	0		
St. Petersburg	30.19	766.8	30.21	767.2	10.0	—12.2	70	sse.	16	7		cs	9 k			blank	blank	light clouds	Central Physical Obs'y.
Samarkand	27.99	710.9	30.65	778.5	25.0	— 3.9	66	ne.	3.4	1.5		0	0						
Semipalatinsk	29.95	760.8	30.69	779.6	— 4.7	—20.4	80	e.	7	3			10			0	0		Major Lasarew.
Sevastopol	30.15	765.7	30.38	771.7	29.3	— 1.5	88	nne.	16	7			10 n			0.166	2.7		
Starol Bykhov	30.03	762.8	30.54	775.6	18.9	— 7.3	53	se.	2	1						blank	blank		
Tashkend	28.92	734.6	30.78	781.9	14.5	— 9.7	74	calm	0	0		0	0			0	0		Terch, A. M.
Tiflis	28.96	735.5	30.43	773.0	37.8	3.2	52	se.	2	1			10			0	0		Physical Observatory.
Vernoe	27.91	709.0	30.66	778.8	14.5	— 9.7	78	nw.	9	4		2 ck	0						
Viatka	30.02	762.4	30.71	780.0	12.6	—10.8		ssw.	4	2			10			0	0		
Vladivostock	30.37	771.3	30.43	773.0	3.6	—15.8	45	ne.	9	4			5 k			0	0		
Warsaw	29.91	759.7	30.35	771.0	36.1	2.3	70	ssw.	13	6			10			0.047	1.2	heavy clouds	Astronomical Obs'y.
Wilna	29.89	759.3	30.35	770.8	22.8	— 5.1	71	s.	7	3			10			0.055	1.4		Berg, Assistant.
Yeniseisk	30.32	770.1	30.67	778.9	—27.6	—33.1	76	e.	2	1			6			0	0	light clouds	M. O. Marks.
Scottish.																			
Monach Lt			29.87	758.7	48	8.9	92	w.			6		10			0.1	3.	showery	J. Youngclauss.
North Unst			29.61	752.1				w.			7		7						Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.44	773.2	30.55	775.9	51.8	11.0	52	sw.	1.3	0.6		0	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.62	777.7	30.68	779.2	53.2	11.8	62	sw.	1.1	0.5		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.53	699.3	30.66	778.8	39.6	4.2	66	ne.	4.5	2.0		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.27	718.1	30.60	777.1	46.8	8.2	56	e.	8.7	3.9		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.37	771.3	30.52	775.1	55.0	12.8	72	e.	3.8	1.7		3	4	W.		0.012	0.3	misty	Olayo Diaz, Director.
Oviedo	29.90	759.5	30.77	781.6	41.0	5.0	83	n.	2.9	1.3		0	0			0	0	clear	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.58	751.3	30.49	774.5	54.0	12.2	89	ne.	10.5	4.7		0	0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.93	760.2	29.99	761.7	78.0	25.6	62	ne.	9.9	4.4			0			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.25	768.4	30.35	770.9	60.3	15.7	61	e.	35.4	15.8		0	4		e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.6	30.11	764.9	76.3	24.6	72	calm	0	0		3 cs	0	se.		0.295	7.5	clear	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	29.62	752.4	29.66	753.4	20.1	— 6.6	100	sw.			6		10			0.165	4.2	snowing	
Umea	29.61	752.1	29.66	753.4	29.1	— 1.6	76	sw.			4		9			0	0		
Hernosand	29.62	752.3	29.67	753.6	29.8	— 1.2	69	sw.			2		0			0.063	1.6		
Stockholm	29.71	754.5	29.88	759.0	35.8	2.1	84	w.			2		10			0.043	1.1		
Wisby	29.92	760.0	29.98	761.5	37.0	2.8	86	sw.			2		10			0.142	3.6		
Sub-series.																			
Upsala	29.74	755.3	29.82	757.5	33.3	0.7	88	wsw.	12.5	5.6			10			0	0		S. G. Fineman.
Swiss.																			
Geneva	29.17	740.8	30.63	777.9	42.3	5.7	54	n.	9	4			0			0	0	clear	The Observatory.
Turkish.																			
Constantinople			30.49	774.5	31.6	— 0.2	85	n.	25	11.0			10		n.	0.031	0.8		The Observatory.
Valona			30.37	771.3	55.9	13.2		ne.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.12	765.1	63.1	17.3	66	w.			1		1 k		s.	0.786	20.0		Prof. C. V. A. van Dyck.
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	29.88	758.9	29.97	761.2	26	— 3.3	58	w.	4	1.8		3 ck	5 ks	w.	w.	0.04	1.0	cloudy	J. O. Barnes.
Alpena, Michigan	29.40	746.7	30.11	764.8	11.3	—11.5	80	w.	7	3.1		1 k	0	nw.		0.03	0.8	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.05	636.3	30.15	765.8	33	0.6	100	sw.	1	0.4			10 s			0.51	13.0	cloudy	W. O. Barnes.
Assinnaboine, Ft., Montana	27.26	692.4	30.30	769.6	13	—10.6	66	sw.	10	4.5		0	0			0.05	1.3	clear	B. O. Lenoir.
Atlanta, Georgia	29.03	737.3	30.25	768.3	43.0	6.1	51	nw.	7	3.1		0	0			0	0	clear	H. C. Smyth.
Atlantic City, New Jersey	29.90	759.4	29.91	759.7	37	2.8	61	nw.	16	7.2		0	3 k		nw.	0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.99	761.7	30.19	766.8	40	4.4	82	calm	0	0		0	0			0	0	clear	John Healy.
Baltimore, Maryland	30.02	762.5	30.07	763.8	38	3.3	45	nw.	6	2.7		1 k	0	nw.		0	0	clear	Geo. W Feiger.
Barnegat, New Jersey	29.92	760.0	29.94	760.5	34.0	1.1	72	n.	21	9.4		2 k	0			0	0	clear	G. A. Hill.
Behring Id., Behring Sea	30.49	774.4	30.51	774.9	20.8	— 2.9		se.	6	2.7		0	3 k		se.	0	0	clear	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.69	728.7	30.42	772.7	21	— 6.1	87	se.	3	1.3			10 n			0.04	1.0	light snow	A. Pritchard.
Benton, Fort, Montana	27.31	693.7	30.31	769.9	20	— 6.7	58	calm	0	0		0	0			0.03	0.8	clear	S. Wheaton.
Billings, Montana	26.86	682 2			28	— 2.2	67	sw.	4	1.8			10 ks		sw.	0.04	1.0	cloudy	T. Gibson.
Bismarck, Dakota	28.41	721.6	30.39	771.9	— 3	—19.4	68	ne.	3	1.3		10 ck	0	n.		0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.78	756.4	29.81	757.2	33	0.6	78	n.	27	12.5		0	0			0.02	0.5	clear	J. T. Elker.
Boise City, Idaho	27.43	696.7	30.39	771.9	21	— 6.1	87	calm	0	0		0	3 s			0	0	clear	B. E. Light.
Boston, Massachusetts	29.59	751.6	29.75	755.6	31.0	— 0.6	47	w.	12	5.4		0	0			0.08	2.0	clear	O. B. Cole.
Brownsville, Texas	30.17	766.3	30.22	767.6	55.0	12.8	93	ne.	2	0.9			10 s			0	0	cloudy	M. McCarty.
Buffalo, New York	29.29	744.0	30.09	764.3	18.5	— 7.5	84	sw.	20	8.9		2 ck	3 ks	sw.	sw.	0.07	1.8	fair	W. Finn.
Buford, Fort, Dakota	28.15	715.0	30.33	770.4	9	—12.8	80	w.	1	0.4		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.58	751.3	29.89	759.2	17.3	— 8.2	70	w.	11	4.9		0	0			0.01	0.3	clear	D. N. Farnell.
Cairo, Illinois	30.04	763.0	30.46	773.7	32.0	0.0	71	ne.	18	8.0		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	29.96	761.0	29.98	761.5	44	6.7	68	sw.	12	5.4		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.93	760.2	29.96	761.0	41.0	5.0	73	nw.	37	16.5		0	3 k		w.	0	0	clear	W. E. Smith.
Cape Mendocino, California	29.34	745.2	30.04	763.0	46	7.8	100	n.	26	11.6			fg.		nw.	0.02	0.5	dense fog	J. J. McLean.
Cedar Keys, Florida	30.19	766.8	30.21	767.3	51	10.6	80	n.	5	2.2		0	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.55	750.6	30.42	772.7	22.5	— 5.3	66	nw.	82	5.4		0	0			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.08	764.0	30.14	765.5	46	7.8	68	w.	6	2.7		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.25	742.9	30.14	765.5	43.0	6.1	60	w.	4	1.8		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.44	747.8	30.30	769.6	44.0	6.7	50	n.	17	7.6		0	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.09	611.9	30.34	770.6	24.8	— 4.0	67	nw.	6	2.7		4 c	0	nw.		0	0	fair	E. McGovern.
Chicago, Illinois	29.61	752.1	30.30	771.1	19.3	— 7.1	63	w.	11	4.9		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	29.93	760.2	29.95	760.7	41	5.0	65	n.	22	9.8		3 c; hz	0	w.		0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.66	753.4	30.35	770.9	33	0.6	78	w.	8	3.6		0	2 k		w.	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.42	747.3	30.21	767.3	25.7	— 3.5	75	nw.	13	5.8			10 n		nw.	inap.	inap.	light snow	J. B. Newlin.
Coleman City, Texas	28.43	722.1	30.31	769.9	51	10.6	55	s.	1	0.4			10 s		s.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.38	746.2	30.28	769.1	29	— 1.7	67	nw.	10	4.5		0	4 ks		nw.	0	0	fair	D. Cuthbertson.
Concho, Fort, Texas	28.26	717.8	30.28	769.1	48.0	8.9	66	calm	0	0		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.74	755.4	30.44	773.2	23	— 5.0	61	nw.	8	3.6		1 cs	0	nw.		0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.26	641.6	30.22	767.6	38	3.3	67	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.46	722.9	30.27	768.8	31	— 0.6	100	nw.	2	0.9			fg.			0	0	dense fog	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.40	645.1	30.32	770.1	32	0.0	85	calm	0	0			10 s			0	0	threatening.	F. Willson.
Delaware Breakwater, Del.	29.94	760.5	29.96	761.0	37	2.8	82	n.	28	12.5		0	4 ks		n.	0	0	fair	T. S. Townsend.
Denison, Texas	29.49	749.0	30.33	770.4	48.0	8.9	63	calm	0	0			10 s			0	0	cloudy	J. W. Byram.
Denver, Colorado	24.80	629.9	30.32	770.1	31.0	— 0.6	78	calm	0	0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.53	750.0	30.50	774.7	22	— 5.6	58	n.	3	1.3		7 cs	0	nw.		0	0	fair	F. W. Conrad.
Detroit, Michigan	29.46	748.3	30.21	767.3	26.c	— 3.3	76	w.	5	2.2		2 k	0	w.		inap.	inap.	clear	E. R. Brace.
Dodge City, Kansas	27.65	702.3	30.39	771.9	26	— 3.3	67	ne.	6	2.7		6 c	0			0	0	fair	V. P. Temple.
Dubuque, Iowa	29.66	753.4	30.42	772.7	13	—10.6	61	w.	1	0.4		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.44	747.8	30.25	768.3	4	—15.6	72	s.	11	4.9		0	0			0	0	clear	N. B. Couger.
Eagle Pass, Texas	29.43	747.5	30.27	768.8	53.1	11.7	61	s.	2	0.9			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.49	647.4	30.39	771.9	3	—16.1	79	n.	6	2.7		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.56	750.8	29.63	752.6	33.0	0.6	88	s.	14	6.3			10n;fg		sw;s.	0.32	8.1	light snow.	D. C. Murphy.
Elliott, Fort, Texas	27.47	697.7	30.37	771.4	33	0.6	71	n.	2	0.9			10 s		n.	0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.27	667.2	30.15	765.8	44.0	6.7	76	sw.	4	1.8		0	0			0.05	1.3	clear	J. O'Dowd.
Erie, Pennsylvania	29.38	746.2	30.15	765.8	23	— 5.0	88	w	8	3.6			10 ks		nw.	0.02	0.5	cloudy	Peter Wood.
Escanaba, Michigan	29.46	748.3	30.18	766.6	10.0	—12.2	80	sw.	9	4.0		hz.	hz.			0.01	0.3	dense haze.	George Heathcote.
Fredericksburg, Texas	28.45	722.6	30.25	768.3	48	8.9	80	w	1	0.4			10 ks			0	0	cloudy	Frank Halwegler.
Galveston, Texas	30.23	767.8	30.28	769.1	51	10.6	80	ne.	9	4.0		2 c	hz.			0	0	clear	E. O'C. MacInernay.
Grand Haven, Michigan	29.56	750.8	30.27	768.8	23.0	— 5.0	88	w.	16	7.2		0	8 ks		w.	0	0	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.23	640.8	30.09	764.3	32	0.0	65	ne.	4	1.8		0	5 s		se.	0.59	15.0	fair	Robert C. Lord.
Hatteras, North Carolina	29.99	761.7	30.01	762.2	47	8.3	68	w.	18	8.0		hz.	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.89	657.6	30.29	769.4	35	1.7	88	calm	0	0		6 cs	0			0	0	fair	N. C. Smith.
Henrietta, Texas	29.25	742.9	30.30	769.6	47	8.3	66	se.	2	0.9			10 s			0	0	cloudy	J. P. Sherry.
Huron, Dakota	28.94	735.1	30.46	773.7	10.3	—12.1	58	nw.	2	0.9			10 s			0.01	0.3	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.51	749.5	30.36	771.1	26.0	— 3.3	77	nw.	7	3.1		0	0			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.24	768.1	30.27	768.8	49.2	9.6	94	n.	2	0.9		0	5 s			0	0	fair	I. A. Reed.
Jacksboro, Texas	29.04	737.6	30.28	769.1	50	10.0	64	se.	1	0.4		0	0			0	0	clear	D. J. Carr.
Jacksonville, Florida	30.15	765.8	30.20	767.1	45	7.2	93	calm	0	0		0	fg.			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.59	700.8	30.27	768.8	22	— 5.6	73	sw.	4	1.8		4 c	4 s	w.		inap.	inap.	cloudy	A. Schneider.
Keokuk, Iowa	29.75	755.6	30.45	773.4	23.0	— 5.0	73	nw.	6	2.7		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.09	764.3	30.11	764.8	72.0	22.2	84	n	16	7.2		0	4 ks		ne.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.97	761.2	29.99	761.7	45	7.2	60	nw.	14	6.3		hz.	sk.			0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.22	742.2	30.30	769.6	40.8	4.9	58	nw.	6	2.7		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.54	750.3	30.38	771.6	15	— 9.4	48	w.	4	1.8		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.52	749.8	30.48	774.2	30	— 1.1	68	ne.	3	1.3		9 k	0	nw		0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.40	746.7	30.27	768.8	35.5	1.9	89	e.	1	0.4		10 ck	0	s.		0	0	cloudy	W. Bell.
Little Rock, Arkansas	30.05	763.3	30.38	771.6	48	8.9	63	calm	0	0		5 ck	0			0	0	fair	W. U. Simons.
Los Angeles, California	29.72	754.9	30.12	765.0	52	11.1	85	e.	1	0.4			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.78	756.4	30.37	771.4	33	0.6	68	nw.	11	4.9		2 c	4 k	w.	nw.	0	0	fair	L. M Dey.
Lynchburg, Virginia	29.30	744.2	30.02	762.5	45.5	7.5	38	w.	6	2.7		0	0			0	0	clear	Louis Dunne.
Mackinaw City, Michigan	29.41	747.0	30.11	764.8	14.0	—10.0	64	w.	14	6.3		3 k	0	w.		0.23	5.8	clear	F. R. Day.
Macon, Fort, North Carolina	30.03	762.7	30.04	763.0	45.0	7.2	63	sw.	10	4.5		0	0			0	0	clear	William Daly.
Madison, Wisconsin	29.30	744.2	30.38	771.6	12	—11.1	61	w.	10	4.5		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.63	651.0	30.17	766.3	34	1.1	46	w.	12	5.4		6 k	0	w.		0.02	0.5	fair	F. Burke.
McKavett, Fort, Texas																			J. E. Thatcher.
Marquette, Michigan	29.31	744.5	30.09	764.3	14	—10.0	64	w.	10	4.5		0	0			inap.	inap.	clear	J. Gilligan.
Memphis, Tennessee	30.03	762.7	30.38	771.0	42	5.6	92	n.	5	2.2		0	fg.			0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.54	750.3	30.34	770.6	15	— 9.4	67	nw.	16	7.2		0	0			0	0	clear	W. Line.
Missoula, Fort, Montana	26.86	682.2	30.30	769.6	35	1.7	89	e.	1	0.4			10 n			0.23	5.8	light rain	I. H. Young.
Mobile, Alabama	30.24	768.1	30.28	769.1	43.5	6.4	75	n.	4	1.8		0	0			0	0	clear	C. A. Read.
Montgomery, Alabama	30.02	762.5	30.26	768.6	42.5	5.8	94	calm	0	0		0	fg.			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.29	744.0	30.39	771.9	— 4	—20.0	65	w.	5	2.2		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.17	740.9	30.24	768.1	30.5	— 0.8	55	sw.	22	9.8		0	5 s		sw.	inap.	inap.	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.08	586.2	29.70	754.4	— 2.0	—18.9	100	nw.	60	26.8			10n;fg		nw.	0.22	5.6	light snow	S. W. Beall.
Nashville, Tennessee	29.75	755.6	30.36	771.1	43.0	6.1	68	nw.	10	4.5		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.75	755.6	29.87	758.7	29	— 1.7	56	nw.	10	4.5		0	0			0.03	0.8	clear	J. H. Sherman.
New London, Connecticut	29.83	757.7	29.88	758.9	32	0.0	60	nw.	12	5.4		0	0			0.05	1.3	clear	J. G. Lynch.
New Orleans, Louisiana	30.22	767.6	30.28	769.1	54.5	12.5	71	n.	3	1.3		4 c	sk.			0	0	fair	L. Dunne.
Newport, Rhode Island	29.74	755.4	29.79	756.7	31.9	— 0.1	76	nw.	22	9.8		1 k	0	nw.		0.11	2.8	clear	W. McGillivray.
New York, New York	29.78	756.4	29.97	761.2	28.5	— 1.9	65	w.	20	8.9		0	1 k		w.	inap.	inap.	clear	J. B. Merrill.
Norfolk, Virginia	29.95	760.7	29.98	761.5	43	6.1	68	w.	8	3.6		0	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.32	693.9	30.42	772.7	28.6	— 1.9	76	s.	12	5.4			10 s			inap.	inap.	cloudy	E. F. Brady.
Olympia, Washington T'y	30.08	764.0	30.12	765.0	47.0	8.3	96	n.	1	0.4			10 n			0.02	0.5	light rain	J. Dascomb.
Omaha, Nebraska	29.23	742.4	30.50	774.7	24.0	— 4.4	80	n.	5	2.2			10 s			0	0	cloudy	A. Pollak.
Ooglaamie, Alaska	30.20	767.1	30.22	767.6	—16.3	—26.8		nnw.	7	3.1		6 ck	3 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.62	752.3	29.97	761.2	23.0	— 5.0	88	nw.	20	8.9			10 s		nw.	0.11	2.8	cloudy	J. G. Linsley.
Palestine, Texas	29.75	755.6	30.33	770.4	46.5	8.1	63	e.	5	2.2		6 ck	0	w.		0	0	fair	L. M. Pindell.
Pensacola, Florida	30.25	768.3	30.28	769.1	45.7	7.6	66	n.	8	3.6		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	29.90	759.4	30.01	762.2	34.5	1.4	62	nw.	13	5.8		0	0			0	0	clear	E. M. Mattison.
Pike's Peak, Colorado	17.86	453.6	30.58	776.7	16	— 8.9	76	sw.			6	0	0			0	0	clear	H. Hall.
Ploche, Nevada	24.07	611.4	30.23	767.8	35	1.7	72	nw.	10	4.5		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.34	745.2	30.20	767.1	27.0	— 2.8	64	w.	12	5.4		2 c	4 ks	w.		0	0	fair	W. A. Reid.
Poplar River, Montana	27.99	710.9	30.34	770.6				w.			1		10 s			0	0	cloudy	W. D. Maxwell.
Port Eads, Louisiana	30.23	767.8	30.24	768.1	53.8	12.1	93	ne.	8	3.6		9 cs	0	w.		0	0	cloudy	H. B. Boyer.
Port Huron, Michigan	29.46	748.3	30.19	766.8	18.8	— 7.3	80	nw.	11	4.9			10 s		nw.	0.05	1.3	cloudy	W. O. Bailey.
Portland, Maine	29.61	752.1	29.66	753.4	26	— 3.3	76	nw.	9	4.0		0	0			0.11	2.8	clear	W. W. Eichelberger
Portland, Oregon	30.05	763.3	30.12	765.0	42.0	5.6	80	calm	0	0		10 ck	0	nw.		0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					48	8.9	86	w.	10	4.5		0	hz.			0	0	clear	F. S. Coburn.
Prescott, Arizona	24.72	627.9	30.08	764.0	35.0	1.7	85	n.	2	0.9			10 s			0.12	3.0	cloudy	Jas Cassidy.
Provincetown, Mass	29.70	754.4	29.73	755.1	34.5	1.4	79	w.	6	2.7		0	5 s		w.	0.12	3.0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.14	765.5	30.15	765.8	64.5	18.1	90	e.	8	3.6			10 s		ne.	0	0	threatening.	W. J. Evans.
Red Bluff, California	29.70	754.4	30.07	763.8	47	8.3	86	nw.	2	0.9		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.32	744.7	30.02	762.5	19	— 7.2	91	w.	20	8.9			10 n			0.06	1.5	light snow	E. W. McGann
Roseburg, Oregon	29.54	750.3	30.11	764.8	48.8	9.3	93	e.	1	0.4			fg.			0	0	dense fog	J. J. Nanry.
Sacramento, California	29.96	761.0	30.04	763.0	51.5	10.8	86	s.	10	4.5		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.83	757.7	30.47	773.9	29.0	— 1.7	88	n	10	4.5		2 c	3 s		n.	0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.92	760.0	29.96	761.0	7	—13.9	100	n.	12	5.4		0	8 ks		n.	inap.	inap.	cloudy	A. P. Leavitt
St. Paul, Minnesota	29.44	747.8	30.38	771.6	0.0	—17.8	80	sw.	8	3.6		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.28	743 7	30.25	768.3	5	—15.0	76	nw.	13	5.8		0	0			0	0	clear	O. B Dilley.
Salt Lake City, Utah	25.78	654.8	30.34	770.6	25	— 3.9	53	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.54	750.3	30.20	768.6	50.0	10.0	59	e.	1	0.4		5 k	3 s	e.		0	0	cloudy	T. J. Kenan.
San Diego, California	30.03	762.7	30.10	764.5	51.3	10.7	82	e.	4	1.8			10 s			0.02	0.5	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.52	749.8	30.24	768.1	25	— 3.9	73	nw.	24	10.7		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	29.93	760.2	29.90	761.0	30.0	— 1.1	57	nw.	33	14.8		1 k	0	nw.		0	0	clear	B. A. Blundon.
San Francisco, California	30.01	762.2	30.08	764.0	50.5	10.3	93	w.	12	5.4		0	fg.		sw.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.34	592.8	30.42	772.7	39	3.9	82	se.	11	4.9			10 n		s.	0.08	2.0	light rain	H. U. Jones.
Savannah, Georgia	30.08	764.0	30.17	766.3	48	8.9	56	w.	8	3.6		0	hz			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.45	671.8	30.30	769.6	20	— 6.7	73	calm	0	0		2 cs	0	nw.		0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.05	763.3	30.30	769.6	42	5.6	82	calm	0	0		0	8 s			0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	29.02	737.1	30.33	770.4	41	5.0	62	n.	13	5.8			10 s		n.	0	0	cloudy	W. M. Mattingly.
Silver City, New Mexico	24 26	616.2	30.11	764.8	40.5	4.7	72	calm	0	0		5 ck	3 s	se.		0	0	cloudy	N. D. Lane.
Sitka, Alaska	29.86	758.4	29.92	760.0	35.1	1.7	49	e.	6	2.7			10 ks		e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.83	757.7	30.33	770.4	39.0	3.9	82	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.05	763.3	30.09	764.3	45	7.2	76	w.	6	2.7		0	0			0	0	clear	O. Parker.

STATIONS.	Barometer: Corrected for instrumental error and for temperature. Inch.	Barometer: Corrected for instrumental error and for temperature. Mill.	Barometer: Reduced to sea-level. Inch.	Barometer: Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.17	715 5	30.30	769.6	36	2.2	96	calm	0	0	.....	.....	fg.	.....	....	0.44	11.2	dense fog....	H. Clifford.
Springfield, Illinois	29.74	755 4	30.47	773.9	29	— 1.7	77	nw.	7	3.1	.....	0	0	.....	....	0	0	clear.....	T. B. Jennings.
Springfield, Missouri	28.93	734.8	30.44	773.2	29.5	— 1.4	77	e.	10	4.5	.....	7 ck	0	nw.	.....	0	0	fair.....	J. H. Bryce.
Starkville, Miss.	29.83	757.7	30.33	770.4	45	7.2	83	n.	7	3.1	.....	0	5 8	.....	n.	0	0	fair.....	C. Dill.
Stevenson, Fort, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Schneider.
Stockton, Fort, Texas	27.10	688.3	30.23	767.8	42	5.6	83	s.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	A. J. Warren.
Thatcher's Island, Mass	29.71	754.6	29.77	756.1	30.0	— 1.1	77	nw.	22	9.8	.....	3 k	0	w.	.....	0.10	2.5	clear.....	G. Liebmann.
Thomas, Camp, Arizona	27.31	693.7	30.14	765.5	42	5.6	96	calm	.....	.....	0	.....	8 ks	.....	.....	0.67	17.0	cloudy.....	J. T. Fitzgerald.
Toledo, Ohio	29.50	749.3	30.24	768.1	28	— 2.2	64	w.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	A. Buell.
Tucson, Arizona	27.61	701.3	30.07	763.8	40	4.4	82	s.	5	2.2	.....	0	0	.....	.....	0.07	1.8	clear.....	J. L. Whiteside.
Umatilla, Oregon	29.94	760.5	30.32	770.1	33	0.6	88	w.	1	0.4	....	.....	10 8	.....	.....	0	0	cloudy	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	48.2	9.0	80	w.	.....	.....	1	4 k	5 8	sw.	w.	0.49	12.4	cloudy.....	O. L. Pease.
Vicksburg, Mississippi	30.06	763.5	30.33	770.4	45.0	7.2	53	calm	0	0	.....	1 ck	hz.	w.	.....	0	0	clear	James Kenealy.
Visalia, California	29.65	753.1	30.03	762.7	50.4	10.2	68	se.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	O. D. Stewart.
Washakie, Fort, Wyoming	24.56	623.8	30.32	770.1	6.8	—14.0	80	w.	2	0.9	.....	7c k	0	.....	.....	0	0	fair.	T. M. Ambler.
Washington, D. C.	29.92	760.0	30.04	763.0	36.4	2.4	53	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear.....	B. M. Purssell.
West Las Animas, Colorado	26.14	663.9	30.27	768.8	22	— 5.6	61	n.	4	1.8	.....	7 c	0	.....	.....	0	0	fair.....	F. H. Brandenburg.
Williamsport, Pa	29.43	747.5	30.06	763.5	26	— 3.3	57	nw.	8	3.6	.....	.....	10 ks	.....	nw.	inap.	inap.	cloudy.....	B. F. Hough.
Wilmington, N. Carolina	30.02	762.5	30.08	764.0	44	6.7	76	w.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	Samuel A. Haney.
Winnemucca, Nevada	25.73	653.5	30.25	768.3	34.0	1.1	76	ne.	0	2.7	.....	3 c	0	w.	.....	0	0	clear.....	J. Grover.
Yankton, Dakota	29.05	737.9	30.47	773.9	22	— 5.6	58	ne.	1	0.4	.....	.....	10 ks	.....	.....	inap.	inap.	cloudy	J. H. Atfield.
Yuma, Arizona	29.92	760.0	30.07	763.8	49.4	9.7	93	ne.	1	0.4	.....	.....	10 8	.....	se.	0.26	6.6	cloudy.....	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	21.99	558.5	.....	.....	54.0	12.2	88	e.	1	0.4	.....	.....	10ks8	.....	e.	0	0	foggy	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.04	763.0	30.05	763.3	70	21.1	80	..	1	0.4	.....	0	0	.....	.....	0.06	1.5	clear.....	Robert Johnston.
Paramaribo, S. A.	29.97	761.2	29.97	761.2	78	25.6	86	e.	.....	.....	2	.....	8 ks	.....	e.	0.850	21.6	cloudy.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.39	746.5	29.95	760.7	76	24.4	94	calm	.....	.....	0	.....	10 ks	.....	calm	0.25	6.3	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75	23.9	92	ne.	.....	.....	3	0	0	.....	.....	0	0	clear.	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I.	29.93	760.2	30.06	763.5	71	21.7	90	ne.	.....	.....	.....	.....	8 kn	.....	ne.	0.10	2.5	cloudy.....	Aug. Wallos.
Havana, Cuba	30.01	762.2	30.08	764.0	72.9	22.7	73	n.	8	3.6	.....	2 ck	6 k	w.	n.	0.18	4.6	cloudy	Benito Vines, S. J.
York Factory, B. A.	30.01	762.2	30.07	763.8	0.5	—17.5	85	w.	16	7.2	.....	2 k	1 8	w.	w.	0	0	fair.....	Fortesque & Wood.

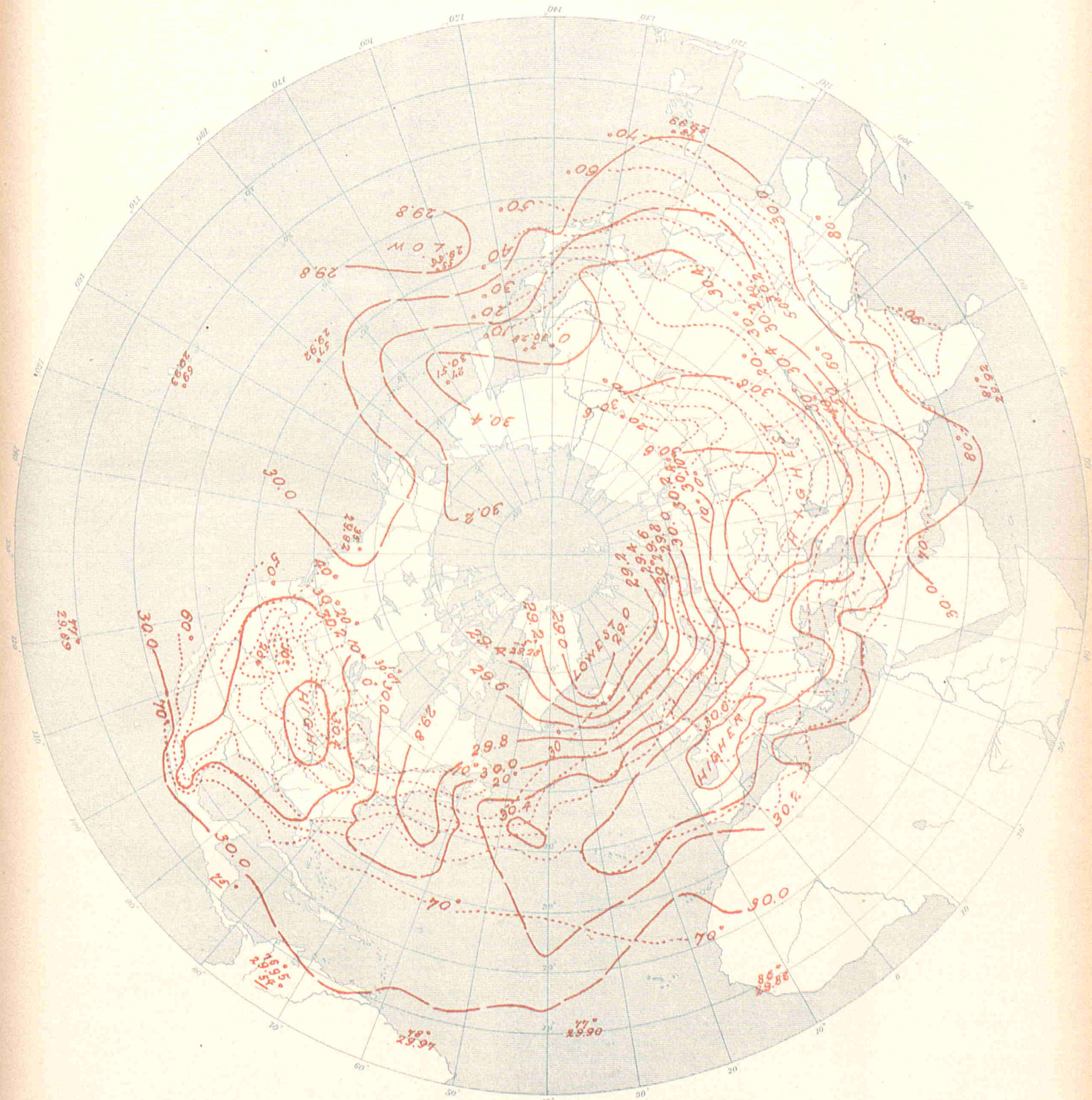
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level. Inch.	Barometer reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Sea-swell. Character.	Sea-swell. Direction from	Weather.
District No. 1—North Atlantic.																		
H. M. S. Condor, N. 34° 05′, E. 22° 38′	30.37	771.4	56	13.3	84	ne.	.....	.....	3	.....	5	ne.	....	.....	.....	3	ne.	d. clouds.
H. M. Dock Yard, Bermuda, W. I.	29.94	760.5	67	19.4	84	ssw.	.....	... .	4-5	.....	7	ssw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Dido, N. 23° 02′, W. 69° 39′	30.12	765.0	74	23.3	. ...	e.	.....	.....	3	.....	4	e.	.....	.....	.....	5	n.	d. clouds.
H. M. S. Fawn, N. 35° 34′, W. 31° 08′	30.41	772.4	59	15.0	70	e.	.....	.....	2-3	.....	10	.....	.....	.....	.....	3	ene.	overcast.
H. M. S. Monarch, Port Said, Egypt	30.06	763.5	66	18.9	84	nw.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	d. clouds,
H. M. S. Minotaur, Vigo Bay, Spain	30.52	775.2	56	13.3	73	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Tyne, N. 13° 07′, W. 42° 38′	29.98	761.5	79	26.1	73	e.	.....	.....	4	.....	2	.....	.....	.....	.....	3	ene.	d. clouds.
H. M. Frigate, Vanadis, N. 36° 42′, E. 12° 25′	30.21	767.3	52.2	11.2	93	wnw.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	misty.
U. S. Navy Yard, Portsmouth, N. H*	29.70	754.4	30	— 1.1	7	wnw.	12	5.4	.....	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Alliance, Matanzas, Cuba	30.09	764.3	70	21.1	7	sw.	.....	.....	1-2	.....	8	.....	.....	light	light	sm'h	.....	cloudy.
U. S. S. Kearsarge, Cartagena, U. S. C.	29.88	758.9	75	23.9	85	ne.	.....	.....	3	.....	8	....	calm	.....	.....	.....	.....	hazy.
U. S. S. Lancaster, Southampton, Eng	30.46	773.7	52	11.1	100	w.	.....	.....	3	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
U. S. S. Nipsic, N. 39° 44′, W. 73° 34′	29.89	759.2	38	3.3	63	nnw.	.....	.....	6	.....	2	.....	n.	.....	.....	sm'h	.....	clear.
U. S. S. Powhatan, N. 37° 40′, W. 68° 40′	30.00	762.0	76	24.4	100	ene.	.....	.....	3	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. Saratoga, New York, N. Y.	29.87	758.7	58	14.4	69	wnw.	.....	.....	1	.....	8	sw.	nw.	.....	.....	cross	.....	cloudy.
U. S. S. St. Louis, League Island, Pa.	29.98	761.5	30	— 1.1	78	nw.	.....	.....	2-5	.....	2	.....	nw.	light	light	sm'h	.....	clear.
U. S. S. Swatara, Hampton Roads, Va	30.00	762.0	33	0.6	99	nw.	15	6.7	.....	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Tennessee, Aspinwall, Panama*	.....	.....	46	7.8	85	wsw.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Vandalia, N. 17° 43′, W. 70° 07′ *	29.97	761.1	81	27.2	87	nne.	12	5.4	.....	.....	5	.....	.....	0.03	0.8	mod.	ne.	fair.
U. S. S. Yantic, N. 23° 52′, W. 92° 45′	30.04	763.0	81	27.2	70	ne.	.....	.....	4	.....	5	.....	calm	.....	.....	sm'h	.....	fair.
S. S. Illinois, Liverpool, Eng	30.18	766.6	72	22.2	100	nne.	.....	.....	3	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
S. S. Lord Clive, N. 46° 50′, W. 40° 30′	30.24	768.1	53	11.7	93	sw.	.....	.....	4	.....	5	.....	w.	.....	.....	.....	.....	fine.
S. S. Lord Gough, Liverpool, Eng	.....	.....	.....	.....	.....	wnw.	.....	.....	3	.....	10	.....	w.	0	0	mod.	nw.	cloudy.
S. S. Ohio, N. 41° 43′ W. 61° 26′ †	30.22	767.6	50	10.0	.....	sw.	.....	.....	4	.....	5	.....	sw.	0	0	.....	.....	cloudy.
S. S. Pennsylvania, N. 47° 44′, W. 40° 37†	29.65	753.1	.....	.....	.....	s.	.....	.....	4	.....	9	.....	sw.	.....	.....	mod.	sw.	cloudy.
S. S. Nova Scotian, Halifax, N. S.	30.26	768 6	36	2.2	100	nw.	.....	.....	3	.....	7	.....	nw.	7 h'r	7 h'r	sm'h	wnw.	cloudy.
S. S. Jason, N. 46° 19′, W. 39° 29	29.83	757.7	27	— 2.8	.....	ese.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	heavy snow
S. S. Alvo, off Arcadero, W. I	30.19	766.8	52.7	11.5	.....	s.	.....	.....	6	.....	8 n	.....	.....	.....	.....	7	sw.	raining.
S. S. Alene, N. 25° 17′, W. 74° 13′*†	30.06	763.5	74	23.3	.....	se.	.....	.....	5	5 c	0	.....	calm	0	0	short	ese.	fine.
S. S. Ailsa, N. 10° 10′, W. 79° 29′†	30.13	765.3	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	long	ne.	fine.
S. S. Assyria, N. 39° 21′, W. 72° 56′	30.02	762.5	77	25.0	95	ne.	.....	.....	5	.....	7	.....	ne.	4 h'r	4 h'r	mod.	ne.	cloudy.
S. S. Bolivia, Greenock, Scotland	.....	.....	38	3.3	100	nw.	.....	.....	6	.....	8	.....	nw.	.....	.....	r'gh	nw.	
S. S. Dorian, N. 42° 47′, W. 58° 10′	30.09	764.3	49	9.4	.....	ssw.	.....	.....	4	.....	10	....	.....	17 h'r	17 h'r	.....	w.	
S. S. Landaff City, N. 42° 36′, W. 57° 20′†	29.99	761.7	48	8.9	.....	se.	.....	.....	6	.....	10	.....	se.	.....	.....	mod.	se.	threatening.
S. S. Bothnia, N. 49° 34′, W. 27° 50′	30.10	764.5	38	3.3	.....	ese.	.....	.....	7	.....	10	.....	s.	.....	.....	hv'y	ese.	cloudy.
S. S. Gallia, N. 50° 25′, W. 20° 24′	30.09	764.3	48	8.9	100	n.	.....	.....	4	.....	8	.....	.....	10 h'r	10 h'r	.....	w.	raining.
S. S. Marathon, N 39° 19′, E. 1° 10′	30.14	765.5	52	11.1	93	sw.	.....	.....	6	.....	10	.....	w.	mist	mist	mod.	wnw.	misty.
S. S. Canada, N. 48° 42′, W. 28° 28′	30.59	777.0	60	15.6	.....	ne.	.....	.....	1	.....	1	.....	ne.	0	0	.....	ne.	fine.
S. S. Wyoming, N. 42° 55′, W. 58° 30′	30.26	768.6	51.8	11	.....	sw.	.....	.....	4	ck	.....	sw.	.....	.....	.....	h'vy	nw.	sprinkling.
S. S. Bohemia, N. 41° 20′, W. 66° 13′†	.....	.....	37	2.8	.....	ese.	.....	.....	6	.....	9	....	.....	wsw.	6 h'r	6 h'r	long	n.	drizzling.
S. S. Vandalia, N. 51° 12′ W. 33° 43′	29.62	752.3	.....	.....	.....	wsw.	.....	.....	4-5	.....	7 k	.....	.....	wsw.	2 h'r	2 h'r	long	wnw.	
S. S. Wieland, Lizard, England	30.25	768.3	41.9	5.5	96	wsw.	.....	.....	6	.....	5	.....	.....	wsw.	.....	.....	6	w.	fair.
S. S. City of Berlin, N. 43° 30′, W. 47° 30′	30.55	776.0	.....	.....	.....	wsw.	.....	.....	4	.....	9	.....	.....	wsw.	0	0	mod.	wsw.	foggy.
S. S. Bulgarian, N. 42° 20′, W. 69° 55′*	30.43	772.9	39	3.9	72	nne.	.....	.....	5	.....	4	.....	.....	ene.	0	0	sli't	ene.	clear.
S. S. Archimedes, N. 32° 45′, W. 16° 27′	29.73	755.1	.....	.....	.....	wsw.	.....	.....	5	.....	9	.....	.....	w.	5 h'r	5 h'r	.....	.....	
S. S. Colorado, N. 24° 50′, W. 84° 00′†	29.92	760.0	.....	.....	.....	ene.	.....	.....	6	.....	8	.....	.....	ene.	0	0	h'vy	ene.	hazy.
S. S. Rio Grande, Galveston, Texas†	30.14	765.5	70	21.1	.....	nne.	.....	.....	4	.....	2	.....	ne.	ligh	light	small	ne.	clear.
S. S. San Marcos, N. 30° 00′, W. 80° 35′	30.44	773.2	56	13.3	.....	ne.	.....	.....	1	.....	1	.....	ne.	0	0	.....	.....	light fog.
S. S. Chalmte, Algiers, La.†	30.14	765.5	58	14.4	.....	n.	.....	.....	4	.....	1	.....	n.	0	0	sm'h	.....	fine.
S. S. New York, N. 27° 00′, W. 79° 50′†	30.27	768.8	50	10.0	.....	ne.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	hazy.
S. S. Alleghany, N. 39° 16′, W. 74° 36′†	30.17	766.3	72	22.2	.....	n.	.....	.....	7	.....	2	.....	n.	0	0	h'vy	n.	clear.
	29.98	761.5	38	3.3	.....	ne.	.....	.....	5	.....	2	.....	n.	0	0	.....	.....	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. City of Merida, N. 19° 11′, W. 96° 08′†	30.27	768.8	74	23.3		n.			2		5?		nw.	1 h'r	1 h'r	light	nw.	cloudy.?
S. S. City of Washington, N. 23° 10′, W. 83° 25′†	30.18	766.6	79	26.1		e.			4		8		e.	o	o	sm'h		fine.
S. S. Denmark, N. 48° 39′ W. 32° 49′ †	30.24	768.1	44	6.7		wnw.			4		10		w.	sh'rs	sh'rs	sli't	w.	overcast.
S. S. England, N. 40° 40′, W. 68° 15′	29.75	755.6				sw.			2		10		sw.	snow	snow	sm'h		cloudy.
S. S. Erin, N. 44° 45′ W. 41° 12′	30.39	771.7	42	5.6		ne.			3		4		e.	6 h'r	6 h'r	sm'h		fine.
S. S. Helvetia, N. 47° 10′, W. 40° 00′	30.33	770.4	38	3.3		wnw.			5		10		wnw.	o	o	light	w.	cloudy.
S. S. The Queen, N. 42° 47′, W. 60° 07′	29.87	758.7	34	1.1		s.			4		10		s.	6 h'r	6 h'r	sm'h		raining.
S. S. Donau, N. 40° 25′, W. 73° 14′	30.00	762.0				w.			7		5		w.	2 h'r	2 h'r	r'gh	w.	fair.
S. S. Elbe, N 45° 15′ W. 45° 04′	30.51	774.9	33	0.6		w.			2-3		2		w.	o	o	sm'h	w.	clear.
S. S. Hermann, N. 40° 39′, W 57° 27′	30.08	764.0	52.7	11.5	80	se.			5		10		se.	1 h'r	1 h'r	4	e.	cloudy.
S. S. Neckar, N. 49° 47′, W. 8° 20′	30.50	774.7	48.0	8.9	92	wsw.			5		3		wsw.	o	o	cross	wsw	fair.
S. S. Wesser, N 46° 19′, W. 39° 25′						nw.			4		5		n	3 h'r	3 h'r	long	n.	foggy.
S. S. Muriel, St. Lucia, W. I*	30.01	762.2	79	26.1		ne.			3		0					sm'h		clear.
S. S. Nederland, N. 40° 45′, W 70° 55′			41	5.0	91	wnw.			4		2		wnw	o	o	sm'h		fair.
S. S. Rhynland, N. 44° 40′, W. 51° 00′	30.35	770.9	30	— 1.1	89	se.			6		8		se.	o	o	long	sse.	cloudy.
S. S. Pennland, N. 49° 59′ W. 21° 30′	30.23	767.8	53	11.7	100	ssw.			7		10		ssw.	20 h'r	20 h'r	long	sw.	rainy.
S. S. Switzerland, N. 50° 11′, W. 3° 19′	30.60	777.2				ssw.			2		10		ssw.	4 h'r	4 h'r	sm'h		misty.
S. S. Waesland, N. 44° 20′, W. 51° 32′	30.44	773.2	28	— 2.2		ese.			4		9		ese.	o	o	mod	ese.	cloudy.
S. S. Zeeland, N. 48° 38′, W. 31° 37′*†	30.20	767.1	48	8.9		n.			4		5		nw.	4 h'r	4 h'r	long	w.	fair.
S. S. P. Caland, N. 41° 57′, W. 61° 38′	29.67	753.6	41.7	5.4	97	wnw.			4		10		w.			2	se.	rainy.
S. S. Rotterdam, N. 48° 45′, W. 18° 10′*	30.45	773.3	54.5	12.5	98	nnw.			5		8		nw.			5	wnw.	foggy.
S. S. Schiedam, N. 49° 35′, W. 15° 25′	30.41	772.4	55.2	12.9		sw.			5		8		var.	3 h'r	3 h'r	long	wsw.	hazy.
S. S. W. A. Scholten, Rotterdam, Nethlands*	30.30	769.6	47.4	8.6	92	wnw.			6		4		wnw.	o	o			
S. S. Zaandam, N. 48° 00′, W. 38° 19′			52.9	11.6	83	wnw.			4		6 k		w.	o	o	3	nw.	fine.
S. S. Caracas, La Guayra, Venezuela†	30.02	762.5	75	23.9	81	calm			0		2		ene.	o	o	mod.	nne.	fine.
S. S. Claudius, Port Antonio, Jamaica†	30.12	765.0	76.0	24.4	82	calm			0		4			1 h'r	1 h'r			fair.
S. S. State of Florida, N. 47° 07′, W. 41° 45′	30.30	769.6	40	4.4		w.			3		9		w.	o	o	mod.	w.	cloudy.
S. S. Lepanto, N. 44° 49′, W. 8° 16′			60	15.6		sse.			3		1		w.	o	o	long	w.	blue sky.
S. S. Marengo, N. 43° 23′, W. 48° 32′†	30.31	769.9				e.			1		1		e.	1 h'r	1 h'r	sm'h	e.	clear.
S. S. Salerno, Hull, Eng†	30.20	767.1	41	5.0		sw.			5		5		sw.	3 h'r	3 h'r	r'gh	se.	raining.
S. S. Toronto, N. 47° 43′, W. 33° 14′*	30.39	771.9	43	6.1		se.			5		4		nw.	8 h'r	8 h'r	long	sw.	fair.
S. S. Lake Huron, N. 40° 50′, W., 63° 20′*	29.56	750.8	44	6.7		nw.			5				w.	7 h'r	7 h'r	sm'h	wnw.	overcast.
S. S. Olbers, N. 24° 51′, W. 20° 30′ *†	29.75	755.6	66	18.9		nne.			5		4		ne.	4 h'r	4 h'r	mod.	nne.	fine.
S. S. Plantyn, N. 41° 50′, W. 60° 42′									0		5		n.	4 h'r	4 h'r	mod.	nw.	
S. S. Catherine Whiting, Providence, R. I†	29.83	757.7	50	10.0		nw.			1		0			o	o			clear.
S. S. Norman, N. 42° 23′, W. 71° 05′*†	29.80	756.9				w.			5					3 h'r	3 h'r			clear.
S. S. Adriatic, N. 48° 05′ W. 31° 49′†	30.26	768.6	45	7.2		nnw.			5		10		nne.	19 h'r	19 h'r	mod.	n.	gloomy.
S. S. Republic, N. 43° 35′, W. 50° 02′†	30.32	770.1	39	3.9	82	se.			5		8		s.	o	o	1		d. clouds.
S. S. Iowa, N. 47° 56′, W. 39° 03′			40	4.4		wsw.			5		8		w.	o	o	long	w.	cloudy.
S. S. Auckland, N. 15° 35′, W. 37° 32′	30.01	762.2	73	22.8	76	ene.			5		4							blue sky.
S. S. Chamois, N. 19° 36′, W. 59° 00′	30.04	763.0	73.5	23.1	74	calm			0		7							showery.
Bk. Commewyne, N. 38° 58′, W. 20° 25′*	30.50	774.7	58.2	14.6	76	ene.			5		5							d. clouds.
S. S. City of Agra, N. 40° 12′, W. 35° 45′	30.37	771.4	60	15.6	94	s.			5		9							d. clouds.
S. S. Ptolemy, N. 22° 48′, W. 60° 10′	30.05	763.3	74.2	23.4	90	nne.			5		8							squally.
Bg. Abbie Clifford, N. 26° 12′, W. 79° 20′ †.	30.10	766.1	74	23.3		ene.			2		2		e.	o	o	mod.	n.	fair.
Bk. Aquidneck, N. 22° 14′, W. 40° 44′*†	30.30	769.6				se.			2				se.	o	o	light	se.	clear.
Bg. Alcira, Maracaybo, Venezuela, S. A.	30.00	762.0	80	26.7		nne.			4		8?		ne.	o	o			clear.?
Schr. Annie A. Holton, Tampico, Mexico†	30.15	765.8	67	19.4		sw.			2		5		sw.	o	o	sm'h		fair.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.10	764.5	77	25.0		ene.			2		2		ne.	o	o			clear.
Schr. Annie Thormann, N. 29° 29′, W. 37° 40′*	30.34	770.5	67.5	19.7	72	ene.			5		7 k		e.	map.	map.	mod.	e.	cloudy.
Bk. Aureola, Swansea, Wales*†	30.42	772.7	71	21.7		wsw.			4		10		wsw.	7 h'r	7 h'r			cloudy.
Bk. Achille F., Queenstown, Ireland†	30.41	772.4	51	10.6	93	s.			5		7		sw.	o	o	sm'h		
Bg. Annie R. Storer, Barbadoes, W. I*†	29.98	761.5				ene.			2		5?		ene.	1 h'r	1 h'r	sm'h		cloudy.?
S. S. Burswell, Queenstown, Ireland*†	30.38	771.6	62	16.7		sw.			3		4		wsw.	o	o	sm'h		fine.
Bk. Bare, N. 0° 45′, W. 28° 00′			85	29.4		sse.			1		2		ese.	o	o	sm'h	ese.	fair.
Bk. Pilgrim, N. 22° 07′, W. 41° 00′*†	30.15	765.8				ese.			5		1		ese.	o	o	mod.	e.	clear
Bk. Clara M. Goodrich, N. 40° 40′, W. 69° 15′						sw			5		10		w.	2 h'r	2 h'r	mod.	w.	clearing.
Bk. Champion, N. 50° 30′, W. 2° 00′			48	8.9		wsw.			5		10		w.	16 h'r	10 h'r	sm'h	wsw.	hazy.
Bkt C. S. Bushnell, Alicante, Spain	30.58	770.7				ne.			4		0			o	o	sm'h		fine.
S. Cornelius, N. 48° 39′, W. 15° 21′†	30.47	773.9	53.4	11.9		ssw.			5		10					long	w.	hazy.
Sch. C. R. Flint, N. 37° 09′, W. 69° 43′*†	29.85	758.2	60	15.6		w.			3		5		ssw.	sh'rs	sh'rs	r'gh	ssw.	fair.
Bk. Commerce, Cadiz, Spain†	30.17	766.3	57	13.9		ne.			8		2		ne.	o	o			fine.
S. S. Canonbury, N. 30° 44′ W., 64° 35′*†	30.12	765.0				s.			4		4		s.	o	o	mod.	s.	fair.
Bk. Chas. Stewart, N 13° 35′, W. 39° 40′†	30.11	764.8	77	25.0		ene.			5		6		o.	o	o	r'gh	var.	hazy.
S. S. D. J. Foley, N. 10° 39′, W. 79° 51′*†	29.98	761.5	80	26.7	100	nne.			4		5		ese.	o	o	sm'h	ne.	fine.
Schr. Edith R. Seward, San Domingo, Hayti, W. I†	29.98	761.5	73	22.8		n.			2		5?		nne.	o	o	r'gh	ese.	clear.?
S. E. J. Spicer, N. 39° 24′, W 48° 00′	30.34	770.6	60	15.6	88	ene.			5		5		nw.	20 h'r	20 h'r	mod.	nw.	fair.
Bk. E. D. Bigelow, N. 33° 37′, W. 43° 04′ *†	30.15	765.8				s.			4		2		s.	o	o	sm'h		hazy.
Schr. F. E. McDonald, N. 29° 52′, W. 66° 21′†	30.14	765.5				ssw.			5		1		ssw.	o	o	mod	ene.	fine.
S. S. Foscolio, N. 35° 58′, W. 5° 48′†	30.31	769.9				e.			9		1		e.	o	o	high	e.	hazy.
S. Festina Lente, N. 55° 44′, W. 20° 00′	29.85	758.2	41	5.0		sw.			0		10		wsw.	1 h'r	1 h'r	long	w.	cloudy.
Bk. Gipsy Queen, Cardenas, Cuba, W. I*†	30.15	765.8	78	25.6		nw.			4		2?		n.					raining.?
Bk. Galeon, Cardiff Roads, Wales			50	10.0		wsw.			4									
S. Hedwig, N. 57° 05′, E. 2° 00′	29.95	760.7	46.9	8.3	75	sw.			6		9		sw.	1 h'r	1 h'r	3	sw.	fine.
Schr. Hattie Weston, Mayaro, Trinidad, W. I *†	29.98	761.5	79	26.1		ene.			2		10		e.	o	o	mod.	e.	cloudy.
Bk Hattie G. McFarland, Pascagoula, Miss*†	30.33	770.4	51	10.6		n.			1		0			o	o			clear.
Bk. Horace Scudder, N. 8° 51′, W. 36° 25′ *†.	29.90	759.4	77	25.0		e.			5		5		e.	o	o	long	ene.	fine.
Schr. Isabel Alberto, N. 26° 43′, W. 73° 48′ †	30.08	764.0				sw.			1		0			o	o	cross	var.	clear.
S. S. J. W. Wilson, off Turpan Bar, Mexico*†	30.15	765.8	60	15.6		w.			3		10		n.	3 h'r	3 h'r	long	nw.	hazy.
Schr. John L. Thomas, N. 36° 10′, W. 75° 08′*†	29.96	761.0				w.			0		0			o	o	short	w.	clear.
S. J. W. Gildemeister, N. 50° 43′ W. 0° 03′	30.50	774.7	50.0	10	97	wsw.			4-5		10		wsw.	13 h'r	13 h'r	3	sw.	overcast.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe*†	30.04	763.0				calm			0		1		ene.	o	o			clear.
Bg. Lilian, N. 29° 40′, W. 69° 04′†	30.00	762.0	69	20.6		wnw.			4		2		wsw.	2½ h'r	2½ h'r	r'gh	var.	clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.07	763.8				nne.			2		5		ne.	o	o			fine.
S. S. Madrid, N. 36° 40′, W. 8° 03′ *†	30.44	773.2	59	15.0	81	e.			0		4		e.	o	o	r'gh	ese.	fair
Bk. Mary A. Troop, Sharpness Point, Eng*†	30.36	771.1				wsw.			0		5		wsw.	o	o			fair.
Bgt. Myrtle, St. Thomas, W. I						ene.			4		5?		ene.	4 h'r	4 h'r			cloudy.?
S. M. P. Grace, N. 43° 02′, W. 33° 32′ *.	30.21	767.3	59	15.0		ssw.			7		3		wsw.	o	o	long	var.	hazy.
S. S. Mendoza, N. 25° 40′, W. 44° 55′*†	30.15	765.8				se.			6		9		se.	4 h'r	4 h'r	r'gh		cloudy.
Bkt. Norena, Matanzas, Cuba, W. I*†	30.18	766.6				w.			1		9		n.	1 h'r	1 h'r			squally.
Bk. Orpheus, N. 46° 56′, W. 10° 40′			60	15.6		calm			0		10 k					sm'h		foggy.
Bk. Ottawa, N. 35° 10′, W. 8° 10′*	30.15	765.8	63	17.2		ene.			5		0			o	o	mod.	e.	clear.
Bk. Reindeer, N. 25° 46′, W. 76° 46′*.	30.07	763.8				ssw.			4		1		ne.			long	nne.	
S. Rudolph, N. 23° 42′, W. 48° 01′			74.0	23.3		sse.			1		3		s.	o	o	mod.	e.	fair.
Bk. Rebus, N. 44° 50′, W. 10° 55′*	30.46	773.7	53	11.7		var.			1		1		ne.	o	o	long	nw.	clear.
Bk. Sunbeam, N. 24° 45′, W. 32° 02′	30.10	764.5	70	21.1	79	ene.			0		5		ene.	o	o	mod	ene.	fair.
Bk. Scud, N. 37° 27′, W. 72° 46′			57	13.9		wnw.			6		2		wnw.	o	o	sm'h		clear.
Bk. Usko, N. 36° 19′, W. 21° 11′ *†	30.45	773.4				ene.			5		5		e.	o	o	long	ne.	fair.
S. Vincenzo Accame, N. 39° 58′, W. 38° 24′ *†	30.39	771.8	66.2	19		sw.			4		7		sw.	o	o	sm'h	sse.	
Schr. Viola Reppard, N. 33° 37′, W. 70° 10′ †	30.00	762.0	60	15.6		nw.			5		0			o	o	small	ne.	clear.
Schr. Wm. Wiler, N. 18° 15′, W. 64° 47′†	30.01	762.2				ne.			1		8		ne.	1 h'r	1 h'r	mod	ne.	squally.
S. Wm. Woodbury, N. 58° 16′, W. 12° 54′			44	6.7		wsw.			7		9		w.			high	w.	cloudy.
S. S. Colon, Aspinwall, Panama †	29.97	761.2	76	24.4		nne.			4		3		ne.	o	o	mod.	var.	clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2—South Atlantic.																		
H. M. S. Heroine, Magellan Strait, Patagonia	29.52	749.8	50	10.0	100	wsw.			6		9	wsw.				sm'h		misty.
H. M. S. Starling, S. 8° 45′, E. 13° 17′	29.86	758.4	81.3	27.4	7	w.			1		3							d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.94	760.5	69	20.6	79	sse.	5	2.2			5		s.	0	0			fair.
U. S. S. Galena, Colonia, Uruguay*	29.94	760.5	70	21.1	100	nw.			1		5		sw.			sm'h		fair.
S. S. Grecian, Buenos Ayres, La Plata*	29.98	761.5	67	19.4	89	se.			2		3		se.	0	0			clear.
S. S. Hevelius, S. 23° 30′, W. 40° —′ †	30.22	767.6	80	26.7		nne.			6		2		ne.	12 h'r	12 h'r			clear.
S. S. Caldew, S. 5° 28′, W. 16° 35′	29.91	759.7	80.9	27.2	78	ese.			3		5							d clouds.
S. S. May Hulse, S. 58° 18′, W. 68° 13′	29.29	744.0	41	5.0	91	sw.			2		10							overcast.
Bk. Ceres, S. 10° 46′, W. 33° 21′*	29.97	761.2	81.0	27.2	76	ese.			6		7		ese.	sh'rs	sh'rs	mod.	se.	fair.
S. Armenia, S. 1° 22′ W. 31° 27′ *	29.80	756.9	82	27.8	87	ese.			3		2		ese.	0	0	sm'h	s.	clear.
Bk. Essex, S. 29° 13′, E 6° 19′ *†	30.00	762.0	70.0	21.1		s.			5		5		s.	0	0	mod.	ssw.	fine.
Bk. E. L. Pettingill, S. 21° 28′, W. 28° 42′ *†	30.10	764.8	84	28.9		nne.			2		2		ne.	0	0	sm'h		
S. E. B. Sutton, S. 32° 20′ W. 47° 00′ †	29.90	759.4	72.5	22.5	85	sw.			2		2		sw.	0	0	mod.	sw.	clear.
S. Grecian, S. 31° 52′, W. 24° 19†	30.11	764.8	80	26.7	87	nnw.			5		8		var.	½h'r	½h'r	long	sw.	fair.
S. Sovereign of the Seas, S. 51° 59′, W. 51° 15′ *†	30.04	763.0	47	8.3	100	n.			5		3		nnw.	0	0	long	var.	misty.
S. Titan, S. 38° 05′, W. 53° 24′ *†	29.95	760.7	69	20.6	70	sse.			2		1		s.	1 h'r	1 h'r	long	se.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay †	30.00	762.0	69	20.6		s.			3		5		s.	0	0			fair.
District No. 3—North Pacific.																		
S. S. Mexico, N. 24° 24′, W. 111° 58′ †	30.12	765.0	65	18.3	48	nnw.			1		0					sm'h		clear.
S. S. Belgic, N. 37° 17′, E. 158° 58′ *†	29.56	750.8	55	12.8	56	wnw.			6		5		nw.	0	0	h'vy	nnw.	fair.
S. S. Coptic, N. 38° 10′, W. 174° 13′	29.92	760.0	56.5	13.6	69	sse.			5		8		se.	sh'rs	sh'rs	sm'h	s.	squally.
S. S. Oceanic, Yokohama, Japan*	29.93	760.2	38	3.3	90	n.			6		9		s.					raining.
S. S. Columbia, Willamette River, Oregon†	30.11	764.8	43	6.1	83	sse.			1		8		ene.					cloudy.
S. S. Oregon, Mouth of Columbia River†	30.08	764.0	47	8.3	92	e.			2									foggy.
S. S. Willametta, Seattle, Wash. Ter †	30.12	765.0	48	8.9	92	s.			1		10		s.	0.45	11.4			rain & fog.
S. S. Ancon, N. 37° 18′, W. 122° 30′ †	30.04	763.0	51	10.6	86	se.			1		10		se.					cloudy.
S. S. City of Chester, San Francisco, Cal*†	30.05	763.3	50	10.0	86	sw.			2		0			0	0			clear.
S. S. Dakota, N. 40° 38′, W. 124° 47′ *†	30.01	762.2	45	7.2	61	nw.			4		5		nw.			light	nw.	cloudy.
S. S. G. W. Elder, N. 46° 45′, W 124° 57′ †	30.15	765.8	46	7.8	100	se.			3		0			light	light	sm'h		dense fog.
S. S. Orizaba, N. 35° 10′ W. 120° 43′*†	30.10	764.5	56	13.3	87	s.			2		fg		wnw.	0	0	sm'h	nw.	dense fog.
S. S. Queen of the Pacific, San Francisco, Cal†	30.05	763.3				nw.			3		0							clear.
S. S. City of New York, N. 22° 29′, W. 155° 30′†	29.98	761.5	75	23.9	82	ssw.			2		2		ssw	7 h'r	7 h'r	mod	se.	clear.
S. S. City of Pekin, N. 24° 11′, E. 118° 44′†	30.04	763.0	56	13.3	87	ne.			6		10		ne.			mod.	ne.	overcast.
S. S. City of Rio de Janeiro, N. 17° 34′, W. 101° 54′			80	26.7	78	w			1		1		w.	0	0	mod.	w.	clear.
S. S. Colima, Panama, Panama†	29.98	761.5	78	25.6	91	nnw.			3		3		nw.	0	0			clear.
S. S. San José, San Blas, Mexico†	29.99	761.7	66	18.9	89	nne.			1	5 c ?		ne.		0	0	long	nw.	overcast?
S. S. Zealandia, San Francisco, Cal	30.09	764.3	52	11.1	86	calm			0		0							fine.
H. M. S. Curacoa, Kobe, Japan	29.88	758.9	48.5	9.2	93	nw.			1		10							drizzling.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.97	761.2	70	21.1		calm			0		2							d. clouds.
H. M. S. Swiftsure, N. 8° 48′, W. 122° 00′	29.89	759.2	77	25.0	100	nne.			4		10	ne.						d. clouds.
U. S. Naval Hospital, Yokohama, Japan*	30.16	766.1	34.5	1.4	95	n.			5		10		n.	0.98	24.9			raining.
U. S. S. Independence, Mare Island, Cal	30.10	764.5	51	10.6	93	sw.			2		2			0	0			fair.
U. S. S. Lackawanna, Honolulu, Sandwich Islands*	29.93	760.2	69	20.6	85	calm			0		10		se.					fair.
U. S. S. Monocacy, Hope Bay, China	30.04	763.0	58	14.4	100	e.			3		5		ne.			long	e.	squally.
U. S. S. Palos, Tientsin China*	30.39	771.9	26	—3.3	100	s.			2		10		sw.					cloudy.
U. S. S. Ranger, Mare Island, Cal	30.10	764.5	50	10.0	93	wsw.			3		2			0	0			fair.
U. S. S. Richmond, Hong-Kong, China*	29.92	760.0	71	21.7	85	ese.			1		0			c	0			clear.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.93	760.2	69	20.6	95	calm			0		2		ne.			sm'h		clear.
S. S. Scotia, Hong Kong, China	29.98	761.5	67.4	19.7	89	ene.			1–5		1							misty.
S. Henry Failing, Wilmington, Cal†	30.13	765.3	60	15.6		var.			1		1		ne.	0	0	sm'h		fine.
S. St. Francis, N. 2° 34′ W. 122° 55′†	29.89	759.2	76	24.4		se.			4		4		se.	0	0	h'vy	nne.	fine.
Tamega, Macao, China	30.04	763.1	69.8	21.0	86	calm			0		10			0	0			overcast
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.91	759.7	67	19.4	95	sse.			1		6	ese.						foggy.
H. M. S. Kingfisher, S. 10° 06′, W. 103° 23′	29.95	760.7	77	25.0		sse.			5		5					4	sse.	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	29.71	754.6	71.3	21.8	90	ne.			2		10					1	ne.	showery.
H. M. S. Liffey S. 29° 56′, W. 71° 20′	29.90	759.4	62	16.7		nne.			1							sm'h		
H. M. S. Rocket, S. 53° 10′, W. 71° 00′	29.53	750.0	52	11.1	86	wsw.			4		5	wsw.				sm'h		squally.
H. M. S. Sylvia, Sandy Point, Patagonia	29.55	750.6	50	10.0	72	wsw.			3		4							d. clouds.
U. S. S. Essex, Callao, Peru	29.90	759.4	67	19.4	95	se.			1		10							foggy.
U. S. S. Iroquois, S. 35° 22′, W. 97° 39′	30.32	770.1	70	21.1	90	nw.			1		2		nw.			long	s.	clear.
U. S. S. Onward, Callao, Peru*†	30.02	762.5	65	18.3	94	se.			1		10		n.					cloudy.
U. S. S. Pensacola, S. 28° 43′, W. 72° 54′*	29.91	759.7	63	17.2	78	s.			4		10		sse.	0	0	mod	sse.	cloudy.
British Merchant, S. 41° 39′, W. 136° 05′	29.71	754.6	56.2	13.4	69	ssw.			5		7							d. clouds.
Bk. Childwall, S. 23° 39′, W. 132° 40′ *	29.78	756.4	74	23.3		nw.			3		5		nnw.	2 h'r	2 h'r	gentle	nw.	showery.
Bk. Edmund Phiney, S. 57° 22′, W. 73° 46′ †	29.50	749.3	47	8.3		wnw.			4		6		wnw.	0	0	long	wnw.	fair.
Bk. Gronsvaer, Auckland, N. Z †	29.69	754.1	73.0	22.8		nne.			6		10		ne.	4 h'r	4 h'r			light rain.
Bk. Godeffroy, S. 28° 44′, W. 86° 28′*	30.06	763.5	66.4	19.1	90	se.			5		7		se.	light	light	mod.	var.	cloudy.
S. S. Australia, Sydney, N S. W*	29.65	753.1	75	23.9	95	calm			0		1		n.	0	0			clear.
S. S. City of Sydney, Sydney, N. S. W †	29.93	760.2	74	23.3	72	se.			3		8		se.	0	0			cloudy.
H. M. S. Gannet, S. 2° 12′, W. 79° 51′	29.89	759.2	74	23.3	93	se.			1		10							raining.
S. Geo. Stetson, S. 57° —′, W. 74° —* †*	29.45	748.0	45	7.2	84	w.			7		2		w.	0	0		w.	clear.
Bkt. Warden Law, S. 38° 22′, W. 90° 20′*	30.34	770.6				sse.			1		4		sse.	0	0	long	sw.	fair.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 6° 10′, E. 39° 11′	29.88	758.9	85	29.4		nne.			2		2	nne.				1	nnw.	d. clouds.
H. M. S. Eclipse, N. 28° 59′ E. 50° 48′	29.86	758.4	64	17.8		s.			3–4		9	ssw.						squally.
H. M. S. London, Zanzibar, Zanzibar	29.88	758.9	82	27.8		ne.			2		2	ese.				2	nne.	d. clouds.
H. M. S. Woodlark, Chakbar Bay, Arabia	30.12	765.0	72.5	22.5	50	se.			3		6	se.						showery.
S. S. Galatia, N. 9° 56′, E. 69° 56′†	29.92	760.0	81	27.2	91	ne.			3		2		ne.	0	0	sm'h		fair.
Bkt. Josephine, S. 34° 24′, E. 25° 58′†	29.63	752.6	82	27.8	71	ne.			5		2			0	0	mod.	e	hazy.
S. Sacramento, S. 45° 30′, E. 62° 00′*†	30.07	763.8	47	8.3	92	s.			6		10		sw.	driz.	driz.	mod.	sw.	overcast.

International Chart I. February 21, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W. B. Hazen, Chief Signal Officer.
Signal Office 14th.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 22, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.48	774.1	62.2	16.8	76	nw			7		0			0	0	clear	**Malaterre.**
Algiers			30.51	775.0	56.1	13.4	73	nne.			4		10			0.067	1.7	covered	**Thève.**
La Calle			30.32	770.2	54.7	12.6	87	e.			0		6			0.925	23.5	cloudy	**Fonfrède.**
Tunis			30.29	769.4															**Jacques.**
Saida			30.25?	768.47	54.3	12.4	79	sw.			1		2			0	0	fair	**Pérès.**
Tebessa			30.32	770.2	44.2	6.8	77	ne.			1		4			0.402	10.2	cloudy	**Dognon.**
Geriville					60.1	15.6	3	sse.			4		0			0	0	clear	**Forfert.**
Laghouat			30.40	772.2	54.7	12.6	28	nnw.			1		0			0	0	clear	**Abraham.**
Biskra			30.31	769.8	66.9	19.4	28	n.			2		7			0	0	very cloudy	**Malau.**
Australian.																			
Melbourne, Victoria	29.89	759.2	29.98	761.5	65.0	18.3	82	calm	0	0			1			0	0	fine	**R. L. J. Ellery.**
Austro-Hungarian.																			
Agram	29.92	760.0	30.48	774.3	49.5	9.7	41	se.			4		0			0	0		**Prof. Ivan Stezir.**
Cracow, I. R Observatory	29.54	750.3	30.34	770.5	41.0	5.0	84	wsw.	6.9	3.1			10			0.016	0.4		**Dr. Wierzbiski.**
Eperies	29.47	748.5	30.39	771.9	37.8	3.2	73	calm			0		10 s			0	0		**Julius Mikolik.**
Gratz	29.17	740.8	30.45	773.5	47.1	8.4	64	calm			0		0			0	0		**Andreas Rospini.**
Hermannstadt	28.96	735.6	30.48	774.1	34.7	1.5	87	wsw.			1		10			0.094	2.4	snowing	**Prof. A. Gottschling.**
Kremsmunster, Obs'y	29.14	740.2	30.53	775.5	45.0	7.2	74	wnw.			4	cs	9 k			0.228	5.8	gloomy	**The Staff.**
Lemberg	29.26	743.1	30.29	769.4	36.1	2.3	91	nw.			3		10			0.280	7.1		**Dr. T. Stanecki.**
Neu Schmecks	26.87	682.4	30.35	770.8	38.3	3.5	75	calm			0		7			0	0		**Dr. V. von Szontagh.**
Pola	30.39	772.0	30.51	774.9	50.0	10.0	42	nw.			1		0			0	0		**I. R. Hydrographic Office.**
Szathmar	29.89	759.1	30.36	771.1	35.1	1.7	75	e.			1		10			0.091	2.3		**Joseph Midlinszky, S. J.**
Szegedin	30.17	766.3	30.46	773.7	42.4	5.8	82	w.			1		10			0	0		**Karl Stancel.**
Trieste	30.43	772.8	30.52	775.3	46.8	8.2	88	calm			0		0			0	0		**Royal Academy.**
Vienna	29.73	755.1	30.47	773.8	47.5	8.6	68	w.			7		1			0.008	0.2		**I. R. Central Met. Obs'y.**
British.																			
Aberdeen	30.00	762.0	30.10	764.5	43.6	6.4	50	w.	28	12.5			2			0	0	squally	**W. Boswell**
Armagh, Observatory	30.22	767.6	30.47	773.9	44.3	6.8	67	w.	18	8.0			3					d. clouds	**S. Call.**
Bidston, Liverpool Obs'y			30.42	772.7	46.2	7.9	77	w.	31	13.9			1					blue sky	**John Hartnup.**
Bolton, Sharples	29.83	757.7	30.38	771.6	46.1	7.8	73	w.	24	10.7			3					d. clouds	**Thomas Mackereth.**
Bradford, Yorkshire	29.94	760.5	30.33	770.4	47.6	8.7	63	sw.			3		5			0	0	d. clouds	**McLandsborough & Preston.**
Bridgetown, Barbadoes	29.92	760.0	29.95	760.7	80.0	26.7	71	ne.			2		2					d. clouds	**Corpl. J. Surgenor, A. H. C**
Cardington	30.33	770.4	30.44	773 2	51.0	10.6	86	nw.			1.0		9					overcast	**John McLaren.**
Chatham, School M. E.	30.31	769.9	30.44	773.2	53.9	12.2	77	w.			1		7					d. clouds	**Corpl. G. A. Pickles.**
Falmouth, Observatory	30.38	771.6	30.61	777 5	51.6	10.9	89	w.			3		8					d. clouds	**The Staff.**
Fort Napier, Natal	27.44	697 0	29.67	753 6	89.0	31.7	49	ne.			1		5					blue sky	**Corpl. F. Milner, A. H. C.**
Freetown	29.04	752.8	29.87	758.7	85.0	29.4	79	e.			1		3						**Sgt. J. Robinson.**
Galway	30.44	773.2	30.48	774.2	48	8.9	62	w.			3		3			0.00	1.5	drizzling	**Wm. Ryan.**
Gibraltar, Mediterranean	30.38	771.6	30.43	772.9	70.2	21.2	95						8					gloomy	**Sgt. F. Norris, A. H. C.**
Glasgow, Observatory	30.07	763.8	30.28	769.1	49.2	9.6	35	wsw.			2		5 k					d. clouds	**Harry Urquhart, Asst.**
Greenwich, Royal Obs'y	30.28	769.1	30.45	773.4	52.8	11.6	79	wsw.			4		10					overcast	**The Staff.**
Guernsey	30.30	769.6	30.61	777.5	49.5	9.7	96	wnw.			3		10					raining	**A. Collenette, F. M. S.**
Kew, Observatory	30.42	772.7	30.46	773.7	53.0	12.0	76	w.	19	8.5			8					d. clouds	**The Staff.**
Leicester, Museum	30.15	765.8	30.41	772.4	50.0	10.3	75	nw.			2		10					raining	**J. C. Smith.**
Malta, Mediterranean	30.08	764.0	30.16	766.1	56.0	13.3	82	se.			2		7			0	0	d. clouds	**Corpl. Keene, A. H. C.**
Nassau, Bahamas	30.06	763.5	30.10	764.5	74.0	23.3	70	ne.			2		9					overcast	**C. S. Duncombe.**
Oscott, St. Mary's College	29.87	758.7	30.40	772.1	48.2	9.0	77	wnw.			4		5					threatening	**Rev. Jas. W. Browne.**
Oxford, Radcliffe Obs'y	30.22	767.6	30.45	773.4	51.2	10.7	86	wsw.			6		10					squally	**The Staff.**
Plymouth	30.49	774.4	30.57	776.5	51.8	11.0	95	wnw.			2		10					misty	**John Merrifield.**
Sandwick Manse, Orkneys	29.77	756.1	29.87	758.7	38.9	3.8	82						5					showery	**Rev. C. Clouston, L.L.D.**
Scutari Cemetery, Turkey	30.33	770.4	30.40	772.1	39.2	4.0	62	nne.			2		8			blank	blank	d. clouds	**W. H. Lyne.**
Sheffield	30.00	764.3	30.38	771.6	49.9	9.9	70	w.			4		2			0	0	d. clouds	**W. F. Cooper.**
Silloth Rectory	30.29	769.4	30.32	770.1	46.4	8.0	74	w.			4		5			0.015	0.4	d. clouds	**Rev. F. Redford, M. A.**
Stonyhurst, Observatory			30.38	771.6	46.1	7.8	80	w.	29	13.0			5					d. clouds	**Rev. S. J. Perry.**
Stratfield Turgiss	30.26	768.6	30 49	774.4	51.8	11.0	87	w.			3		7					d. clouds	**Rev. C. H. Griffiths, F. M. S.**
Truro, Royal Institution	30.59	777.0	30.64	778.2	55	12.8	93	nw.			4		10					raining	**W. Newcombe.**
Valencia, Observatory	30.60	777.2	30.63	778.6	48.3	9.1	62	nw.	16	7.2			7					misty	**The Met'g'l Office.**
Sub-series.																			
Gozo, Episcopal Seminary	29.91	759 7	30.30	769.6	55.4	13.0	70	e.	24.8	11.1		0	6 n		e.	2.047	52.0	fair	**Rev. Ph. Borrello.**
Canadian.																			
Bathurst, N. B					10	—12.2		nw.	5	2.2		2 ck	0			0.200	5.1	blue sky	**Hon. J. Ferguson.**
Charlottetown, P. E. Island	29.68	753.9	29.72	754.9	11	—11.7	80	w.	21	9.4		0	0			0.170	4.3	clear	**H. J. Cundall, C. E.**
Chatham, N. B*	29.72	754.9	29.79	756.7	7	—13.9	83	sw.	9	4.0		8 k	2 ks	sw.	sw.	0.04	1.0	fair	**G. A. Blair.**
Cornwall	29.63	752.6	29.84	757.9	18.0	— 7.8	94	sw.			1		10 s			inap.	inap.	d. clouds	**Jas. Smith, M. A.**
Dalhousie	29.66	753.4	29.71	754.6	7.5	—13.6		w.			3	0	0			0.050	1.3	blue sky	**H. A. Johnson.**
Father Point, Quebec*	29.79	756.7	29.81	757.2	10	—12.2	87	nw.	10	4.5		5 k	2 s	nw.	w.	0.02	0.5	fair	**J. McWilliams.**
Fort Garry, Manitoba*	29.34	745.2	30.32	770.1	—18	—27.8	48	n.	8	3.6		0	0					clear	**James Stewart.**
Fredericton	29.82	757.4	29.90	759.4	0.1	—14.4	86	nw.	1	0.4		0	1 s			0	0		
Granton	28.76	730.5	29.93	760.2	21.3	— 5.9	96	w.	5	2.2			10 n			0.045	1.2	blue sky	**Prof. Harrison, L. L. D.**
Halifax, N. S*	29.74	755.4	29.88	758.9	15	— 9.4	91	w.	6	2.7		0	1 k		w.	inap.	inap.	snowing	**Jas. Grant.**
Hamilton	29.47	748.5	29.87	758.7	20.2	— 3.2	87	sw.			2	10 cs	0	sw.		0.030	0.8	clear	**A. Allison.**
Kingston, Ontario*	29.50	749.3	29.86	758.4	23	— 5.0	96	sw.	10	4.5			10 n			0	0	overcast	**Geo. Dickson, B. A.**
Montreal, Quebec*	29.04	752.8	29.86	758.4	17	— 8.3	87	n.	4	1.8			10 ks			inap.	inap.	heavy snow	**A. P. Knight, M. A.**
Ottawa	29.59	751.6	29.85	758.2	16.2	— 8.8	100	ne.			1		8 ks			0.04	1.0	cloudy	**C. H. McLeod, C. E.**
Parry Sound, Ontario*	29.08	738.6	29.82	757.4	19	— 7.2	87	se.	2	0.9			10 n			0.10	2.5	d. clouds	**A. McGill, M. A.**
Peterboro	29.08	738.6	29.86	758.4	20.3	— 3.2	75	w.			2		10 n		se.	0.20	5.1	light snow	**Rev. R. Mosley.**
Port Dover, Ontario	29.20	741.7	29.93	760.2	24	— 4.4	100	sw.	7	3.1			8 n			0	0	overcast	**J. Dixon, B. A.**
Port Stanley, Ontario	29.27	743.4	29.95	760.7	25	— 3.9	100	w.	16	7.2			10 n		sw.	0	0	threatening	**H. Morgan.**
Quebec, Quebec*	29.50	749 3	29.80	758.4	4	—15.6	72	nw.			3	8 c	8 k	nw.	w.	0.02	0.5	light snow	**M. Payne.**
Rockliffe, Ontario*	29.30	745 7	29.88	758.9	— 9	—22.8	78	calm	0	0		0	0		nw.	0.04	1.0		**Capt. Ashe, R. N**
Saugeen, Ontario*	29.10	739.1	29.85	758.2	23	— 5.0	96	sw.	7	3.1			10 s			0	0	clear	**W. H. McIntyre.**
St. Andrews, N. B	29.83	757.7	29.85	758.9	17	— 8.3	74	wnw.	3	1.3		2 k	0	w.		0.15	3.8	cloudy	
St. John, N. B	29.72	754.9	29.99	759.4	12	—11.1	100	nw.	7	3.1		0	0			0.01	0.3	cloudy	
St. Pierre, N. F			29.45	748.0	21.9	— 5.9		w.			7					0	0	blue sky	**G. Murdock, C. E.**
Stratford	28.57	725.7	29.94	760.5	15.4	— 9.2	91	w.	2	0.9						0	0		**The Commandant**
Sydney, C. B*	29.53	750.0	29.66	751.8	14	—10.0	100	w.	29	13.0		0	10 s			0	0	overcast	**C. J. Macgregor, M. A.**
Toronto, Ontario*	29.50	749.3	29.91	759.7	21	— 6.1	91	sw.	5	2.2			2 n			0.29	7.4	clear	**T. C. Hill, C. E.**
Windsor	29.76	755.9	29.86	758.4	15.5	— 9.2	83	w.	16	7.2		2 k	10 ks		sw.	0	0	cloudy	**Magnetic Observatory.**
Woodstock	28.72	729.5	29.85	758.2	21.1	— 6.1	94	sw.	11.5	5.1			0			0	0	fine	**Prof. W. H. Butler, M. A.**
Yarmouth, N. S*	29.83	757.7	29.99	759.4	25	— 3.9	76	nw.	16	7.2		5 ck	8 k	w.	nw.	0.05	1.3	overcast	**Prof. Wolverton, M. A.**
																			Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
CAPE COLONY.																			
Cape St. Francis Lt. House	29.79	756.7	29.82	757.4	74.0	23.3	79	ssw.	11.2	5.0	.....	0	2 k	.....	.....	0	0	hazy	John Duthie.
Springbok Fontein	27.84	707.1	.....	.....	73	22.8	81	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	24.69	627.0	.....	.....	25.7	— 3.5	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	snowy	
Tchang-kia-tchouang	30.35	770.8	30.46	773.6	29.3	— 1.5	88	sw.	.....	.....	1	.....	10	.....	.....	0	0	covered	R. P. Desurmont, S.J.
Zi-Ka-Wei, near Shanghai	30.22	767.6	30.25	768.3	38.5	3.6	97	nnw.	4.9	2.2	.....	.....	10 k	.....	.....	0.587	14.9	covered	M. Marc Dechevreus, S.J.
DANISH.																			
Copenhagen	29.80	757.0	29.85	758.2	44.6	7.0	91	w.	20	9	.....	.....	10	.....	.....	.....	.....	raining	Oversergent Fischer.
Fanoe	29.98	761.5	30.00	762.0	40.6	4.8	98	w.	.....	.....	6	.....	6	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.85	758.2	29.89	759.3	— 5.8	—21.0	93	e.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	29.85	758.2	29.87	758.7	— 3.3	—19.6	.....	calm	.....	.....	0	.....	6	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.81	757.1	29.85	758.3	— 9.0	—22.8	.....	e.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.10	739.2	29.15	740.3	22.6	— 5.2	93	sw.	.....	.....	8	.....	10	.....	.....	.....	.....	snowing	A. O. Thorlacius.
Thorshavn	29.52	749.9	29.56	750.8	35.8	2.1	62	w.	32.4	14.5	.....	.....	5	.....	.....	.....	.....	sleeting	Overloerer Bergh.
Vestervig	29.81	757.2	29.90	759.5	40.5	4.7	94	w.	.....	.....	6	.....	0	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	29.73	755.1	29.78	756.3	— 8.5	—22.5	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	
FRENCH.																			
Agen, Normal School	30.05	763.2	30.72	780 3	50.0	10	76	calm	.....	.....	0	.....	fg	.....	.....	0	0	foggy	M. Labroue, Director.
Alençon, Normal School	30.10	764.4	30.65	778.4	47.1	8.4	93	sw.	.....	.....	1	.....	n	ne.	ne.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	30.26	768.5	30.52	775.2	47.5	8.6	95	w.	.....	.....	1	.....	n	.....	.....	0	0	clear	M. Fénéon, Command't.
Avignon, Normal School	30.48	774.3	30.56	776 3	56.1	13.4	48	nnw.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	30.08	764.1	30.66	778.7	48.0	8.9	67	sse.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.34	770.5	30.61	777.5	50.4	10.2	82	w.	.....	.....	1	.....	10	.....	w.	0	0	covered	M. Frère Eugène Marié
Besançon, Normal School	29.70	754.4	30.71	779.9	45.7	7.6	91	nnw.	.....	.....	1	.....	cn	.....	se.	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	30.38	771.7	30.65	778.6	49.1	9.5	67	nne.	.....	.....	1	.....	0	.....	.....	0.004	0.1	clear	M. Rayet, Director.
Bourges, Normal School	30.13	765.2	30.70	779.7	47.1	8.4	91	s.	.....	.....	1	.....	k	.....	s.	0	0	.....	M. Malet, Director.
Brest, Naval Observatory	30.43	772.8	30.67	779.0	52.5	11.4	93	w.	.....	.....	1	.....	10	.....	w.	0.020	0.5	.....	M. de Kermaréc, Dir.
Caen, Normal School	30.48	774.1	30.56	776.1	51.1	10.6	87	ne.	.....	.....	1	.....	10	.....	e.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.28	769.1	30.61	777.6	49.8	9.9	81	calm	.....	.....	0	.....	10	.....	.....	0	0	covered	M. Jadot, Director.
Charleville, Normal School	30.04	762.9	30.56	776.1	47.8	8.8	76	w.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.25	743.0	30.65	778.4	52.2	11.2	55	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.80	756.9	30.69	779.4	42.8	6	86	n.	.....	.....	1	.....	fg	.....	.....	0	0	foggy	M. de Villemontée, Dir.
Commercy, Normal School	29.75	755.7	30.65	778.4	47.3	8.5	77	w.	.....	.....	1	.....	10 n	w.	w.	0	0	covered	Dr. Coulet, Director.
Gap, Normal School	28.00	711.2	30.63	778.1	44.6	7	85	calm	.....	.....	0	.....	1	.....	.....	0	0	.....	M. Jeanginard, Director.
Grenoble, Normal School	29.86	758.5	30.67	778.9	49.6	9.8	56	nnw.	.....	.....	1	.....	cn	.....	.....	0	0	.....	M. Kina, Director.
Guéret	29.03	737.4	30.61	777.4	46.4	8	72	se.	.....	.....	1	o	o	.....	.....	0	0	.....	M. Ablard, Director.
Lamballe, Normal School	30.50	774.6	30.78	781.7	52.9	11.6	78	w.	.....	.....	2	.....	5	.....	w.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	30.02	762.4	30.60	777.1	52.2	11.2	66	nnw.	.....	.....	1	o	o	.....	.....	0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.57	776.5	30.67	779.1	52.2	11.2	77	w.	.....	.....	1	.....	10	.....	w.	0	0	clear	M. Chauvin, Director.
Lyon, St. Genis-Laval	29.60	751.8	30.71	780.1	40.6	4.8	90	ne.	.....	.....	1	.....	fg	.....	.....	0	0	covered	Lt. T. Carré, Director.
Mans, Normal School	30.38	771.6	30.70	779.8	44.2	6.8	95	w.	.....	.....	4	.....	10	.....	.....	0	0	dense fog	M. André, Director.
Marseille, Observatory	30.27	768.8	30.54	775.8	58.1	14.5	37	w.	.....	.....	0.1	.....	0	.....	.....	0	0	covered	M. Piboën, Director.
Montlouis	25.29	642.4	30.13	765.4	42.8	6.0	34	w.	5.6	2.5	.....	.....	0	.....	.....	0	0	.....	M. Stephan, Director.
Montpellier, Normal School	30.44	773.1	30.57	776.5	56.5	13.6	57	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	M. Garcin, Director.
Nancy, Normal School	29.80	756.8	30.60	777 2	46.8	8.2	70	ssw.	.....	.....	1	.....	n	.....	.....	0	0	clear	M. Garcin, Director.
Nantes, Observatory	30.56	776.2	30.73	780.6	50.9	10.5	77	wnw.	.....	.....	0–1	.....	10 kn; n	.....	wnw.	0.016	0.4	.....	M. Hasse, Director.
Perpignan, Observatory	30.51	774.9	30.62	777.8	54.3	12.4	50	se.	5.6	2.5	.....	.....	0	.....	.....	0	0	.....	M. Larocque, Director.
Pic-du-Midi, Summit	21.56	547.7	.....	.....	34.5	1.4	.....	ene.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.54	750.2	30.64	778.2	50.0	10	64	nw.	.....	.....	1	1	1	nw.	nw.	0	0	clear	M. Tailieu.
Puy de Dôme Obs'y, Summit	25.63	651.0	.....	.....	41.2	5.1	71	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.62	777.8	30.65	778.6	55.4	13.0	73	nne.	.....	.....	2	.....	2	.....	nne.	0	0	¼ covered ...	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.48	774.2	30.71	780.0	53.6	12	74	sw.	.....	.....	1	.....	5	.....	e.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	28.37	720.6	30.57	776.5	48.6	9.2	50	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.60	777.2	30.65	778.4	51.4	10.8	82	wsw.	.....	.....	3	.....	10	wsw.	.....	0	0	covered	M. Mouillot.
Saint Lô	.....	.....	.....	.....	48.9	9.4	89	w.	.....	.....	1	.....	10	.....	w.	0	0	covered	M. Delapianche, Dir.
Saint Maur, Observatory	30.45	773.5	30.62	777.7	53.4	11.9	72	sw.	.....	.....	1	.....	9	.....	w.	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.93	760.1	30.66	778.8	49.8	9.9	70	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Baillaud, Director.
Tours	30.49	774.4	30.67	778.9	54.3	12.4	69	sw.	.....	.....	1	.....	5	sw.	nw.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	30.11	764.9	30.61	777.4	52.5	11.4	73	nw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.50	774.6	30.65	778.4	50.5	10.3	74	ne.	7.8	3.5	.....	.....	0	.....	.....	0	0	clear	M. Cartier, Director.
GERMAN.																			
Ansbach	29.04	737.7	30.54	775.8	44.8	7.1	81	w.	.....	.....	4	.....	10	w.	.....	0.035	0.9	.....	Prof. Jnedt.
Bamberg	29.61	752.1	30.47	773.8	44.6	7.0	93	calm	.....	.....	0	.....	9	.....	.....	0.039	1.0	.....	Prof. Dr. Hoh.
Berlin	30.08	763.9	30.22	767.6	48.2	9.0	83	w.	.....	.....	5	.....	10	.....	.....	0.008	0.2	.....	Meteorological Institute.
Breslau	29.78	756.5	30.32	770.1	44.6	7.0	79	w.	.....	.....	3	.....	10	.....	.....	0.047	1.2	.....	Royal University ...
Carlsruhe	30.11	764.8	30.59	777.0	47.5	8.6	76	sw.	.....	.....	4	.....	10	sw.	.....	0	0	.....	Albert Senz.
Cassel	29.60	751.8	30.32	770.0	49.6	9.8	78	ssw.	.....	.....	4	.....	7	sw.	.....	0.008	0.2	.....	Dr. H. Möhl.
Frankfort-on-the-Main	30.09	764.3	30.47	774.0	48 9	9.4	86	sw.	.....	.....	1	.....	10	.....	.....	0.020	0.5	.....	Physical Society.
Friedrichshafen	29.12	739.7	30.61	777.6	44.2	6.8	75	sw.	.....	.....	2	.....	0	.....	.....	0.102	2.6	.....	Wilhelm, Chief Tel.
Hamburg	30.05	763.3	30.14	765.6	46.8	8.2	100	w.	.....	.....	7	.....	10	.....	.....	0.016	0.4	rain & fog ...	E. Preller.
Kiel	30.04	763 1	30.06	763.5	46.2	7.9	95	w.	.....	.....	6	.....	10	.....	.....	0.028	0.7	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.90	759.5	30.33	770.4	50.0	10.0	74	wsw.	.....	.....	4	.....	9	wsw.	.....	0.043	1.1	.....	H. Leppig, Asst.
Magdeburg	30.06	763.5	30.25	768.4	49.6	9.8	83	w.	.....	.....	3	.....	10	w.	.....	0	0	.....	Dr. Assmann.
Memel	29.81	757.1	29.85	758.3	35.8	2.1	100	wsw.	.....	.....	5	.....	10	.....	.....	.....	.....	rain & fog ...	Issermann.
Munich	28.69	728.7	30.59	776 9	44.2	6.8	74	nw	.....	.....	2	.....	2	sw.	.....	0.068	0.2	.....	Central Station.
Neufahrwasser	29.97	761.2	29.98	761.6	46.8	8.2	86	sw.	.....	.....	3	.....	10	.....	.....	0.083	2.1	light rain	A. Lothes.
Neustadt, Palatinate	29.97	761.2	30.50	774.8	49.5	9.7	74	w.	.....	.....	5	.....	6	w.	.....	0.409	10.4	.....	Dicknether.
Stuttgart	29.58	751.4	30.50	774.7	49.1	9.5	74	w.	.....	.....	1	.....	10	.....	.....	0.016	0.4	raining	Prof. Dr. Schoder.
Wustrow	30.01	762.3	30.04	762.9	41.0	5.0	98	sw.	.....	.....	5	.....	10.	.....	.....	0.039	1.0	foggy	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.96	761.0	30.35	771.0	47.5	8.6	.....	n.	.....	.....	3.5	o	2 k	.....	.....	0	0	.....	Schmidt & Wourtisch.
INDIAN.																			
Kurrachee	29.99	761.8	30.04	763.0	79.4	26.3	37	sw.	13.0	5.8	.....	.....	7	s.	.....	0	0	d. clouds	
Deesa	29.49	749.0	29.96	761 1	82.4	28.0	13	nnw.	12.0	5.4	.....	.....	2	w.	.....	0	0	d. clouds	
Bombay	29.86	758.3	29.89	759.3	79.4	26.3	66	nw.	21.0	9.4	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.01	711.5	29.82	757.5	91.8	33.2	18	wnw.	2.0	0.9	.....	.....	2	wnw.	.....	0	0	d. clouds	
Belgaum	27.34	694.6	29.83	757.8	86.8	30.4	17	nne	5.0	2.2	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.24	742.6	30.01	762.2	63.6	17.6	43	w.	2.0	0.9	.....	.....	2	.....	.....	0	0	blue sky	
Roorkee	29.04	737.6	29.96	761.1	66.8	19.3	33	w.	3.0	1.3	.....	.....	6	w.	.....	0	0	.....	
Agra	29.42	747.2	30.00	761 9	71.2	21.8	30	nw.	4.0	1.8	.....	.....	4	.....	w.	0	0	d. clouds	
Nagpur	28.82	732.0	29.84	758.2	89.7	32.1	20	calm	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Jubbulpore	28.59	726.2	29.97	761.2	73.8	23.2	20	ne.	4.0	1.8	.....	.....	2	ne.	.....	0	0	d. clouds	
Lucknow	29.58	751.3	29.97	761.2	66.3	19.1	26	wnw.	8.5	3.8	.....	.....	4	ne.	.....	0	0	d. clouds	
Allahabad	29.64	752.8	29.96	760.9	70 0	21.1	36	nnw.	2.0	0.9	.....	.....	1	w.	.....	0	0	d. clouds	
Patna	29.70	754.5	29.89	759.3	71.1	21.7	29	w.	7.5	3.4	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.90	708.5	29.96	761.0	65.5	18.6	31	wnw.	16.2	7.2	.....	.....	0	.....	.....	0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.80	756.9	29.88	759.0	83.4	28.6	49	ese.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.88	759.0	29.91	759.6	80.0	26.7	35	nnw.	0.5	0.2	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.73	755.1	29.85	758.2	72.6	22.6	30	wsw.	1.2	0.5	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.81	757.2	29.90	759.5	76.1	24.5	76	w.	2.8	1.2	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.50	749.4	29.85	758.2	69.2	20.7	60	ne.	2.0	0.9	.....	.....	4	.....	e.	0	0	blue sky	
Jeypore	28.53	724.7	30.00	762.1	71.7	22.1	17	nw.	7.5	3.4	.....	.....	7	nw.	.....	0	0	d. clouds	
Bellary	28.39	721.1	.....	.....	90.0	32.2	26	e.	8	3.6	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.69	754.1	.....	.....	89.3	31.8	37	e.	2.	0.9	.....	.....	0	.....	.....	0	0	blue sky	
ITALIAN.																			
Udine	30.10	764.5	30.52	775.2	50.4	10.2	40	sw.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	30.00	762.0	30.53	775.4	47.8	8.8	60	w.	1.8	0.8	.....	.....	0	.....	.....	0	0	.....	Prof. Schiapparelli.
Padua	30.42	772.7	30.54	775.6	45.5	7.5	70	nw.	1.3	0.6	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.58	751.2	30.50	774.8	46.8	8.2	61	ne.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	30.32	770.2	30.52	775.2	55.2	12.9	46	sw.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.57	725.7	30.54	775.7	44 4	6.9	38	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.50	774.8	30.56	776.1	47.1	8.4	65	nw.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	30.22	767.7	30.48	774 3	55.4	13.0	40	wsw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	30.35	771.0	30.44	773.2	51.3	10.7	46	wnw.	6.3	2.8	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	30.25	768.3	30.43	772.9	54.7	12.6	30	n.	1.8	0.8	.....	.....	0	.....	.....	0	0	.....	Prof. P. Tachini.
Lecce	30.12	765.1	30.38	771.7	49.6	9.8	57	n.	17.4	7.8	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.49	749.1	30.41	772.4	50.0	10.0	74	wnw.	6.9	3.1	.....	.....	0	.....	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.22	767.7	30.42	772.7	57.2	14.0	59	wnw.	.....	.....	2	.....	2	.....	.....	0.669	17.0	.....	Prof. A. Pacinotti.
Palermo	30.13	765.2	30.38	771.7	55.4	13.0	58	ne.	5.6	2.5	.....	.....	1	ne.	.....	0.295	7.5	.....	Prof. G. Caccatore.
Syracuse	30.25	768.3	30.30	769.5	54.0	12.2	60	ne.	37.8	16.9	.....	.....	8	.....	.....	0.047	1.2	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.89	759.1	30.43	772.9	53 4	11.9	44	ne.	9.4	4.2	.....	.....	1	.....	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.48	571.1	.....	.....	29.5	— 1.4	59	ne.	.....	.....	2	.....	0	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.53	572.3	.....	.....	35.8	2.1	58	w.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.25	768.2	30.28	769.0	30.0	— 1.1	83	calm	.....	.....	0	.....	10 ck	.....	nw.	0.110	2.8	cloudy	H. Hattori.
Awomori	30.22	767.6	30.26	768.6	32.0	0.0	65	n.	11.8	5.3	.....	.....	10 ks;ck	.....	nw.	0.003	0.1	overcast	K. Ogawa.
Hakodate	30.27	768.9	30.28	769.2	26.6	— 3.0	88	nnw.	15.6	7.0	.....	0	0	.....	.....	0	0	clear	
Hamamatsu	30.15	765.8	30.18	766.5	41.4	5.2	91	calm	.....	.....	0	0	0	.....	.....	0	0	clear	
Kagoshima	30.15	765 8	30.16	766.1	54.5	12.5	71	ne.	.....	.....	4	.....	10 s	.....	.....	0.619	15.7	cloudy	G. Miyanonaza.
Kioto	30.10	764.5	30.28	769.2	35.0	1.7	90	nw.	1.6	0.7	.....	8cs;ck	0	w.	.....	0.059	1.5	fair	M. Tojima.
Kochi	30.18	766.6	30.21	767.3	51.1	10.6	74	e.	3.9	1.7	.....	.....	0	sw.	s.	0.109	4.3	overcast	K. Kusunose.
Miasaka	30.17	766.3	30.20	767.0	51.1	10.6	86	calm	.....	.....	0	.....	10ks;s	.....	e.	0.469	11.9	covered	K. Masusaki.
Nagasaki, I. M. Obs'y	29.93	760.2	30.14	765.5	48.0	8.9	83	ne.	1.2	0.5	.....	.....	10 s	.....	.....	0.520	13.2	overcast	S. Takehayashi.
Niigata	30.28	769.1	30.32	770.1	35.8	2.1	66	n.	4.5	2.0	.....	.....	10ck;s	.....	nw.	0	0	cloudy	M. Morita.
Nobiru	30.22	767.5	30.23	767.9	33.4	0.8	69	nw.	10.0	4.5	.....	0	1 s	.....	.....	0	0	fair	H. Midzushina.
Numazu	30.17	766.2	30.20	767.1	46.7	8.2	75	se.	.....	.....	2	.....	10 ks	.....	.....	0.004	0.1	cloudy	R. Kaneda.
Osaka	30.27	768.8	30.28	769.2	39.9	4.4	76	n.	10.4	4.6	.....	.....	10 s	.....	.....	0.090	2.3	cloudy	H. Omura.
Sakai	30.27	768.9	30.28	769.2	41.8	5.4	73	e.	.....	.....	4	.....	10 ks	.....	e.	0.354	9.0	cloudy	K. Yamawchi.
Sapporo	.....	.....	.....	.....	24.5	— 4.2	89	nw.	19.6	8.7	.....	.....	10	.....	.....	0	0	covered	
Tokei Obs'y, Yeddo	30.16	766.1	30.24	768.2	35.6	2.0	94	se.	1.8	0.8	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	30.21	767.4	30.27	768.8	42.0	5.9	71	n.	13.0	5.8	.....	.....	10ck;8	.....	w.	0.073	1.9	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.74	755 4	29.92	760.0	79.3	26.3	79	n.	4.5	2.0	.....	.....	10ks;ks	.....	s.	0.01	0.3	cloudy	Oliver & Figon.
MEXICAN.																			
Alauta	.....	.....	.....	.....	52	11.1	93	nw.	14.9	6.7	.....	.....	.....	.....	.....	.....	.....	.....	H. Diaz Pena.
Guanajuato	23.68	601.3	29.90	759 3	53.2	11.8	80	ssw.	inap.	inap.	.....	5 c	3 k	sw.	sw.	0.787	20.0	misty	Prof. Vicente Fernandez.
Leon	24.30	617.2	30.01	762.2	55.0	12.8	94	nnw.	.....	.....	1	4 c	6 ck	.....	.....	0.489	12.4	covered	Prof. M. Leal.
Mazatlan	29.74	755.4	30.01	762.1	66.0	15.6	74	nw.	11.0	4.9	.....	.....	10 n	.....	sw.	0	0	covered	F. Quijano, U. E.
Mexico, Central Obs'y	23.08	586.3	30.21	767.2	49.6	9.8	78	calm	0	0	.....	5 kn	5 c	.....	.....	0	0	covered	The Staff.
Morelia	24.20	614.6	30.10	764.5	52.9	11.6	69	se.	.....	.....	3	3 c	7 k	s.	se.	0.186	4.7	cloudy	M. Tena, M. D.
Pabellon	23.91	607.2	29.93	760.2	54.1	12.3	87	calm	0	0	.....	.....	10 n	.....	sw.	0.020	0.5	covered	
Puebla, Catholic Institute	23.43	595.1	30.26	768.5	44.6	7.0	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
Zacatecas	22.53	572.3	30.24	768.0	48.0	8.9	73	sw.	5.8	2.6	.....	4 c	0 k	sw.	w.	0.140	3.5	covered	I. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.43	772.9	30.43	772.9	48.0	8.9	.....	wsw.	.....	.....	6	.....	.....	.....	.....	0	0	.....	
Groningen	30.16	766.1	30.22	767.5	50.2	10.1	.....	sw.	.....	.....	5	.....	.....	.....	.....	0	0	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.39	771.8	30.39	771.8	46.9	8.3	93	wsw.	.....	.....	5	.....	8	.....	.....	0	0	very cloudy	H. van der Brink.
Utrecht	30.33	770.4	30.38	771.6	49.1	9.5	92	wsw.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	
Sub-series.																			
Batavia, Java	29.87	758.7	.....	.....	80.1	26.7	77	nnw.	0	0	.....	.....	4	.....	.....	0.24	6.	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.58	751.4	29.65	753.0	41.0	5.0	78	sw.	18	8	.....	.....	7	.....	.....	0.441	11.2	raining	
Brono	29.10	739.2	29.14	740.2	35.4	1.9	55	sw.	.....	.....	7	.....	10	.....	.....	0.295	7.5	snowing	
Christiania	29.38	740.2	29.53	750.0	33.1	0.6	96	sw.	4	2	.....	.....	10	.....	.....	0	0	foggy	
Gjæsvær	28.76	730.4	28.78	731.0	34.3	1.3	.....	sw.	.....	.....	6	.....	2	.....	.....	.....	.....	.....	
Lodingen	28 88	733.5	28.93	734.7	32.0	0.0	86	sw.	.....	.....	4	.....	10	.....	.....	0.236	6.0	snowing	
PORTUGUESE.																			
Angra, Azores	30.27	768.8	30.43	772.8	57.2	14.0	69	ese.	15.4	6.9	.....	.....	6	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.44	747.7	30.40	773.7	54.9	12.7	45	e.	10.1	7.2	.....	.....	0	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	29.94	760.4	30.02	762.6	66.2	19.0	73	e.	8.7	3.9	.....	.....	8	e.	.....	0	0	hazy	Capt. D. A. de Cunha.
Lisbon, Observatory	30.13	764.7	30.47	774.0	55.4	13.0	47	ene.	18.6	8.3	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.35	770.8	30.42	772.6	59.4	15.2	66	ene.	12.5	5.6	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	29.03	752.7	29.83	757.7	82.4	28.0	93	w.	1.8	0.8	.....	.....	8	.....	.....	0.315	8.0	.....	
Serra da Estrella	25.67	651.9	30.53	775.5	42.4	5.8	34	ese.	29.8	13.3	.....	.....	0	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.52	749.7	30.76	781.3	— 6.0	—21.1	86	ssw.	4	2	.....	0	0	.....	.....	0.008	0.2	.....	Major K. Lasarew.
Archangel	29.62	752.3	29.04	752.8	15.4	— 9.2	81	s.	22	10	.....	.....	10	.....	.....	.....	.....	snow-drift	Capt. Sseliwerstow.
Ashurada	30.44	773.1	30.34	770.7	42.1	5.6	83	wsw.	18	8	.....	.....	9 n	.....	.....	0.094	2.4	.....	
Astrakhan	30.61	777.4	30 52	775.3	23.4	— 4.8	58	se.	0	4	.....	.....	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.41	772.5	30.37	771.3	37.2	2.9	61	n.	18	8	.....	0	8 k	.....	.....	0	0	.....	
Barnaul	30.23	767.8	30.79	782.0	3.6	—15.8	82	sw.	4	2	.....	.....	10	.....	.....	inap.	inap.	.....	Meteorological Obs'y.
Bielosersk	29.43	747.4	29.93	760.1	20.1	— 6.6	83	sse.	10	7	.....	.....	10 s	.....	.....	0.138	3.5	snow-drift	
Dorpat	29.45	747.9	29.70	754.3	34.5	1.4	100	sw.	7	3	.....	.....	10 n	.....	.....	0.354	9.0	light rain	Observatory.
Ekaterinburg	29.50	750.8	30.61	777.0	14.7	— 9.6	78	w.	11	5	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y.
Elissawetgrad	29.92	759.9	30.40	772.1	27.0	— 2.8	76	wnw.	7	3	.....	.....	10 n	.....	.....	inap.	inap.	.....	
Irkutsk	28.92	734.5	30.82	782.7	— 8.9	—22.7	86	calm	.....	.....	0	.....	1	.....	.....	0	0	.....	
Kasalinsk	30.10	764.6	30.28	769.1	12.2	—11.0	70	nne.	2	1	.....	0	0	.....	.....	.....	.....	.....	
Kasan	30.27	768.9	30.57	776.5	9.9	—12.3	76	se.	18	8	.....	9 cs	0	.....	.....	0	0	.....	Observatory.
Kem	29.47	748.5	29.52	749.8	18.7	— 7.4	83	sw.	18	8	.....	.....	10	.....	.....	0	0	heavy cl'ds	
Kertch	30.30	769.7	30.32	770.2	29.5	— 1.4	90	calm	0	0	.....	.....	10 n	.....	.....	0	0	.....	Lagerio & Sastyrez.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
Russian.—Continued.																			
Kieff	29.65	753.0	30.33	770.4	21.7	— 5.7	72	ssw.	9	4		2 cs;cs	0			0	0	light clouds.	Observatory.
Koslov	29.84	757.9	30.42	772.6	16.5	— 8.6	90	sse.	13	6			10 s			0	0		
Libau	29.73	755.2	29.76	755.8	34.9	1.6	96	sw.	13	6			10			0.098	2.5	rain & fog	E. Quaas.
Lugan	30.08	764.1	30.28	769 1	27.5	— 2.5	80	se.	9	4			10			0	0		Meteorological Obs'y.
Moscow	29.69	754.1	30.21	767.3	19.9	— 6.7	86	s.	9	4		0	8 s			0.012	0.3		Meteorological Obs'y
Nikolaiev	30.34	770.5	30.41	772.4	27.9	— 2.3	77	calm	0	0		6 c	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.32	770.0	30.40	772.2	— 0.4	—18.0	51	calm	0	0			0			0	0		Iwanow.
Pekin, China	30.24	768.1	30.39	771.9	31.5	— 0.3	83	calm	0	0		0	8 n			0	0		Physical Observatory.
Petro-Alexandrovsk	30.10	764.5	30.48	774.1	25.5	— 3.6	67	ne.	5.6	2.5		10 cs	0			0	0		
Petrozavodsk	29.48	748.7	29.69	754.0	20.5	— 6.4	90	s.	22	10		10				0.059	1.5		Dr. Bergmann.
Pinsk	29.64	752.9	30.16	766.1	35.6	2.0	100	sw.	11	5			10 n			0.079	2.0	rain & snow	
Poti	30.22	767.7	30.24	768.2	48.2	9.0	78	w.	7	3		0	6 k			0.067	1.7		
St. Petersburg	29.67	753.5	29.68	753.9	25.9	— 3.4	89	s.	15	7			10 n			0.008	0.2	light snow	Central Physical Obs'y.
Samarkand	27.67	702.7	30.29	769.4	26.1	— 3.3	67	e.	13	6		7 cs	0						
Semipalatinsk	30.13	765.3	30.86	783.8	8.2	—13.2	80	s.	4	2			10			0	0		Major Lasarew.
Sevastopol	30.13	765.2	30.37	771.3	28.8	— 1.8	84	nne.	20	9			10 n			0	0		
Starol Bykhov	29.70	754.3	30.18	766.7	27.5	— 2.5	79	sse.	13	6			10					light snow	
Tashkend	28.60	726.3	30.43	772.9	15.8	— 9.0	67	ne.	7	3		0	1 k			0	0		Terch, A. M.
Tiflis	28.87	733.2	30.33	770.4	41.4	5.2	48	s.	2	1		2 c	0			0	0	light clouds	Physical Observatory.
Vernoe	27.85	707.3	30.60	777.2	13.1	—10.5	81	ne.	4	2		0	0						
Viatka	29.72	754.8	30.40	772 2	12.6	—10.8		s.	9	4			10					snow-drift	
Vladivostock	30.36	771.1	30.43	772.8	11.5	—11.4	36	n.	9	4		0	3 s			0	0		
Warsaw	29.74	755.3	30.17	766.4	37.9	3.3	98	wsw.	20	9			10			0.079	2.0	heavy clouds	Astronomical Obs'y.
Wilna	29.55	750.6	29.95	760.6	36.1	2.3	96	ssw.	9	4			10			0.134	3.4	heavy cl'ds,	Berg, Assistant.
Yeniseisk	30.51	775.0	30.85	783.7	—19.1	—28.4	76	calm	0	0			0			0	0		M. O. Marks.
Scottish.																			
Monach Lt			30.09	764.3	45	7.2	92	wnw.			7		10			0.4	10.	sleeting	J. Youngclause.
North Unst			29.62	752.3				nw.			8	4	6	nw.					Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.51	774.9	30.62	777 7	54.0	12.2	61	s.	2.7	1.2		0	0			0	0	hazy	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.58	776.7	30.64	778.2	57.9	14.4	58	se.	1.3	0.6		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.54	699.6	30.67	779.0	39.6	4.2	83	n.	6.3	2.8		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	28.33	719.5	30.63	777.9	52.3	11.3	31	e.	7.4	3.3		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.46	773.6	30.59	776.9	57.6	14.2	69	sw.	1.6	0.7		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.74	755.3	30.61	777.5	39.2	4.0	94	n.	2.8	1.3		2 cs	3 k	s.	s.	0	0	fair	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.59	751.5	30.49	774.5	57.9	14.4	90	e.	3.8	1.7			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.92	760.0	29.98	761.4	78.8	26.0	61	ne.	4.4	2.0		1 c	k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.30	769.5	30.40	772.1	58.6	14.8	53	e.	38.9	17.4		0	1		e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.93	760.3	30.02	762.6	72.3	22.4	90	se.	3.4	1.5		2 k	4 kn	se.	se.	0.256	6.5	cloudy	Enrique Gades, Chf Eng'r
Swedish.																			
Hapsranda	29.28	743.6	29.32	744.6	21.9	— 5.6	100	sw.			2		5			0.185	4.7		
Umea	29.34	745.3	29.39	746.6	32.2	0.1	79	sw.			2		1			0	0		
Hernosand	29.38	746.3	29.43	747.6	36.7	2.6	55	calm			0		0			0	0		
Stockholm	29.36	745.8	29.54	750.3	38.5	3.6	90	sw.			2		10			0	0		
Wisby	29.56	750.9	29.62	752.4	39.2	4.0	93	wsw.			4		10			0.024	0.6	raining	
Sub-series.																			
Upsala	29.42	747.3	29.51	749.5	35.2	1.8	100	ssw.	9.6	4.3			10			0.047	1.2	raining	S. G. Fineman.
Swiss.																			
Geneva	29.17	741.0	30.62	777.8	46.2	7.9	42	w.			1		0			0	0	clear	The Observatory.
Turkish.																			
Constantinople			30.45	773.4	35.1	1.7	67	n.	11	5.0			8		n.	0	0		The Observatory.
Valona			30.39	771.9	53.2	11.8		nw.			1					0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.02	762.6	57.2	14.0	81	sw.			2		10 n		sw.	0	0		Prof. C. V. A. van Dyck.
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	29.88	758.9	29.97	761.2	28	— 2.2	64	sw.	5	2.2		4 c	5 s	w.	w.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.19	741.4	29.90	759.4	16	— 8.9	67	w.	5	2.2		0	7 s		w.	0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.92	633.0	30.02	762.5	30	— 1.1	81	se.	1	0.4		0	3 s			0	0	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	26.93	684.0	29.97	761.2	28	— 2.2	67	ne.	4	1.8			10 n		nw.	inap.	inap.	light rain	B. O. Lenoir.
Atlanta, Georgia	28.96	735.6	30.18	766.6	43.0	6.1	74	w.	3	1.3		0	5 s			0	0	fair	H. C. Smyth.
Atlantic City, New Jersey	30.10	764.5	30.11	764.8	35	1.7	64	sw.	10	4.5		7 c;k	0	sw.		0	0	fair	Jas. M. Watson.
Augusta, Georgia	30.01	762.2	30.21	767.3	41.5	5.3	88	calm	0	0		4 c	0	w.		0	0	fair	John Henly.
Baltimore, Maryland	30.07	763.8	30.12	765.0	33	0.6	78	sw.	5	2.2			10 s		sw.	0	0	cloudy	Geo. W Felger.
Barnegat, New Jersey	30.06	763.5	30.08	764.0	33.0	0.6	88	w.	13	5.8		5 c	0			0	0	fair	G. A. Hill.
Behring Id., Behring Sea	30.60	777.2	30.62	777.7	35.1	1.7		se.	4	1.8		0	1 s			0	0	clear	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.52	724.4	30.25	768.3	27	— 2.8	88	calm	0	0			10 s			0.04	1.0	cloudy	A. Pritchard.
Benton, Fort, Montana	26.97	685.0	29.97	761.2	26	— 3.3	67	sw.	14	6.3		0	0			0.04	1.0	clear	S. Wheaton.
Billings, Montana	26.59	675.4			34	1.1	66	calm	0	0		3 c	2 s	n.	sw.	0	0	fair	T. Gibson.
Bismarck, Dakota	28.26	717.8	30.24	768.1	21	— 6.1	87	n.	3	1.3			10 s			inap.	inap.	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.00	762.0	30.03	762.7	34	1.1	72	w.	16	7.2		7 cs	0	w.		0	0	fair	J. T. Elker.
Boise City, Idaho	27 23	691.6	30.19	766.8	24.3	— 4.3	92	calm	0	0		0	5 s			0	0	fair	B. E. Light.
Boston, Massachusetts	29.80	756.9	29.96	761.0	28.0	— 2.2	64	sw.	12	5.4			10 s			0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.94	760.5	29.99	761.7	61.7	16.5	100	se.	6	2.7			fg.			0	0	dense fog	M. McCarty.
Buffalo, New York	29.14	740.1	29.94	760.5	25.8	— 3.4	84	sw.	20	8.9			10 s		sw.	0	0	cloudy	W. Finn.
Buford, Fort, Dakota	27.96	710.2	30.14	765.5	S	—13.3	80	se.	1	0.4			10 s			inap.	inap.	cloudy	F. A. Mellen.
Burlington, Vermont	29.57	751.1	29.88	758.9	23.6	— 4.7	88	s.	1	0.4			10 n		w.	0.06	1.5	light snow	D. N. Farnell.
Cairo, Illinois	29.70	754.4	30.12	765.0	41.8	5.4	94	sw.	8	3.6			10 s		sw.	0.17	4.3	threatening	W. H. Ray.
Cape Henry, Virginia	30.16	766.1	30.18	766.6	38	3.3	79	calm	0	0		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.09	764.3	30.12	765.0	44.0	6.7	76	s.	22	9.8			10 s		sw.	0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.40	746.7	30.10	764.5	47	8.3	100	nw.	20	8.9			fg.		nw.	0.07	1.8	dense fog	J. J. McLean.
Cedar Keys, Florida	30.14	765.5	30.16	766.1	57	13.9	74	e.	4	1.8		5 ck	sk.			0	0	fair	F. W. Mixer.
Champaign, Illinois	29.20	741.7	30.07	763.8	30.1	— 1.1	77	n.	15	6.7		4 k	0	n.		0	0	fair	L. A. Welsh.
Charleston, S. Carolina	30.11	764.8	30.17	766.3	53	11.7	80	e.	4	1.8		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.30	744.2	30.19	766.8	37.8	3.2	61	e.	1	0.4		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.36	745.7	30.22	767.6	41.5	5.3	78	n.	2	0.9			10 ks;fg		w.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.97	608.8	30.22	767.6	29.5	— 1.4	70	calm	0	0		5 c	0	w.		0	0	fair	E. McGovern.
Chicago, Illinois	29.30	744.2	30.05	763.3	27.0	— 2.8	79	w.	5	2. 2			10 n			0.05	1.3	light snow	J. Mitchell.
Chincoteague, Virginia	30.12	765.0	30.14	765 5	39	3.9	73	s.	9	4.0		3 cs	0	nw.		0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.36	746.2	30.07	763.8	40	4.4	89	s.	5	2.2			10 n		sw.	inap.	inap.	light rain	R. B. Watkins.
Cleveland, Ohio	29.21	741.9	30.00	762.0	29	— 1.7	88	sw.	12	5.4			10 n		w.	0.01	0.3	light snow	J. B. Newlin.
Coleman City, Texas	28.20	716.3	30.08	764.0	45	7.2	86	se.	1	0.4			10 s		se.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.13	739.9	30.03	762.7	33	0.6	88	s.	5	2.2			10 n			0.04	1.0	light snow	D. Cuthbertson.
Concho, Fort, Texas	28.04	712.2	30.06	763.5	48.0	8.9	71	n.	4	1.8			10 s			0	0	cloudy	J. McHone.
Davenport, Iowa	29.37	746.0	30.07	763.8	32	0.0	68	ne.	4	1.8		0	5 s;hz		nw.	0.02	0.5	fair	R. R. Martin.
Davis, Fort, Texas	25.10	637.5	30.06	763.5	40	4.4	67	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.24	717.3	30.05	763.3	38	3.3	82	sw.	13	5.8		7 k	0	sw.		0.24	6.1	fair	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
United States.—Cont'd.																			
Deadwood, Dakota	25.19	639.8	30.11	764.8	27	— 2.8	88	sw.	2	0.9	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	F. Willson.
Delaware Breakwater, Del.	30.10	764.5	30.12	765.0	32	0.0	78	sw.	6	2.7	.....	10 cs	0	sw.	.....	0	0	cloudy	T. S. Townsend.
Denison, Texas	29.28	743.7	30.12	765.0	48.0	8.9	77	s.	3	1.3	.....	.....	10 n	.....	.....	0.06	1.5	heavy rain	J. W. Byram.
Denver, Colorado	24.68	626.9	30.20	767.1	31.2	— 0.4	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.16	740.7	30.13	765.3	31	— 0.6	76	n.	6	2.7	.....	7 cs	0	nw.	.....	0.04	1.0	fair	F. W. Conrad.
Detroit, Michigan	29.22	742.2	29.98	761.5	29.0	— 1.7	77	sw.	12	5.4	.....	.....	10 n	.....	.....	inap.	inap.	light snow	E. R. Brace.
Dodge City, Kansas	27.42	696.5	30.16	766.1	29	— 1.7	67	n.	12	5.4	.....	0	3 s	.....	.....	0	0	clear	V. P. Temple.
Dubuque, Iowa	29.33	745.0	30.09	764.3	17.8	— 7.9	84	calm	0	0	.....	.....	10 s	.....	.....	0.14	3.6	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.34	745.2	30.15	765.8	9	—12.8	76	e.	14	6.3	.....	0	3 s	.....	nw.	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.17	740.9	30.01	762.2	60.2	15.7	87	s.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.28	642.1	30.18	766.6	11	—11.7	66	n.	3	1.3	.....	6 cs	0	.....	.....	0	0	fair	J. M. Clifford.
Eastport, Maine	29.84	757.9	29.91	759.7	17.0	— 8.3	67	sw.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	D. C. Murphy.
Elliott, Fort, Texas	27.24	691.9	30.14	765.5	38	3.3	72	s.	1	0.4	.....	.....	10 s	.....	s.	0	0	cloudy	J. O'Dowd.
El Paso, Texas	26.17	664.7	30.05	763.3	43.2	6.2	39	nw.	4	1.8	.....	5 c	2 s	nw.	nw.	0.03	0.8	fair	Peter Wood.
Erie, Pennsylvania	29.20	741.7	29.97	761.2	29	— 1.7	88	sw.	5	2.2	.....	0	10 n	.....	.....	0.10	2.5	light snow	George Heathcote.
Escanaba, Michigan	29.32	744.7	30.04	763.0	14.0	—10.0	64	nw.	3	1.3	.....	.....	9s;ks	.....	.....	0	0	cloudy	Frank Halwegler.
Fredericksburg, Texas	28.22	716.8	30.02	762.5	54	12.2	93	s.	7	3.1	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	E. O'C. MacInerney.
Galveston, Texas	30.01	762.2	30.06	763.5	62	16.7	93	se.	11	4.9	.....	.....	10 ks	.....	w.	0	0	cloudy	J. E. Mueller.
Grand Haven, Michigan	29.27	743.4	29.98	761.5	27.0	— 2.8	82	nw.	9	4.0	.....	.....	10 s	.....	nw.	0.06	1.5	cloudy	Robert C. Lord.
Grant, Fort, Arizona	25.18	639.6	30.04	763.0	35	1.7	61	ne.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	R. M. Crawford.
Hatteras, North Carolina	30.18	766.6	30.20	767.1	40	4.4	82	se.	4	1.8	.....	hz.	0	.....	.....	0	0	clear	N. C. Smith.
Helena, Montana	25.01	650.5	30.01	762.2	44	6.7	86	sw.	8	3.6	.....	4 ck	0	sw.	.....	0.02	0.5	fair	J. P. Sherry.
Henrietta, Texas	29.06	738.1	30.11	764.8	47	8.3	77	calm	0	0	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	S. W. Glenn.
Huron, Dakota	28.72	729.5	30.24	768.1	23	— 5.0	70	nw.	6	2.7	.....	.....	10 n	.....	.....	0.04	1.0	light snow	C. F. R. Wappenhans.
Indianapolis, Indiana	29.17	740.9	30.02	762.5	36.0	2.2	79	sw.	3	1.3	.....	.....	10 n	.....	sw.	inap.	inap.	light snow	I. A. Reed.
Indianola, Texas	29.99	761.7	30.02	762.5	55.1	12.8	96	e.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	D. J. Carr.
Jacksboro, Texas	28.90	734.0	30.14	765.5	54	12.2	66	se.	2	0.9	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	J. W. Smith.
Jacksonville, Florida	30.12	765.0	30.17	766.3	49	9.4	86	calm	0	0	.....	3 cs	fg.	.....	.....	0	0	clear	A. Schneider.
Keogh, Fort, Montana	27.38	695.4	30.06	763.5	22	— 5.6	73	ne.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	F. Z. Gosewisch.
Keokuk, Iowa	29.39	746.5	30.03	764.3	33.5	0.8	78	n.	1	0.4	.....	.....	10 k	.....	n.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.05	763.5	30.08	764.0	71.0	21.7	76	ne.	12	5.4	.....	0	6 ks	.....	ne.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.18	766.6	30.20	767.1	38	3.3	72	s.	12	5.4	.....	hz	0	.....	.....	0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.11	739.4	30.19	766.8	33.8	1.0	80	ne.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.28	743.7	30.12	765.0	22	— 5.6	73	nw.	8	3.6	.....	.....	10 s	.....	.....	0.10	2.5	cloudy	S. C. Emery.
Leavenworth, Kansas	29.20	741.7	30.15	765.8	32	0.0	78	nw.	9	4.0	.....	0	0	.....	.....	0.05	1.3	clear	A. W. Browne.
Lewiston, Idaho	29.16	740.7	30.04	763.0	37.0	2.8	89	calm	0	0	.....	5 k	5 s	sw.	sw.	0.17	4.3	cloudy	W. Bell.
Little Rock, Arkansas	29.83	757.7	30.16	766.1	52	11.1	72	calm	0	0	.....	.....	10 s	.....	sw.	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.71	754.6	30.11	764.8	52	11.1	93	s.	1	0.4	.....	.....	10 s	.....	se.	inap.	inap.	cloudy	T. S. Collins.
Louisville, Kentucky	29.46	748.3	30.04	763.0	45	7.2	76	sw.	10	4.5	.....	0	4 s	.....	w.	0.02	0.5	light rain	L. M. Dey.
Lynchburg, Virginia	29.41	747.0	30.13	765.3	34.5	1.4	53	sw.	1	0.4	.....	3 ck	0	nw.	.....	0	0	fair	Louis Duane.
Mackinaw City, Michigan	29.26	743.2	29.96	761.0	13.0	—10.6	70	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Macon, Fort, North Carolina	30.19	766.8	30.20	767.1	46.0	7.8	83	se.	6	2.7	.....	.....	10 s	.....	.....	0.11	2.8	cloudy	William Daly.
Madison, Wisconsin	28.98	736.1	30.07	763.8	19	— 7.2	70	n.	11	4.9	.....	0	0	.....	.....	0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.31	642.9	29.85	758.2	40	4.4	76	sw.	12	5.4	.....	.....	.....	.....	.....	.....	.....	.....	F. Burke.
McKavett, Fort, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10 s	.....	.....	0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.21	741.9	29.99	761.7	21	— 6.1	58	nw.	6	2.7	.....	.....	10 n	.....	.....	inap.	inap.	light rain	J. Gilligan.
Memphis, Tennessee	29.75	755.6	30.10	764.5	48	8.9	77	ne.	2	0.9	.....	.....	10 n	.....	.....	inap.	inap.	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.22	742.2	30.02	762.5	21	— 6.1	70	nw.	12	5.4	.....	7 cs	0	nw.	.....	0.03	0.8	fair	W. Line.
Missoula, Fort, Montana	26.60	675.6	30.03	762.7	33	0.6	81	ne.	2	0.9	.....	6 k	fg.	.....	.....	0.26	6.6	fair	J. H. Young.
Mobile, Alabama	30.11	764.8	30.15	765.8	53	11.7	80	ne.	1	0.4	.....	7c;cs	fg.	sw.	.....	0	0	fair	C. A. Read.
Montgomery, Alabama	29.91	759.7	30.15	765.8	48.5	9.2	69	n.	2	0.9	.....	9 k;hz	0	w.	.....	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.16	740.7	30.26	768.6	— 6	—21.1	100	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.06	738.1	30.13	765.3	35.5	1.9	65	sw.	9	4.0	.....	.....	10 n	.....	.....	0.04	1.0	light snow	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.26	590.8	29.88	758.9	3.0	—16.1	100	nw.	30	13.4	.....	.....	10n;fg	.....	nw.	0.35	8.9	light snow	S. W. Beall.
Nashville, Tennessee	29.56	750.8	30.17	766.3	41.5	5.3	78	se.	1	0.4	.....	.....	10 n	.....	w.	0.04	1.0	light rain	L. N. Jesunofsky.
New Haven, Connecticut	29.89	759.2	30.01	762.2	27.5	— 2.5	69	sw.	6	2.7	.....	.....	10s;hz	.....	.....	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.00	762.0	30.05	763.3	32	0.0	78	sw.	9	4.0	.....	.....	10 s	.....	sw.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.05	763.3	30.11	764.8	55.0	12.8	69	se.	2	0.9	.....	7 c	3 s	.....	se.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	29.98	761.5	30.03	762.7	32.1	0.1	72	sw.	14	6.3	.....	.....	10 s	.....	sw	0	0	cloudy	W. McGillivray.
New York, New York	29.86	758.4	30.05	763.3	32	0.0	78	sw.	10	4.5	.....	0	9 s	.....	.....	0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	30.15	765.8	30.18	766.6	37	2.8	82	sw.	8	3.6	.....	6 cs	2ks;hz	w.	sw.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.12	688.8	30.22	767.6	34.6	1.4	79	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	E. F. Brady.
Olympia, Washington T'y.	30.02	762.5	30.06	763.5	40.0	7.8	93	sw.	12	5.4	.....	9 k	0	sw.	.....	0.29	7.4	cloudy	J. Dascomb.
Omaha, Nebraska	28.93	734.8	30.20	767.1	30.8	— 0.7	78	n.	12	5.4	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	A. Pollak.
Ooglaamie, Alaska	30.41	772.4	30.43	772.9	—20.2	—29.0	.....	n.	10	4.5	.....	0	0	.....	.....	inap.	inap.	clear	P. H. Ray.
Oswego, New York	29.53	750.0	29.88	758.9	31.0	— 0.6	78	w.	16	7.2	.....	.....	10s	.....	nw.	inap.	inap.	cloudy	J. G. Linsley.
Palestine, Texas	29.50	750.8	30.14	765.5	49.0	9.4	71	e.	4	1.8	.....	.....	10 ks	.....	s.	0.01	0.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.12	765.0	30.15	765.8	50.1	10.1	74	n.	3	1.3	.....	5 cs	0	nw.	.....	0	0	fair	M. McGauran.
Philadelphia, Pa.	29.98	761.5	30.09	764.3	35	1.7	69	sw.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	E. M. Mattison.
Pike's Peak, Colorado	17.73	450.3	30.45	773 4	13	—10.6	86	sw.	.....	.....	4	0	0	.....	.....	0	0	clear	H. Hall.
Ploche, Nevada	23 98	609.1	30.14	765.5	34.4	1.3	81	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.20	741.7	30.06	763.5	32.0	0.0	78	sw.	5	2.2	.....	.....	10 n	.....	.....	0.01	0.3	light snow	W. A. Reid.
Poplar River, Montana	27.80	706.1	30.15	765.8	.....	.....	.....	se.	.....	.....	1	.....	10 s	.....	.....	0	0	cloudy	W. D. Maxwell.
Port Eads, Louisiana	30.12	765.0	30.13	765.3	52.8	11.6	93	ne.	6	2.7	.....	9 ck	0	w.	.....	0	0	cloudy	H. B. Boyer.
Port Huron, Michigan	29.23	742 4	29.96	761.0	25.2	— 3.8	84	sw.	10	4.5	.....	10 cs	0	.....	.....	0	0	cloudy	W. O. Bailey.
Portland, Maine	29.86	758.4	29.91	759.7	22.5	— 5.3	67	w.	11	4.9	.....	6 cs	0	w.	.....	0	0	fair	W. W. Elchelberger
Portland, Oregon	30.08	764.0	30.14	765.5	39.0	3.9	100	calm	0	0	.....	.....	fg.	.....	.....	0.10	2.5	dense fog	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	43	6.1	93	ne	9	4.0	.....	0	hz.	.....	.....	c	c	clear	F. S. Coburn.
Prescott, Arizona	24.70	627.4	30.06	763.5	34.0	1.1	85	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass.	29.96	761.0	29.99	761.7	29.5	— 1.4	97	sw.	10	4.5	.....	0	9 s	.....	w.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.10	764.5	30.11	764.8	59.5	15.3	65	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.72	754.9	30.09	764.3	48	8.9	93	nw.	3	1.3	.....	3 cs	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	29.21	741.9	29.92	760.0	27	— 2.8	77	w.	16	7.2	.....	4 ck	2 s	nw.	.....	0.01	0.3	fair	E. W. McGann
Roseburg, Oregon	29.61	752.1	30.18	766.6	50	10.0	77	nw.	4	1.8	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	J. J. Nanry.
Sacramento, California	29.99	761.7	30.07	763.8	49.8	9.9	86	s.	8	3.6	.....	0	7 s	.....	sw.	0	0	fair	J. A. Barwick
St. Louis, Missouri	29.46	748.3	30.10	764.5	41.0	5.0	100	nw.	7	3.1	.....	.....	10 s	.....	nw.	0.04	1.0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.23	767.8	30.27	768.8	— 6	—21.1	100	n.	4	1.8	.....	0	3 s	.....	n.	0	0	clear	A. P. Leavitt
St. Paul, Minnesota	29.19	741.4	30.13	765.3	21.0	— 6.1	84	nw.	5	2.2	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.31	744.5	30.28	769.1	—15	—26.1	78	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	C. B Dilley.
Salt Lake City, Utah	25.66	651.8	30.22	767.6	31	— 0.6	52	calm	0	0	.....	10 k	0	sw.	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.30	744.2	30.02	762.5	57.5	14.2	86	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	T. J. Kenan.
San Diego, California	30.02	762.5	30.09	764.3	51.4	10.8	93	nw.	3	1.3	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	A. C. Dobbins.
Sandusky, Ohio	30.27	768.8	29.99	761.7	31	— 0.6	88	w.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.02	762.5	30.05	763.3	34.0	1.1	79	w.	20	8.9	.....	8 k	0	w.	.....	0	0	cloudy	B. A. Blundon.
San Francisco, California	30.04	763.0	30.11	764.8	51	10.6	86	sw.	8	3.6	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.13	587.5	30.21	767.3	38	3.3	71	ne.	3	1.3	.....	5 c	3 s	sw.	sw.	0	0	cloudy	H. U. Jones.
Savannah, Georgia	30.09	764.3	30.18	766.6	51	10.6	72	ne.	2	0.9	.....	5 c	0	.....	.....	0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.09	662.7	29.94	760.5	44	6.7	68	sw.	23	10.3	.....	1 k	0	nw.	.....	inap.	inap.	clear	A. L. Mathews.
Shreveport, Louisiana	29.90	759.4	30.15	765.8	51	10.6	72	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.81	731.8	30.12	765.0	44.5	6.9	73	s.	4	1.8	.....	0	6 ks	.....	sw.	0	0	fair	W. M. Mattingly.
Silver City, New Mexico	24.14	613.1	29.99	761.7	34.0	1.1	71	calm	0	0	.....	3 ck	2 s	s.	.....	0	0	fair	N. D. Lane.
Sitka, Alaska	29.75	755.6	29.82	757.4	39.1	3.9	73	e.	7	3.1	.....	.....	10 n	.....	e.	0.93	23.6	sleeting	F. W. Fickett.
Smith, Fort, Arkansas	29.60	751.8	30.10	764.5	49.0	9.4	77	e.	2	0.9	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. B. Campbell.
Smithville, North Carolina	30.16	766.1	30.20	767.1	49	9.4	77	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	O. Parker.

STATIONS.	Barometer: Corrected for instrumental error and for temperature.		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	27.91	708.9	30.04	763.0	36	2.2	96	calm	0	0	.....	.....	10 s	.....	.....	0.63	16.0	cloudy	H. Clifford.
Springfield, Illinois	29.34	745.2	30.07	763 8	37	2.8	72	nw.	4	1.8	.....	hz.*	5 s	.....	w.	0	0	fair	T. B. Jennings.
Springfield, Missouri	28.61	726.7	30.12	765.0	45.5	7.5	80	.....	.....	.....	.....	.....	10 ks	.....	w.	0.11	2.8	cloudy	J. H. Bryce.
Starkville, Miss	29.63	752.6	30.13	765.3	54	12.2	62	sw.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	C. Dill.
Stevenson, Fort, Dakota	.....	.....	.....	.....	.....	.....	.....	s.	8	3.6	.....	.....	.....	.....	.....	.....	.....	.....	A. Schneider.
Stockton, Fort, Texas	26.92	683.8	30.05	763.3	40	4.4	92	w.	3	1.3	.....	2 cs	0	sw.	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass	29.92	760.0	29.98	761.5	28.0	— 2.2	77	w.	20	8.9	.....	.....	10 s	.....	w.	0	0	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.21	691.1	30.04	763.0	39	3.9	96	calm	.....	.....	0	4 cs	2 s	.....	.....	0	0	fair	J. T. Fitzgerald.
Toledo, Ohio	29.26	743.2	30.00	762.0	33	0.6	88	sw.	8	3.6	.....	.....	10 n	.....	sw.	inap.	inap.	light snow.	A. Buell.
Tucson, Arizona	27.56	700.0	30.04	763.0	34	1.1	82	se.	3	1.3	.....	1 c	0	.....	.....	0	0	clear	J. L. Whitesid
Umatilla, Oregon	29.69	754.1	30.07	763.8	30	— 1.1	94	se.	2	0 9	.....	1 k	1 s	sw.	.....	0.10	2.5	clear	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	41 4	5.2	67	sw.	.....	.....	1	.....	10 s	.....	sw.	0.03	0.8	cloudy	O. L. Pease.
Vicksburg, Mississippi	29.88	758.9	30.15	765.8	56.9	13.8	49	calm	0	0	.....	10 cs	0	w.	.....	0	0	cloudy	James Kenealy.
Visalia, California	29.68	753.9	30.06	763.5	46.2	7.9	79	s.	4	1.8	.....	7 cs	0	.....	.....	0	0	fair	O. D. Stewart
Washakie, Fort, Wyoming	24.35	618.5	30.11	764.8	14.2	— 9.9	83	w.	2	0.9	.....	.....	9 k	.....	.....	0	0	cloudy	T. M. Ambler.
Washington, D. C	30.00	762.0	30.12	765.0	32.4	0.2	78	sw.	3	1.3	.....	.....	10 s	.....	sw.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.05	661.7	30.18	766.6	24.5	— 4.2	64	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg
Williamsport, Pa	29.40	746.7	30.03	762.7	26	— 3.3	76	calm	0	0	.....	5 k	4 ks	nw.	.....	0.01	0.3	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.13	765.3	30.19	766.8	46	7.8	33	se.	1	0.4	.....	0	fg.	.....	calm	0	0	clear	Samuel A. Haney
Winnemucca, Nevada	25.64	651.2	30.14	765.5	35.5	1.9	87	sw.	4	1.8	.....	0	9 s	.....	.....	0	0	cloudy	J. Grover.
Yankton, Dakota	28.78	731.0	30.20	767.1	26	— 3.3	77	n.	5	2 2	.....	.....	10 ks	.....	.....	0.14	3.6	cloudy	J. H. Atfield.
Yuma, Arizona	29.88	758.9	30.03	762.7	47.8	8.8	94	calm	0	0	.....	0	8 s	.....	ne.	0	0	cloudy	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	21.97	558.0	.....	.....	54.0	12.2	77	calm	0	0	.....	.....	10ks:s	.....	e.	0	0	foggy	Joaquin Gomez.
Kingston, Jamaica, W. I	30.02	762.5	30.03	762.7	66	18.9	92	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	Robert Johnston.
Paramaribo, S. A	29.98	761.5	29.98	761.5	74	23.3	95	e.	.....	.....	2	6 k	8 ks	.....	e.	1.400	35.6	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	746.2	29.94	760.5	77	25.0	84	calm	.....	.....	0	.....	10 ks	.....	n.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.85	758.2	29.91	759.7	33	0.6	88	se.	.....	.....	2	8 cs	0	.....	.....	0.01	0.3	cloudy	W. J. Fisher.
St. Thomas, W. I	29.94	760.5	30.07	763.8	75	23.9	69	e.	.....	.....	.....	0	2 k	.....	e.	0.35	8.9	clear	Aug. Wallo.
Havana, Cuba	29.99	761.7	30.06	763.5	65.1	18.4	90	se.	1	0.4	.....	0	6 k	.....	ne.	0	0	fair	Benito Vines, S. J.
York Factory, B. A	30.20	767.1	30.26	768.6	—12.5	—24.7	74	nw.	13	5.8	.....	1 c	1 s	nw.	nw.	0	0	fair	Fortesque & Wood.

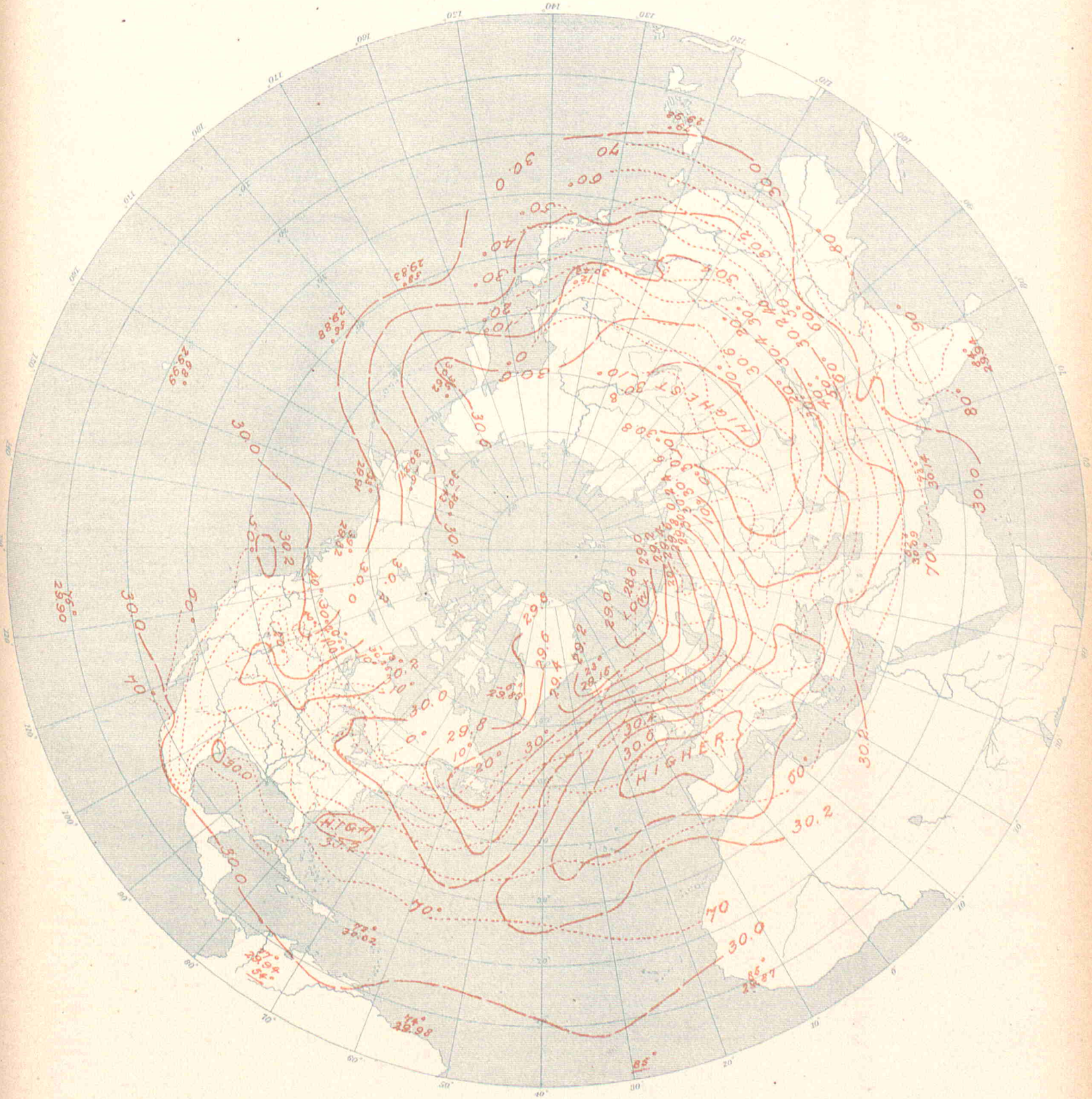
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell. Character.	Sea-swell. Direction from	Weather.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Condor, N. 33° 10′, E. 25° 10′	30.23	767.8	55.5	13.1	80	ne.	.....	.....	2-3	.....	9	ne.	.....	.....	.....	4	ne.	d. clouds.
H. M. Dock-Yard, Bermuda, W. I	30.10	764.5	61	16.1	68	nnw.	.....	.....	2-3	.....	6	nnw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Dido, N. 21° 14′, W. 71° 20′	30.09	764.3	74	23.3	.....	e.	.....	.....	4	.....	2	e.	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Fawn, N. 37° 34′, W. 31° 18′	30.40	772.1	58	14.4	81	ene.	.....	.....	3	.....	5	wsw.	.....	.....	.....	3	ene.	d clouds.
H. M. S. Monarch Port Said, Egypt	30.05	763.3	64	17.8	73	n.	.....	.....	1-2	.....	10	*	.....	.....	.....	.....	.....	overcast.
H. M. S. Minotaur, Vigo Bay, Spain	30.51	774.9	56	13.3	71	ene.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Tyne, N. 13° 41′, W. 46° 44′	30.00	762.0	76	24.4	81	e.	.....	.....	4	.....	4	ene.	.....	.....	.....	3	ene.	d. clouds.
H. M. Frigate Vanadis, N. 37° 21′, E. 11° 08′	30.36	771.1	58.6	14.8	74	ne.	.....	.....	3	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	29.93	760.2	20	— 6.7	?	sw.	8	3.6	.....	.....	10	.....	w.	0	0	.....	.....	cloudy.
U. S. S. Alliance, Cardenas, Cuba	30.05	763.3	76	24.4	100	ne.	.....	.....	3	.....	5	.....	.....	light	light	sm'h	.....	fair.
U. S. S. Kearsarge, Cartagena, U. S. C	29.88	758.9	75	23.9	90	ene.	.....	.....	2	.....	8	.....	sw.	.....	.....	.....	.....	fair.
U. S. S. Lancaster, Southampton, Eng	30.50	774.7	55	12.8	80	w.	.....	.....	4	.....	10	.....	w.	.....	.....	sm'h	.....	misty.
U. S. S. Nipsic, New York, N. Y	30.06	763.5	34	1.1	69	wsw.	.....	.....	5	.....	8	.....	.....	.....	.....	sm'h	.....	fair.
U. S. S. Portsmouth, Fort Royal, Martinique, W. I	30.03	762.7	76	24.4	100	ne.	.....	.....	2	.....	5	.....	e.	.....	.....	sm'h	.....	fair.
U. S. S. Powhatan, N. 35° 38′, W. 69° 56′	30.20	767.1	51	10.6	72	s.	.....	.....	1	.....	5	.....	.....	.....	.....	mod.	n.;w.	fair.
U. S. S. Saratoga, N. 38° 08′, W. 71° 08′	30.23	767.8	43	6.1	91	sw.	.....	.....	3	.....	5?	.....	sw.	light	light	sm'h	.....	clear.?
U. S. S. St. Louis, League Island, Pa	30.11	764.8	31	— 0.6	?	ssw.	12.7	5.7	.....	.....	5	.....	w.	0	0	.....	.....	fair.
U. S. S. Swatara, Hampton Roads, Va*	30.31	769.9	41	5.0	91	ssw.	.....	.....	4	8 cs	0	s.	.....	.....	.....	.....	.....	cloudy.
U. S. S. Tennessee, Aspinwall, Panama*	29.95	760.7	81	27.2	78	n.	14	6.3	.....	.....	8	.....	.....	0.06	1.5	mod.	n.	fair.
U. S. S. Vandalia, N. 15° 47′, W. 72° 13′ *	29.97	761.2	76	24.4	86	ese.	.....	.....	4	.....	5	.....	se.	.....	.....	sm'h	.....	fair.
U. S. S. Vantic, N. 25° 00′, W. 92° 10′	30.09	764.3	73	22.8	100	ese.	.....	.....	3	.....	8	.....	.....	.....	.....	sm'h	.....	cloudy.
S. S. British Crown, off Tuskar, Ireland†	30.52	775.2	51	10.6	.....	wnw.	.....	.....	6	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Lord Clive, N. 45° 10′, W. 46° 28′	.....	.....	.....	.....	.....	s.	.....	.....	5	.....	10	.....	ssw.	0	0	mod.	se.	cloudy.
S. S. Ohio, N. 40° 59′ W. 66° 49′†	29.92	760.0	.....	.....	.....	wsw.	.....	.....	5	.....	3	.....	w.	.....	.....	mod.	w.	fair.
S. S. Pennsylvania, N. 46° 17′, W. 47° 09′ †	29.61	752.1	46	7.8	?	sw.	.....	.....	3	.....	10	.....	.....	10 h'r	10 h'r	mod	sw.	overcast.
S. S. Circassian, N. 37° 55′, W. 73° 30′*	30.17	766.3	41	5.0	91	se.	.....	.....	4	.....	3	.....	s.	0	0	2	s.	d. clouds.
S. S. Nova Scotian, N. 43° 25′ W. 65° 00	30.04	763.0	28	— 2.2	.....	w.	.....	.....	4	.....	8	.....	wsw.	.....	.....	sli't	wsw.	cloudy.
S. S. Jason, N. 45° 40′, W. 43° 49′	.....	.....	51.8	11.0	.....	wnw.	.....	.....	5-6	.....	6 k	.....	.....	.....	.....	5	wnw.	cloudy
S. S. Alvo, Port au Prince, Hayti, W. I	30.01	762.2	80	26.7	.....	calm	.....	.....	0	6 c	0	calm	.....	0	0	.....	.....	fine.
S. S. Alene, N. 21° 08′, W. 73° 49′*†	30.07	763 8	.....	.....	.....	e.	.....	.....	3	.....	2	.....	e.	0	0	sm'h	ne.	fine.
S. S. Ailsa, N. 13° 25′, W. 78° 00′†	30.04	763.0	80	26.7	87	ne.	.....	.....	4	.....	.....	.....	ne.	0	0	mod.	ne.	fair.
S. S. Bolivia, Glasgow, Scotland	30.36	771.1	42	5.6	.....	nw.	.....	.....	4	.....	5	.....	.....	20 h'r	20 h'r	.....	.....	fair.
S. S. Dorian, N. 43° 22′, W. 54° 10′	29.79	756.7	40	4.4	.....	wsw.	.....	.....	7	.....	10	.....	w.	snow	snow	r'gh	w.	clearing.
S. S. Landaff City, N. 43° 28′, W. 53° 31′	.....	.....	44	6.7	.....	w.	.....	.....	6	.....	10	.....	wnw.	12 h'r	12 h'r	hv'y	sw.	cloudy.
S. S. Bothnia, N. 47° 58′, W. 34° 58′	30.28	769.1	52	11.1	86	sse.	.....	.....	5	.....	9	.....	s.	.....	.....	mod.	con	misty.
S. S. Gallia, N. 51° 30′, W. 10° 47′	30.51	774.9	44	6.7	67	nnw.	.....	.....	4	.....	5	.....	nnw.	.....	.....	.....	w.	fine.
S. S. Marathon, N. 41° 40′, E. 4° 46′	30.60	777.2	60	15.6	.....	n.	.....	.....	2	.....	1	.....	n.	0	0	.....	n.	fine.
S. S. Pavonia, N. 40° 34′, W. 70° 13′	30.01	762.2	45	7.2	76	wsw.	.....	.....	4	.....	2	.....	wsw.	0	0	sli't	wsw.	clear.
S. S. Canada, N. 47° 40′, W. 35° 20′	.....	.....	46.4	8	.....	sse.	.....	.....	4	ck	.....	se.	.....	.....	.....	.....	se.	covered.
S. S. Ville de Marseilles, Tortuga, W. I †	30.10	764.5	72	22.2	.....	s.	.....	.....	4	.....	3	.....	ene.	0	0	sm'h	.....	fair.
S. S. Wyoming, N. 41° 30′ W. 64° 00′	.....	.....	28	— 2.2	.....	w.	.....	.....	5	.....	.....	.....	nw.	0	0	long	wnw.	clearing.
S. S. Bohemia, N. 40° 28′, W. 71° 26′†	29.90	759.4	.....	.....	.....	nw.	.....	.....	5-6	.....	6 k	.....	wsw.	0	0	long	w.	
S. S. Vandalia, N. 48° 59′, W. 38° 37′	30.03	762.7	53.1	11.7	87	sse	.....	.....	8	.....	10	.....	sse.	4 h'r	4 h'r	8–9	s.	squally.
S. S. Wieland, N. 49° 35′, W. 12° 04′	30.73	780.5	.....	.....	.....	n.	.....	.....	3	.....	2	.....	n.	0	0	mod.	wsw.	fine.
S. S. City of Berlin, N. 46° 18′, W. 40° 55′	29.92	760.0	59	15.0	87	s.	.....	.....	6	.....	10	.....	sw.	2 h'r	2 h'r	mod.	sw.	overcast.
S. S. Mentmort, N. 53° 30′, W. 3° 42′	.....	.....	.....	.....	.....	wsw.	.....	.....	5	.....	8	.....	s.	0	0	sm'h	sw.	gloomy.
S. S. Archimedes, N. 33° 06′ W. 16° 07	29.95	760.7	.....	.....	.....	e.	.....	.....	6	.....	8	.....	e.	0	0	hv'y	ene.	dense haze.
S. S. Colorado, N. 24° 25′, W. 81° 40′ †	30.10	764.5	69	20.6	.....	ne.	.....	.....	4	.....	2	.....	ne.	0	0	mod.	ne.	clear.
S. S. Rio Grande, N. 28° 17′, W. 92° 07′†	30.01	762.2	78	25.6	.....	ese.	.....	.....	2	.....	2	.....	ese.	0	0	mod.	ese.	slightly cl'dy
S. S. San Marcos, off Florida Reefs, Fla	29.95	760.7	74	23.3	.....	e.	.....	.....	4	.....	1	.....	e.	0	0	sm'h	.....	fine.
S. S. Chalmette, N. 28° 55′, W. 89° 05′ †	30.07	763.8	54	12.2	.....	se.	.....	.....	5	.....	4	.....	se.	0	0	sm'h	.....	fair.
S. S. New York, N. 31° 15′, W 79° 00′†	30.23	767.8	70	21.1	.....	e.	.....	.....	3	.....	2	.....	e.	0	0	mod.	ne.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. Lone Star, N. 38° 13′ W. 74° 28′†	30.03	762.7	40	4.4		S.			3		1			0	0	sm'h		fine
S. S. Alleghany, Vineyard Sound, Mass†	30.10	764.5	34	1.1		w.			5		8		nw.	0	0			cloudy.
S. S. City of Merida, N. 19° 11′, W. 96° 08′*†	30.11	764.8	68	20.0		n,			2		10		n,	0	0	light	n.	fine.
S. S. City of Washington, Havana, Cuba, W. I†	30.13	765.3	80	26.7		var.			2		2		e.	0	0	sm'h		fine.
S. S. Denmark, N. 47° 53′, W. 38° 10′†	30.07	763.8	49	9.4		s.			7		10		ssw.	0	0	r'gh	ssw.	overcast.
S. S. England off Fire Island, N. Y.	30.04	763.0				w.			5		2			0	0	mod.	w.	clear.
S. S. Erin, N. 46° 22′, W. 35° 40′	30.26	768.6	54	12.2		s.			7		10		sw.	0	0	mod.	sw.	misty.
S. S. Helvetia, N. 45° 36′ W. 46° 00′	29.61	752.1	47	8.3		sw.			6		10		wsw.	5 h'r	5 h'r	long	s.	foggy.
S. S. The Queen, N. 41° 33′, W. 66° 10′	30.05	763.3	27	— 2.8		w.			4		2		w.	0	0	mod.	wnw.	clear.
S. S. America, N. 52° 02′, W. 2° 46′*	30.40	772.1	50.0	10.0	93	sw.			5–6		10		sw.	0	0	r'gh	sw.	covered.
S. S. Elbe, N. 47° 36′, W. 36° 42′	30.17	766.3	51	10.6		s.			6		10		s	0	0	r'gh	s.	misty.
S. S. Hermann, N. 41° 53′, W. 52° 10′	29.72	754.9	37.4	3.0	100	wnw.			5		10		nw.	10 h'r	10 h'r	6	var.	clearing.
S. S. Neckar, N. 50° 05′, W. 15° 32′	30.74	780.8	53.0	11.7	93	nw.			4		3		nw.	0	0	long	nw.	clear.
S. S. Weser, N. 44° 43′, W. 45° 03′	29.85	758.2				s.			4–6		8		s	2 h'r	2 h'r	mod.	s.	hazy.
S. S. Muriel, Dominica, Windward Islands, W. I.*	30.03	762.7	78	25.6		ne.			3		0					sm'h		clear.
S. S. Rhyniand, N. 43° 10′, W. 57° 00′			34	1.1	100	sw.			6		8		sw.	0	0	chop	sw.	cloudy.
S. S. Pennland, N. 49° 25′ W. 27° 37′	30.53	775.4	47	8.3	92	sse.			6		3		s.	12 h'r	12 h'r	mod.	nw.	clear.
S. S. Waesland, N. 46° 09′, W. 45° 15′	29.79	756.7	47	8.3		sso.			5		10		s.	0	0	mod.	sse.	dense fog.
S. S. Zeeland, N. 48° 01′, W. 37° 37′*†	30.12	765.0	51	10.6		s.			6		10		s.	6 h'r	6 h'r	short	sw.	rainy.
S. S. P. Caland, N. 40° 51′, W. 66° 50′	30.07	763.8	32.2	0.1	93	wnw.			4		4		wnw.			4	w.	fair.
S. S. Rotterdam, N. 49° 29′, W. 11° 41′*	30.64	778.3	53.2	11.8	95	nne.			4		9		n.			6	w.	misty.
S. S. Schiedam, N. 49° 19′ W. 19° 40′	30.64	778.2	57.7	14.3		calm			0		1		ne.	3 h'r	3 h'r	long	w.	fair
S. S. W. A. Scholten, Rotterdam, Netherlands*	30.36	771.1	48.4	9.1	100	nw.			7		8		wnw.	0	0			stormy.
S. S. Zaandam, N. 49° 45′, W. 31° 50′	30.18	766.0	57.9	14.4	76	s.			5		7 h		s.	1 h'r	1 h'r	4	s.	cloudy.
S. S. Caracas, La Guayra, Venezuela†	30.02	762.5	76	24.4	82	calm			0		8		nne.	0	0	mod.	nne.	fair.
S. S. Claudius, Port Antonio, Jamaica†	30.09	764.3	72.0	22.2	100	sw.			1		4		ese.	1 h'r	1 h'r			fair.
S. S. State of Florida, N. 45° 02′, W. 47° 43′			48	8.9		s.			6		1g.		w.	0	0	mod.	ssw.	cloudy.
S. S. Lepanto, N 41° 28′, W. 9° 40′			68	20.0		se.			2		2		s.	0	0	mod.	nw.	fair.
S. S. Marengo, N. 44° 52′, W. 44° 08′						sse.			6		4?		s.	2 h'r	2 h'r	r'gh	sse.	cloudy.?
S. S. Salerno, N 50° 35′, W. 0° 20′†	30.55	776.0	46	7.8		w.			5		10		w	2 h'r	2 h'r	sm'h	w.	raining.
S. S. Brooklyn, Portland, Maine			30	— 1.1		nw.			2				nnw.	0	0			cloudy.
S. S. Toronto, N. 45° 51′, W. 39° 16′*	30.19	766.8	51	10.6		wnw.			6		10			0	0	short	s.	hazy.
S. S. Lake Huron, N. 41° 20′, W. 57° 34′*	29.73	755.1	44	6.7		w.			6		8		w.	2 h'r	2 h'r	r'gh	w.	cloudy.
S. S. Olbers, N. 21° 27′, W. 22° 21′*†	29.85	758.2	70	21.1		w.			3		5		nw.	0	0	mod.	nw.	fine.
S. S. Phantyn, N. 41° 00′, W. 63° 41′									3		1		w.	0	0	sm'h	wsw.	clear.
S. S. Aries, N. 49° 10′, W. 73° 30′ *†	29.92	760.0				wsw.			5		10			0	0	long	wsw.	overcast.
S. S. Catherine Whiting, Montauk Point, L. I†	30.09	764.3	60	15.6		wsw.			6		l.z.			0	0	short	wsw.	fair.
S. S. Norman, N. 41° 09′, W. 71° 33′*†	30.05	763.3				wsw.			5				sw.	0	0	sm'h		clear.
S. S. Adriatic, N. 49° 30′, W. 23° 24′ †	30.74	780.8	46	7.8		e.			3		1		e.	0	0	mod.	ene.	clear.
S. S. Republic, N. 42° 23′, W. 57° 32′†	29.80	756.9	39	3.9	82	wnw.			6		9		nw.	8 h'r	8 h'r	6	wnw.	overcast
S. S. Iowa, N. 49° 20′, W. 32° 23′			48	8.9		se.			5		8		se.	0	0	long	se.	cloudy.
S. S. Auckland, N. 18° 26′, W. 38° 56′	30.08	764.0	73	22.8	72	ene.			4		4							blue sky.
S. S. Chamois, N. 18° 43′, W. 62° 30′	30.08	764.0	74.5	23.6	84	ne.			4		8							d. clouds.
Bk. Commewyne, N. 36° 37′, W. 22° 24′*	30.28	769.1	59.0	15.0	67	ne.			5		5							misty.
S S. City of Agra, N. 42° 08′, W. 32° 30′	30.54	775.7	57	13.9	75	se.			5		9							d. clouds.
S. S. Ptolmey, N. 25° 35′, W. 62° 30′	30.15	765.8	71	21.7	75	nne.			3		7							d. clouds.
Bk. Abbie Clifford, N. 27° 18′ W. 79° 45′†	30.14	765.5	72	22.2		ne.			1		2		ne.	0	0	mod.	n.	fair.
Bk. Aquidneck, N. 19° 13′, W. 39° 48′ *†	30.20	767.1				ese.			2				se.	0	0	light	e.	clear.
Bg. Alcira, Maracaybo, Venezuela, S. A.	30.00	762.0	81	27.2		une.			2		7?		ne.	0	0			clear?
Schr. Anna A. Holton, Tampico Mexico†	30.05	763.3	71	21.7		sw.			2		2		sw.	0	0	sm'h		fair.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.10	764.5	78	25.6		ene.			2		2		ene.	1 h'r	1 h'r			clear.
Schr. Anna Thormann, N. 31° 27′, W. 37° 58′*	30.36	771.2	64.6	18.1	71	ne.			4		6 k		ne.	lnap.	lnap.	mod.	e.	squally.
Bk. Aureola, Swansea, Wales*†	30.55	776.0	68	20.0		w.			3		5		wnw.	5 h'r	5 h'r			fair.
Bk. Achille F, Queenstown, Ireland†	30.63	778.0	47.5	8.6	81	wnw.			4		6		nw.	0	0	long	sw.	fair.
Bg. Annie R. Stoner, N 13° 45′ W. 61° 06′*†	30.00	762.0				ne,			2		0			0	0	sm'h		fair.
S. S. Burswell, Queenstown, Ireland*†	30.44?	773.2?	62?	16.7?		calm			0		2			2 h'r	2 h'r	sm'h		fine.
Bk. Bare, N. 0° 36′, W. 29° 00′			85	29.4		var.					2		ese.	0	0	sm'h	se.	fair.
Bk. Pilgrim, N. 19° 05′, W. 40° 48′†	30.10	764.5				e.			5		1		e.	0	0	mod.	e.	clear.
Bg Clara M. Goodrich, N. 38° 40′, W. 70° 15′†	30.02	762.5				wnw.			1		10		w.	0	0	r'gh	wnw.	cloudy.
Bk. Champion, N. 51° 00′, E. 1° 00′			48	8.9		sw.			5		10		nw.	24 h'r	24 h'r	sm'h	wsw.	hazy.
Bkt. C. S. Bushnell, Alicante, Spain	30.68	779.3				var.			2		0			0	0	sm'h	e.	fine.
S. Cornelius, N. 47° 26′, W. 14° 42′†	30.66	778.7	53.4	11.9		sw.			2		10			0	0	long	w.	hazy.
Schr. C. R. Flint, N. 35° 03′, W. 68° 17′*†	30.13	765.3	56	13.3		nnw.			2		1		nw.	0	0	r'gh	nw.	fair.
Bk. Commerce, Cadiz, Spain †	30.21	767.3	58	14.4		e.			8		0			0	0			fine.
S. S. Canonbury, N. 29° 10′, W. 60° 40′*†	30.19	766.8				var.			2		4		n.	2 h'r	2 h'r	sm'h		showery.
Bk. Chas. Stewart, N. 11° 16′, W. 37° 58′ †	30.11	764.8	76	24.4		ene.			6		6		e,	0	0	r'gh	ene.	hazy.
S. S. D. J. Foley, Colon, U. S. C!*†	29.95	760.7	80	26.7	100				5		5		ene.	0	0			fine.
Schr. Edith R. Seward, San Domingo, Hayti, W. I†	30.01	762.2	72	22.2		nne.			1		3		nne.	½ h'r	½ h'r	rg'h	ese.	clear.
S. E. J. Spicer, N. 39° 26′, W. 52° 00′	29.79	756.7	60	15.6	94	wsw.			6		10		wnw.	10 h'r	10 h'r	mod.	sw.	raining.
Bk. E. D. Bigelow, N. 33° 04′, W. 47° 20′ *†	30.10	764.5				s.			5		5		s.	0	0	mod.	se.	hazy.
Schr. F. E. McDonald, N. 29° 12′ W., 63° 01′†	30.14	765.5				n.			1		1		n.	0	0	long	e.	fine.
S. S. Foscolo, N. 36° 20′, W. 4° 28′†	30.57	776.5				e.			8		8?		e.	0	0	high	e.	clear.?
S. Festina Lente, N. 54° 28′, W. 10° 35′	30.41	772.4	41	5.0		wsw.			6		9		wsw.	0	0	long	var.	cloudy.
Bg. Gipsy Queen, Cardenas, Cuba, W. I*†	30.20	767.1	78	25.6		e.			3									fair.
Bk. Galeon, Cardiff Roads, Wales			52	11.1		w.			4									
S. Hedwig, N. 58° 49′, E 0° 50′	29.82	757.5	38.5	3.6	90	w.			8		7		w.	8 h'r	8 h'r	4	w.	squally.
Schr. Hattie Weston, Mayaro, Trinidad, W. I *†	29.99	761.7	80	26.7		ene.			2		8		e.	0	0	mod.	e.	cloudy.
Bk. Hattie G. McFarland, Pascagoula, Miss*†	30.20	767.1	60	15.6		ene.			1		4?		ne.	0	0			cloudy.?
Bk. Horace Scudder, N. 7° 08′, W. 34° 20′*†	30.00	762.0	78	25.6		ene.			3		8		ne.	0	0	long	ne.	fine.
Schr. Isabel Alberto, N. 26° 30′, W. 74° 32′†	30.05	763.3				s.			2		3		n.	0	0	high	n.	fair.
S. S. J. W. Wilson, Tuspan, Mexico*†	30.00	762.0	70	21.1		sw.			1		10			0	0	long	ne.	hazy.
S. J. W. Gildemeister, N. 50° 04′, W. 1° 02′	30.58	776.7	51.8	11	100	wsw.			4		10		wsw.	0	0	3	sw.	foggy.
Bg. L. & W. Armstrong, Pointea Pitre, Guadeloupe*†	30.02	762.5				calm			0		1		ene.	½ h'r	½ h'r			clear.
Bg. Lillian, N. 28° 25′, W. 67° 25′†	30.07	763.8	69	20.6		ne.			4		10		ne.	1 h'r	1 h'r	r'gh	var.	squally.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3				e.			1		4		ne.	0	0			fine.
S. S. Madrid, N. 36° 09′ W. 6° 38′*†	30.42	772.7	55	12.8	93	e.			9		2		e.	0	0	r'gh	e.	hazy.
Bk. Mary A. Troop, Sharpness Point, Eng*†	30.41	772.4				wsw.			0		3		wnw.	5 h'r	5 h'r			fair.
Bkt. Myrtle, St. Thomas, W. I						ene.			3		1		ene.	4 h'r	4 h'r			fair.
S. M. P. Grace, N. 43° 57′, W. 30° 35′ *	30.41	772.4	57	13.9		var.			1–3		6		sw.	0	0	long	nne.	hazy.
S. S. Mendoza, N. 22° 40′, W. 45° 29′*†	30.15	765.8				ese.			5		7?		ese.	0	0	sm'h		clear.?
Bkt. Norena, Matanzas, Cuba, W. I*†	30.15	765.8				wsw.			2		7		se.	1½ h'r	1½ h'r	mod.	ne.	squally.
Bk. Orpheus, N. 45° 50′ W. 12° 16′	30.79	782.1	54	12.2		e.			2		9 k					mod.	wnw.	foggy.
Bk. Ottawa, N. 34° 36′, W. 11° 40′ *	30.08	764.0	65	18.3		ene.			0		0			0	0			hazy.
Bk. Reindeer, N. 26° 25′, W. 71° 00′ *..	30.07	763.8				s.			4		5		se			long	nne	
S. Rudolph, N. 23° 03′, W. 49° 11′			76.6	24.8		se.			1		4		se.	0	0	mod.	e.	fair.
Bk. Rebus, N. 42° 54′, W. 13° 00′*	30.40	772.1	55	12.8		ne.			3		1		ne.	0	0	long	nw.	clear.
Bk. Sunbeam, N. 24° 18′, W. 35° 35′	30.13	765.3	71	21.7	74	ene.			3		8		ene.	2 h'r	2 h'r	mod.	ene.	cloudy.
Bk. Scud, N. 38° 08′, W. 72° 44′ *†	30.32	770.1	49	9.4		s.			4		1		sw.	0	0	short	nnw.	fine.
Bk. Usko, N. 33° 42′, W. 24° 20′*†	30.12	765.0				ne.			0		5		ne.	0	0	long	ne.	fair.
S. Vincenzo Accame, N. 41° 21′ W. 35° 12′*†	30.53	775.5	68.0	20		se.			5		2		se.	0	0	r'gh	sse.	clear.
Schr. Viola Reppard, N. 35° 15′, W. 74° 01′ †	30.13	765.3				se.			1		1		se.	0	0	long	ne.	clear.
Schr. Wm. Wiler, St. Thomas Island, W. I†	30.01	762.2				ne.			1		0			3 h'r	3 h'r			fine.
S. S. Wm. Woodbury, N. 59° 12′, W. 12° 21′*	30.14	765.5	40	4.4		wsw.			10		10		wsw.			high	w.	squally.
S. S. Colon, Aspinwall, Panama†	29.93	760.2	76	24.4		ne.			5		3		ne.	0	0	mod.	n.	clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2.—South Atlantic.																		
H. M. S. Starling, S. 7° 40′, E. 13° 03′	29.88	758.9	81.6	27.6	93	calm			0		7							d. clouds
U. S. S. Brooklyn, Montevideo, Uruguay*	29.93	760.2	67	19.4	79	nnw.	8	3.6			2		calm	0	0			fair.
U. S. S Galena, Colonia, Uruguay*	29.93	760.2	70	21.1	90	w.			1		2		w.			sm'h		clear.
S. S. Grecian, Buenos Ayres, La Pata*	29.98	761.5	72	22.2	80	wnw.			1		3		wnw.	0	0			clear.
S. S. Hevelius, S. 20° —′, W. 37° —′†	30.14	765.5	84	28.9		ne.			5		2		ene.	0	0			clear.
S. S. May Hulse, S. 58° 11′, W. 68° 52′	29.05	737.9	44	6.7	69	wnw.			6		10							drizzling.
Bk. Ceres, S. 13° 32′ W., 34° 29′ *	30.01	762.2	81.0	27.2	76	se.			4		4		se.	0	0	sm'h	se.	fair.
S. Armenia, S. 3° 12′, W. 32° 38′*	29.83	757.7	84	28.9	79	se.			2		1		se.	0	0	sm'h	sse.	clear.
Bk. Essex, S. 28° 00′, E. 5° 00′ *†	30.04	763.0	74.0	23.3		sw.			1		2		w.	0	0	sm'h	sse.	fine.
Bk. E. L. Pettingill, S. 19° 38′, W. 29° 10′*†	30.10	764.5	82	27.8		ne.			2		2		ene.	0	0	sm'h		
S. E. B. Sutton, S. 33° 06′, W. 47° 26′†	29.95	760.7	72.5	22.5	85	sw.			1		3		sw.	0	0	sm'h	sw.	fair.
S. Grecian, S. 33° 40′, W. 21° 52′†	29.97	761.2	77	25.0	91	nw.			4		9		var.	0	0	long	sw.	hazy.
S. Sovereign of the Seas, S. 51° 59′, W. 48° 29′ *†	29.68	753.9	45	7.2	100	n.			6		10		n.	8 h'r	8 h'r	r'gh	n.	heavy rain.
S. Titan, S. 38° 48′, W. 53° 57′ *†	29.95	760.7	65	18.3	89	s.			5		7		ssw.	0	0	sm'h	e.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay †	30.02	762.5	67	19.4		n.			3		5		n.	0	0			fair.
District No 3—North Pacific.																		
S. S. Mexico, N. 27° 06′, W. 114° 37 †	30.09	764.3	60	15.6	82	calm			0		0					sm'h		clear.
S. S. Belgic, N. 38° 16′, E. 164° 30′ *†	29.73	755.1	58	14.4	70	wsw.			3		8		w.	0	0	h'vy	nnw.	cloudy.
S. S. Coptic, N. 38° 07′, W. 178° 55′	29.88	758.9	54.5	12.5	87	nw.			4		9		nw.	6 h'r	6 h'r	sm'h	s.	squally.
S. S. Oceanic, N. 33° 55′, E. 137° 24′ *	30.15	765.8	53	11.7	80	nw.			5		5		sw.			sm'h	n.	fine.
S. S. Columbia, N. 43° 37′, W. 124° 55′ †	30.21	767.3	46.5	8.1	65	nne.			2		10		nne.			sm'h		hazy.
S. S. Oregon, Portland, Oregon†	30.13	765.2	40	4.4	91	calm			0									foggy.
S. S. Mississippi, N. 38° 42′ W. 123° 39′ †	30.10	764.5	50	10.0	79	n.			5		10		n.			light	nw.	light fog.
S. S. Willamette, Seattle, Wash. Ter†	30.21	767.3	42	5.6	91	sse.			2		10		sse.	0.54	13.7			rain & fog.
S. S. Ancon, San Francisco, Cal †	30.06	763.5	51	10.6	86	se.			1		10		se.					cloudy.
S. S. City of Chester, off Cape Mendocino, Cal *†	30.11	764.8	48	8.9	78	nw.			6		10		sw.	0	0			foggy.
S. S. Dakota, N. 44° 39′, W. 125° 09′*†	30.22	767.6	48	8.9	85	nw.			5		8		nw.	0	0	mod.	nw.	cloudy.
S. S. G. W. Elder, N. 42° 25′ W. 124° 55′ †	30.28	769.1	46	7.8	92	nnw.			2		0					light	sw.	clear.
S. S. Orizaba, N. 34° 08′, W. 119° 12′*†	30.04	763.0	58	14.4	90	sw.			2		fg.		w.	0	0	sm'h	w.	dense fog.
S. S. Queen of the Pacific, N. 41° 18′, W. 124° 36′†	30.15	765.8				nnw.			4		5?						nw.	cloudy.?
S. S. City of New York, Honolulu, Sandwich Ids†	29.99	761.7	70	21.1	80	ssw.			2		10		ssw.	10 h'r	10 h'r			cloudy.
S. S. City of Pekin, N. 26° 08′, E. 122° 08′ †	30.08	764.0	64	17.8	100	ne.			5		10		ne.			mod.	ne.	cloudy.
S. S. City of Rio de Janeiro, Manzanillo, Mexico			72	22.2	80	var.			1		8		nw.	0	0			cloudy.
S. S. Colima, Panama Panama†	29.98	761.5	80	26.7	91	n.			3		1		n.	0	0			clear.
S. S. San José, N. 19° 39′ W. 105° 18′†	29.91	759.7	78	25 6	82	nw.			2	5 c?			nw.			0	0	long	nnw.	overcast.?
H. M. S. Curacoa, Kobe, Japan	30.13	765.3	44.5	6.9	68	n.			1–2		3							d. clouds.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	30.04	763.0	67	19.4		calm			0		4							raining.
H. M. S. Swiftsure, N. 9° 44′, W. 124° 42′	29.90	759.4	76	24.4	100	nne.			4		8		ne.					showery.
U. S. Naval Hospital, Yokohama, Japan*	30.26	768.6	40.5	4.7	78	e.			1		2			1.08	27.4			clear.
U. S. S Independence, Mare Island, Cal	30.14	765.5	50	10.0	93	sw.			4		10			0	0			cloudy
U. S. S. Lackawanna, Honolulu, Sandwich Islands*	29.89	759.2	68	20.0	84	n.			1		8							cloudy.
U. S. S. Monocacy, Swatow, China	30.05	763.3	62	16.7	86	se.			2		5		e.					fair.
U. S. S. Palos, Tientsin, China*	30.34	770 6	26	— 3.3	100	sw.			1		10		calm					cloudy.
U. S. S. Ranger, Mare Id, Cal	30.07	763.8	50	10.0	93	ssw.			3		10			0	0			overcast.
U. S. S. Richmond, Hong Kong, China*	29.96	761.0	64	17.8	94	e.			2		10		e.	0	0			cloudy.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.96	761.0	70	21.1	95	ne.			1		10		ne.			sm'h		rainy.
S. S. Scotia, Hong Kong, China	30.02	762.5	63.5	17.5	89	e.			3		10							overcast.
S. Henry Failing, Wilmington, Cal†	30.05	763 3	60	15.6		var.					1		ne.	0	0	sm'h		fine.
S. St. Francis, N. 0° 11′, W. 124° 10′ †	29.89	759.2	76	24.4		se.			4		3		se.	½ hr	⅛ hr	mod.	nne.	fine.
Tamega, Macao, China	30.09	764.3	68.0	20.0	83	e.			3		10			0	0			overcast.
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.96	761.0	67	19.4	92	sse.			2		10							overcast.
H. M. S. Heroine, Sandy Point, Patagonia	29.57	751.1	50	10.0	93	wsw.			3		3		wsw.			sm'h		d. clouds
H. M. S. Kingfisher, S. 10° 07′, W. 106° 36′	29.94	760.5	75	23.9		sse.			4		6					4	se.	d. clouds
H. M. S. Lark, S. 36° 50′, E. 174° 49′	29.71	754.6	73.3	22.9	85	nne.			4		9					1	n.	squally.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.91	759.7	63	17.2		calm			0							sm'h		d. clouds.
H. M. S. Rocket, S. 52° 35′, W. 66° 45′	29.52	749.8	52	11.1	93	nw.			4		5		nnw.			3	wnw.	squally.
H. M. S. Sylvia, Sandy Point, Patagonia	29.55	750.6	50.7	10.4	79	w.			4–6		4							squally.
U. S. S. Essex, Callao, Peru	29.90	759.4	68	20.0	90	sse.			2		10		se.				se.	cloudy.
U. S. S. Iroquois, S. 35° 14′, W. 97° 13′	30.37	771.4	72	22.2	80	calm			0		2					long	s.	clear.
U. S. S. Onward, Callao, Peru*†	30.04	763.0	67	19.4	95	sse			3		10		n.					cloudy.
U. S. S. Pensacola, S. 30° 29′, W. 72° 25′*	29.90	759.4	61	16.1	88	s.			4		10			0	0	long	s.	cloudy.
British Merchant, S. 44° 10′, W. 132° 50′	29.71	754.6	52	11.1	73	sw.			4		4							d. clouds
Bk. Childwall, S. 25° 13′, W. 131° 53′ *	29.79	756.7	76	24.4		n.			3		10		s.	4 h'r	4 h'r	gentle	nnw.	raining.
Bk. Edmund Phiney, S. 36° 12′, W. 73° 50′ †.	29.33	745.0	47	8.3		w.			9		10			rain	rain	h'vy	w.	stormy.
Bk. Godeffroy, S. 30° 59′, W. 88° 42′ *	30.14	765.5	70.0	21.1	91	se.			2		6		se.	rain	rain	long	sw.	showery.
S. S. Australia, Sydney, N. S. W *	29.65	753.1	75	23.9	90	calm			0		1		n.	0	0			clear.
S. S. City of Sydney, S. 33° 56′ E. 153° 09′†	29.61	752.1	72	22.2	76	ne.			3		5		ne.	0	0	mod.	ne.	cloudy.
H. M. S. Gannet, S. 2° 12′, W. 79° 51′	29.89	759.2	74.5	23.6	93	calm			0		10							misty.
S. Geo. Stetson, S. 55° —′ W. 74° —′ *†	29.35	745.5	48	8.9	85	w.			7		7		w.			h'vy	w.	cloudy.
Bk. Warden Law, S. 38° 48′ W. 90° 38′*	30.38	771.6				ene.			1		2		sse.	0	0	long	sw.	fair
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 6° 10′, E. 39° 11′	29.86	758.4	83	28.3		var.			1		7		nne.					d. clouds.
H. M. S. Eclipse, N. 28° 59′, E. 50° 48′	29.99	761.7	62	16.7		w.			2		4		wsw.					d. clouds
H. M. S. London, Zanzibar, Zanzibar	29.93	760.2	82	27.8		wnw.			1		3		calm			1		d. clouds.
H M. S. Woodlark, Chakbar Bay, Arabia	30.04	763.0	72.5	22.5	71	ene.			1–2		7		sw.					raining.
S. S. Galatia, N. 8° 59′, E. 74° 09′†.	29.94	760.5	84	28.9	83	ne.			2		1		ne.	0	0	sm'h		fine.
Bkt. Josephine, S. 33° 17′, E. 27° 35′†	29.76	755.9	74	23.3	81	se.			3		2		sse.	0	0	long	ssw.	hazy.
S. Sacramento, S. 45° 00′, E. 66° 00′ *†	30.24	768.1	48	8.9	70	ssw.			4		10		sw.	0	0	high	sw.	cloudy.

International Chart I. February 22, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B. Hazen, Chief Signal Officer.
Signal Office, 1883.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 23, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.57	776.4	61.5	16.4	77	s.	.....	.....	6	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.58	776.7	57.2	14.0	67	nne.	.....	.....	2	.....	0	.....	.....	0	0	clear	Thève.
La Calle	.....	.....	30.41	772.4	58.3	14.6	90	nw.	.....	.....	4	.....	4	.....	.....	0	0	cloudy	Fonfréde.
Tunis	.....	.....	30.07?	763.7?	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.53	775.4	60.4	15.8	83	sw.	.....	.....	2	.....	2	.....	.....	0	0	fair	Pérès.
Tebessa	.....	.....	30.40	772.2	45.7	7.6	67	n.	.....	.....	1	.....	3	.....	.....	0.079	2.0	pretty fair	Dognon.
Geriville	.....	.....	.....	.....	50.0	10.0	41	nnw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Forfert.
Laghouat	.....	.....	30.48	774.2	57.2	14.0	33	nw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.40	772.2	70.2	21.2	30	calm	.....	.....	0	.....	3	.....	.....	0	0	pretty fair	Malau.
Australian.																			
Melbourne, Victoria	29.92	759.9	30.01	762.2	65.2	18.4	81	ssw.	10	4.5	.....	.....	10	.....	.....	0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.84	758.0	30.40	772.2	53.1	11.7	60	e.	.....	.....	4	.....	5	.....	.....	0	0	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	29.51	749.5	30.31	769.8	38.8	3.8	64	w.	8.1	3.6	.....	.....	8	.....	.....	0.157	4.0	.....	Dr. Wierzbiski.
Eperies	29.34	745.2	30.25	768.3	40.3	4.6	68	nw.	.....	.....	5	0	7 ks	.....	se.	0.039	1.0	.....	Julius Mikolik.
Gratz	29.17	741.0	30.46	773.7	46.0	7.8	35	nw.	.....	.....	5	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.67	728.2	30.16	766.0	36.7	2.6	91	nw.	.....	.....	2	.....	10	.....	.....	0.133	3.3	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	29.17	740.8	30.57	776.5	39.9	4.4	77	w.	.....	.....	2	.....	10	.....	.....	0.063	1.6	gloomy	The Staff.
Lemberg	29.13	739.9	30.16	766.0	37.0	2.8	67	nw.	.....	.....	4	.....	10	.....	.....	0.012	0.3	.....	Dr. T. Stanecki.
Neu Schmecks	26.75	679.4	30.29	769.3	30.2	— 1.0	78	calm	.....	.....	0	.....	9	.....	.....	0.122	3.1	.....	Dr. V. von Szontagh.
Pola	30.28	769.1	30.39	772.0	49.6	9.8	69	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.71	754.5	30.17	766.4	41.9	5.5	53	nw.	.....	.....	4	.....	0	.....	.....	0.142	3.6	light fog	Joseph Midlinszky, S. J.
Szegedin	29.97	761.3	30.26	768.6	47.8	8.8	63	w.	.....	.....	5	.....	5	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.29	769.4	30.39	771.9	47.8	8.8	73	calm	.....	.....	0	.....	1	.....	.....	0	0	.....	Royal Academy.
Vienna	29.76	755 8	30.50	774.7	43.2	6 2	49	nw.	.....	.....	4	.....	10	.....	.....	0.043	1.1	snowing	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.37	771.4	30.47	773.9	48.6	9.2	56	wsw.	19	8.5	.....	.....	3	.....	.....	0	0	blue sky	W. Boswell
Armagh, Observatory	.....	.....	.....	.....	45.9	7.7	73	sw.	18	8.0	.....	.....	3	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.79	782.1	46.0	7.8	69	w.	25	11.2	.....	.....	3	.....	.....	.....	.....	blue sky	John Hartnup.
Bolton, Sharples	30.21	767.3	30.78	781.8	45.9	7.7	61	w.	12	5.4	.....	.....	3	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	30.30	769.6	30.70	779.8	46.1	7.8	68	nw.	.....	.....	3	.....	4	.....	.....	0	0	d. clouds	McLandsborough & Preston
Bridgetown, Barbadoes	29.96	761.0	29.99	761.7	80.0	26.7	74	ne.	.....	.....	2	.....	8	.....	.....	.....	.....	overcast	Corpl. J. Surgenor, A. H. C
Cardington	30.40	772.1	30.52	775.2	50.2	10.1	58	nw.	.....	.....	0.6	.....	1	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E.	30.70	779.8	30.84	783.3	46.3	7.9	64	calm	.....	.....	0	.....	0	.....	.....	.....	.....	misty	Corpl. G. A. Pickles.
Falmouth, Observatory	30.66	778.7	30.90	784.8	46.9	8.3	70	sse.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	The Staff.
Fort Napier, Natal	27.38	695.4	29.62	752.3	87.0	30.6	46	s.	.....	.....	3	.....	6	.....	.....	.....	.....	.....	Corpl. F. Milner, A. H. C.
Freetown	29.64	752.8	29.87	758.7	85.0	29 4	75	c.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	30.70	779.8	30.74	780.8	40	7.8	85	sw.	.....	.....	3	.....	8	.....	.....	0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.43	772.9	30.48	774.2	69.5	20.8	92	.....	.....	.....	.....	.....	9	.....	.....	.....	.....	gloomy	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	30.40	772 1	30.66	777.2	45.8	7.7	67	wsw.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.67	779.0	30.85	783.6	45.9	7.7	57	w.	.....	.....	1	.....	0	.....	.....	.....	.....	misty	The Staff.
Guernsey	30.60	777.2	30.91	785.1	50.0	10.0	64	calm	.....	.....	0	.....	0	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S
Kew, Observatory	30.81	782.6	30.85	783.6	46.1	7.8	59	w.	19	8.5	.....	.....	1	.....	.....	.....	.....	blue sky	The Staff.
Leicester, Museum	30.52	775.2	30.78	781.8	48.0	8.9	62	nw.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	30.18	766.6	30.26	768.6	59.0	15.0	96	nw.	.....	.....	2	.....	2	.....	.....	0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.10	764.5	30.14	765.5	76.0	24.4	69	e.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	30.24	768.1	30.78	781.8	45.7	7.6	63	w.	.....	.....	4	.....	4	.....	.....	.....	.....	d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	30.61	777.5	30.83	783.1	46.9	8.3	66	wsw.	.....	.....	2	.....	3	.....	.....	.....	.....	blue sky	The Staff.
Plymouth	30.81	782.6	30.88	784.3	45.7	7.6	87	wnw.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.17	766.3	30.27	768.8	44.5	6.9	84	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	showery	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.00	762 0	30.07	763.8	39.8	4.3	60	ne.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	30.45	773.4	30.74	780.8	48.4	9.1	73	nnw.	.....	.....	3	.....	1	.....	.....	0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.69	779.5	30.72	780.3	44.8	7.1	78	w.	24	10.7	.....	.....	6	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.77	781.5	45.0	7.2	67	w.	.....	.....	.....	.....	10	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Stratfield Turgiss	30.64	778.2	30.86	783.8	49.5	9.7	69	w.	.....	.....	3	.....	5	.....	.....	.....	.....	blue sky	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	30.81	782.6	30.86	783.8	52	11.1	66	w.	.....	.....	4	.....	5	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.81	782.6	30.84	783.3	47.9	8.8	77	s.	19	8.5	.....	.....	6	.....	.....	.....	.....	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.95	760 7	30.34	770.6	55.6	13.1	54	wnw.	9.9	4.4	.....	1 c	0	.....	.....	0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	— 2	—18.9	.....	calm	0	0	.....	0	0	.....	.....	0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.99	761.7	30.04	763.0	4	—15.6	97	n.	4	1.8	.....	0	2 s	.....	sw.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.08	764.0	30.15	765.8	— 1	—18.3	100	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Cornwall	30.08	764 0	30.30	769.6	8.8	—12.9	88	w.	.....	.....	1	.....	10 s	.....	.....	0.030	0.8	d. clouds	Jas. Smith, M. A.
Dalhousie	30.12	765.0	30.18	766.6	7.0	—13.9	.....	calm	.....	.....	0	0	0	.....	.....	0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.18	766.6	30.20	767.1	9	—12.8	87	nne.	15	6.7	.....	.....	8 s	.....	n.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.11	739.4	30.02	762.5	4	—15.6	72	s.	16	7.2	.....	.....	10 n	.....	s.	.....	.....	light snow	James Stewart.
Fredericton	30.09	764.3	30.16	766.1	9.1	—12.7	76	nw.	1	0.4	.....	1 ck	0	.....	.....	0	0	light haze	Prof. Harrison, L. L. D.
Granton	29.23	742.4	30.46	773.7	4.7	—15.2	95	calm	0	0	.....	0	0	.....	.....	0	0	blue sky	Jas. Grant.
Halifax, N. S*	29.84	757.9	29.98	761.5	23	— 5.0	90	n.	6	2.7	.....	.....	10 s	.....	.....	0.020	0.5	cloudy	A. Allison.
Hamilton	30.07	763.8	30.50	774.7	11.7	—11.3	91	ne.	.....	.....	2	4 k	0	.....	ne.	0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	30.01	762.2	30.39	771.9	5	—15.0	79	nw.	4	1.8	.....	0	0	.....	.....	0.16	4.1	clear	A. P. Knight, M. A.
Montreal, Quebec*	30.09	764.3	30.32	770.1	9	—12.8	80	ne.	6	2.7	.....	.....	10 rs	.....	nw.	inap.	inap.	cloudy	C. H. McLeod, C. E.
Ottawa	30.10	764.5	30.38	771.6	1.9	—16.7	73	n.	.....	.....	1	0	0	.....	.....	0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.68	753.9	30.49	774.4	— 7	—21.7	58	n.	12	5.4	.....	0	0	.....	.....	0.03	0.8	clear	Rev. R. Mosley.
Peterboro	29.65	753.1	30.49	774.4	4.4	—15.3	100	calm	.....	.....	0	.....	.....	.....	.....	0.15	3.8	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.66	753.4	30.43	772.9	9	—12.8	100	n.	7	3.1	.....	0	0	.....	.....	0.10	2.5	clear	H. Morgan.
Port Stanley, Ontario	29.71	754.6	30.43	772.9	10	—12.2	91	n.	8	3.6	.....	0	0	.....	.....	0.02	0.5	clear	M. Payne.
Quebec, Quebec*	29.90	759 4	30.26	768.6	1	—17.2	75	n.	.....	.....	1	0	8 k	.....	n.	0	0	fair	Capt. Ashe, R. N
Rockliffe, Ontario*	29.93	760.2	30.47	773.9	— 8	—22.2	82	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.67	753.6	30.48	774.2	1	—17.2	91	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	
St. Andrews, N. B	29.98	761.5	30.05	763.3	16	— 8.9	100	nne.	7	3.1	.....	.....	10 n	.....	.....	0.10	2.5	light snow	
St. John, N. B	29.88	758.9	30.06	763.5	14	—10.0	100	ne.	14	6.3	.....	.....	10 s	.....	.....	0	0	overcast	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.12	765.0	23.0	— 5.0	.....	c.	.....	.....	7	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	29.05	737.9	30.48	774.2	— 2.8	—19.3	97	nw.	2	0.9	.....	0	0	.....	.....	0	0	blue sky	C. J. Macgregor, M. A.
Sydney, C. B*	29.98	761.5	30.05	763.3	9	—12.8	100	calm	0	0	.....	10 c	0	sw.	.....	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	30.06	763.5	30.49	774.4	7	—13.9	83	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	Magnetic Observatory.
Windsor	29.88	758.9	29.98	761.5	20.0	— 6.7	92	n.	4	1.8	.....	.....	10 n	.....	.....	0	0	overcast	Prof. W. H. Butler, M. A
Woodstock	29.32	744.7	30.53	775.4	1.0	—17.2	97	nw.	4.5	2.0	.....	0	0	.....	.....	0	0	blue sky	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.85	758.2	29.92	760.0	24	— 4.4	84	ne.	1	0.4	.....	2 ck	hz.	.....	.....	0.09	2.3	fair	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	OBSERVERS
CAPE COLONY.																			
Cape St. Francis Lt. House	29.77	756.1	29.80	756.9	72.0	22.2	89	w.	13.0	5.8	.....	0	8 ks	.....	.....	0	0	light haze	John Duthie.
Springbok Fontein	27.85	707.4	.....	.....	73	22.8	81	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	24.79	629.6	.....	.....	17.6	— 8.0	.....	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	snowy	
Tchang-kia-tchouang	30.41	772.3	30.56	776.1	34.0	1.1	100	ne.	.....	.....	1	.....	10	.....	.....	0	0	covered	R. P. Desurmont, S.J.
Zi-Ka-Wei, near Shanghai	30.33	770.4	30.35	771.0	34.9	1.6	87	wnw.	8.9	4.0	.....	.....	10	.....	.....	0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.11	764.7	30.15	765.9	42.1	5.6	69	nw.	31	14	.....	.....	7	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	30.36	771.1	30.38	771.6	41.5	5.3	85	wnw.	.....	.....	6	.....	2	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.31	744.4	29.35	745.5	— 2.6	—19.2	100	nw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	29.31	744.4	29.33	744.9	6.6	—14.1	.....	n.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.24	742.7	29.29	743.9	—14.8	—26.0	.....	s.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.06	738.0	29.10	739.1	33.4	0.8	83	sw.	.....	.....	7	.....	10	.....	.....	.....	.....	raining	A. O. Thorlacius.
Thorshavn	29.93	760.2	29.97	761.1	42.1	5.6	86	wnw.	22	10	.....	.....	10	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	30.17	766.2	30.26	768.5	41.5	5.3	91	wnw.	.....	.....	6	.....	7	.....	.....	.....	.....	rain & sleet	Loerer Oesterbol.
Upernavik, Greenland	29.33	744.9	29.37	746.1	—16.1	—27.7	.....	e.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	
FRENCH.																			
Agen, Normal School	30.13	765.4	30.81	782.5	47.1	8.4	95	calm	.....	.....	0	.....	fg	.....	.....	0	0	foggy	M. Labroue, Director.
Alençon, Normal School	30.32	770.2	30.87	784.2	46.8	8.2	76	n.	.....	.....	1	cs	.....	s.	s.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	30.58	776.6	30.85	783.5	41.9	5.5	50	nw.	.....	.....	2	c	0	.....	.....	0	0	.....	M. Fénéon, Command't.
Avignon, Normal School	30.49	774.5	30.57	776.5	55.4	13	58	nnw.	..	.....	6	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	30.26	768.5	30.83	783 1	51.4	10.8	59	nne.	.....	.....	2	0	8 kn	.....	nnw.	0.020	0.5	very cloudy	M. Saillard, Director.
Beauvais, Normal School	30.61	777.6	30.89	784.7	48.2	9	61	nnw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Frère Eugène Marié
Besançon, Normal School	29.82	757.5	30.75	781.0	55.4	13	66	nw.	.....	.....	1	.....	kn	.....	se.	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	30.50	774 6	30.76	781.4	52.2	11.2	77	ne.	.....	.....	1	.....	0	.....	.....	0.004	0.1	clear	M. Rayet, Director.
Bourges, Normal School	30.08	764.1	30.65	778.5	53.6	12	72	w.	.....	.....	1	0	2 k	.....	w.	0	0	slightly cl'dy	M. Malet, Director.
Brest, Naval Observatory	30.67	778.9	30.91	785.0	51.4	10.8	86	s.	.....	.....	1	.....	9	.....	s.	0	0	.....	M. de Kermaingé, Dir.
Caen, Normal School	30.76	781.2	30.84	783.2	50.4	10.2	71	s.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.48	774.2	30.82	782.7	52.0	11.1	77	calm	.....	.....	0	.....	2	.....	.....	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	30.28	769.0	30.80	782.2	48.2	9.0	76	nw.	.....	.....	1	.....	0	.....	.....	0.020	0.5	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.41	747.1	30.82	782.7	51.4	10.8	65	w.	.....	.....	1	.....	5	.....	n.	0	0	½ covered	M. Allnard, Director.
Cluny, Normal School	29.92	759.9	30.80	782.4	50.0	10	80	ne.	.....	.....	1	.....	7	.....	ne.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.94	760.5	30.84	783.2	48.4	9.1	60	nw.	.....	.....	1	.....	5 s	nw.	nw.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.89	708.5	30.49	774.4	50.0	10	39	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	M. Jeangirard, Director.
Grenasque, du Rhone	29.36	745.8	30.49	774.4	64.2	17.9	41	n.	.....	.....	1	.....	1	.....	sw.	0	0	.....	M. Klun, Director.
Grenoble. Normal School	30.01	762.2	30.80	782.2	50.0	10	72	sse.	.....	.....	1	.....	8	.....	n.	0	0	.....	M. Ablard, Director.
Guéret	29.17	741.0	30.77	781.6	50.0	10	74	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	30.72	780 2	31 00	787.3	52.5	11.4	71	nw.	.....	.....	2	.....	1	.....	nw.	0	0	clear	M. Ollitrault, Director
Lescar, Normal School	30.14	765.5	30.72	780.2	53.2	11.8	78	nne.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.82	782.7	30.92	785.3	51.1	10.6	75	nne.	.....	.....	1	.....	10	.....	.....	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.72	754.9	30.82	782.9	50.0	10.0	64	nnw.	.....	.....	2	0	5 k	.....	nnw.	0	0	clouds	M. André, Director.
Mans, Normal School	30.57	776.5	30.89	784.7	47.5	8.6	82	nne.	.....	.....	1	.....	2	.....	nne.	0	0	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	30.22	767.6	30.49	774.5	64.2	17.9	46	nw.	.....	.....	1	.....	1	.....	.....	0	0	.....	M. Stephan, Director.
Montlouis	25 38	644.6	30.22	767.6	48.2	9.0	40	ne.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	M. Caré for Dr. Fines.
Montpellier, Normal School	30.45	773 3	30.58	776.6	65.8	18.8	42	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.89	759.3	30.70	779.8	48.9	9.4	56	wnw.	.....	.....	1	.....	kn	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	30.75	781.0	30.91	785.1	55.0	12.8	67	ene.	.....	.....	0–1	.....	8 kn; n	.....	ene.	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	30.53	775.4	30.64	778.2	66.9	19.4	30	n.	26.2	11.7	.....	.....	0	.....	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.70	551 1	.....	.....	32.0	0.0	.....	ene.	.....	.....	2	.....	1	.....	ene.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.61	752.2	30.71	780.0	53.6	12	65	n.	.....	.....	3	.....	5	n.	n.	0	0	cloudy	M. Taillieu,
Puy de Dôme Obs'y, Summit	25 74	653.8	..	.....	38.5	3.6	24	ene.	.....	.....	4	.....	0	.....	.....	0.012	0.3	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	30.80	782.2	30.83	783.0	57.6	14.2	93	ne.	.....	.....	4	.....	2	.....	ne.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.62	777.8	30.84	783.4	51.4	10.8	75	nw.	.....	.....	1	.....	8	.....	nw.	0	0	very cloudy	M. Brotier, Director.
Rodez, Normal School	28.61	726.6	30.82	782.9	48.9	9.4	58	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.87	784.1	30.92	785.3	48.2	9	65	nw.	.....	.....	1	.....	2	nw.	.....	0	0	slightly cl'dy	M. Mouillot.
Saint Lô	.....	.....	.....	.....	47.5	8.6	72	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Delaplanche, Dir.
Saint Maur, Observatory	30.70	779.8	30.87	784.0	49.3	9.6	73	n.	.....	.....	1	.....	4	.....	w.	0	0	.....	M. Renou, Director.
Toulouse, Observatory	30.06	763.5	30.80	782.2	53.8	12.1	73	wnw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Baillaud, Director.
Tours	30.69	779 4	30.86	783.9	55.0	12.8	63	nne.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. de Tastes.
Versailles, Observatory	30.35	771.0	30.85	783.6	47.5	8.6	81	nw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.65	778.6	30.80	782.4	52.7	11.5	73	ne.	4.0	1.8	.....	.....	0	.....	.....	0	0	clear	M. Cartier, Director.
GERMAN.																			
Ansbach	30.37	771.4	30.71	780.1	41.0	5.0	59	nnw.	.....	.....	4	.....	4	nnw.	.....	0.024	0.6	.....	Prof. Jaedt.
Bamberg	29.76	755.8	30.61	777.6	43.5	6.4	56	nw.	.....	.....	3	.....	7	nw.	.....	0.157	4.0	.....	Prof. Dr. Hoh.
Berlin	30.26	768.5	30.41	772.3	43.0	6.1	68	w.	.....	.....	7	.....	7	.....	.....	0	0	.....	Meteorological Institute.
Breslau	29.84	758.0	30.38	771.7	38.3	3.5	69	wnw.	.....	.....	4	.....	10	.....	.....	0.035	0.9	.....	Royal University
Carlsruhe	30.28	769.1	30.76	781.3	51.3	10.7	51	nw.	.....	.....	2	.....	5	nw.	.....	0	0	.....	Albert Senz.
Cassel	29.84	758.0	30.56	776.1	43.9	6.6	67	wnw.	.....	.....	6	.....	8	nw.	.....	0.012	0.3	.....	Dr. H. Möhl.
Frankfort-on-the-Main	30.34	770.7	30.73	780.5	45.7	7.6	64	nw.	.....	.....	1	.....	8	.....	.....	0.012	0.3	.....	Physical Society.
Friedrichshafen	29.24	742.6	30.72	780.3	48.6	9.2	77	sw.	.....	.....	3	.....	4	sw.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	30.39	771.8	30.48	774.1	43.7	6.5	74	wnw.	.....	.....	7	.....	2	.....	.....	0.106	2.7	squally	E. Preller.
Kiel	30.39	771.8	30.40	772.2	43.2	6.2	78	wnw.	.....	.....	7	.....	6	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	30.11	764.8	30.55	775.9	43.0	6 1	62	wnw.	.....	.....	5	.....	9	nw.	.....	0.181	4.6	.....	H. Leppig, Asst.
Magdeburg	30.30	769.7	30.50	774.8	42.6	5.9	75	w.	.....	.....	5	.....	10	wnw.	.....	0.051	1.3	hazy	Dr. Assmann.
Memel	30.07?	763.8?	30.12?	765.0?	36.3	2.4	80	nw.	.....	.....	5	4 cs	0	.....	.....	.....	.....	.....	Issermann.
Munich	28.76	730.5	30.66	778.8	44.8	7.1	67	nw.	.....	.....	4	.....	7	w.	.....	0.118	3.0	.....	Central Station.
Neufahrwasser	30.06	763.5	30.08	763.9	39.9	4.4	93	w.	.....	.....	5	.....	8	.....	.....	0.008	0.2	.....	A. Lothes.
Neustadt, Palatinate	30.14	765.6	30.68	779.3	47.8	8.8	56	w.	.....	.....	4	.....	4	w.	.....	0	0	.....	Dicknether.
Stuttgart	29.73	755.2	30.66	778 7	47 7	8.7	58	nw.	.....	.....	4	.....	4	nw.	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	30.31	769.8	30.34	770.5	39.2	4.0	88	sw.	.....	.....	5	.....	10 k	.....	s.	0	0	.....	Profs. Brandes & Reimer
GREEK.																			
Athens	29.71	754.6	30.11	764.7	50.7	10.4	.....	nw.	.....	.....	1.0	.....	8	.....	.....	inap.	inap.	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.96	761.0	30.01	762 3	72.4	22.4	72	w.	16.0	7 2	.....	.....	9	w.	.....	0	0	gloomy	
Deesa	29.46	748.2	29.93	760.2	80.0	30.0	17	nnw.	13.0	5.8	.....	.....	3	w.	.....	0	0	d. clouds	
Bombay	29.82	757.4	29.86	758.3	81.4	27.4	73	nw.	20.0	8.9	.....	.....	5	w.	.....	0	0	d. clouds	
Poona, Yarrowda	28.00	711.3	29.81	757.2	93.0	33.9	17	w.	4.0	1.8	.....	.....	8	wsw.	.....	0	0	d. clouds	
Belgaum	27.32	694.0	29.80	757.0	88.4	31.3	17	e.	8.0	3.6	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.22	742.2	29.99	761.7	67.7	19.8	31	calm	0	0	.....	.....	6	.....	.....	0	0	d. clouds	
Roorkee	29.03	737.4	29.96	760.9	65.8	18.8	28	w.	3.0	1.3	.....	.....	10	w.	.....	0	0	.....	
Agra	29.38	746.1	29.95	760.7	76.2	24.6	31	nw.	4.0	1.8	.....	.....	7	.....	w.	0	0	d. clouds	
Nagpur	28.84	732.4	29.86	758.5	89.7	32.1	14	calm	2.0	0.9	.....	.....	7	w.	.....	0	0	d. clouds	
Jubbulpore	28.60	726.3	29.96	761.1	76.6	24.8	28	ne.	6.0	2.7	.....	.....	6	.....	ne.	0	0	gloomy	
Lucknow	29.54	750.4	29.93	760 3	67.8	19.9	34	wsw.	10.5	4.7	.....	.....	5	e.	.....	0	0	d. clouds	
Allahabad	29.62	752.3	29.94	760.4	72.7	22.6	35	nne.	2.0	0.9	.....	.....	3	w.	.....	0	0	d. clouds	
Patna	29.72	754.7	29.90	759.4	72.5	22.5	29	w.	6.8	3.0	.....	.....	2	w.	w.	0	0	.....	
Hazaribagh	27.90	708.5	29.95	760.8	67.6	19.8	29	w.	10.5	4.7	.....	.....	9	e.	w.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.81	757.2	29.90	759.3	82.0	27.8	47	ese.	8.0	3.6	.....	.....	0	.....	.....	0	0	blue sky.....	
Calcutta, Alipore	29.89	759.2	29.91	759.7	76.5	24.7	38	nnw	0.5	0.2	.....	.....	0	.....	.....	0	0	blue sky.....	
Dhubri	29.77	756.2	29.89	759.2	70.0	21.1	44	nw.	1.4	0.6	.....	.....	0	.....	.....	0	0	blue sky.....	
Chittagong	29.82	757.4	29.91	759.7	75.6	24.2	49	nw.	2.5	1.1	.....	.....	1	.....	.....	0	0	blue sky.....	
Sibsagar	29.57	751.1	29.91	759.8	68.0	20.0	75	ne.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky.....	
Seypore	28.53	724.5	30.00	762.0	71.2	21.8	22	n.	9.8	4.4	.....	.....	10	.....	n.	0	0	overcast.....	
Bellary	28.38	720.8	.....	.....	92.0	33.3	18	e.	6	2.7	.....	2 c	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.65	753.1	.....	.....	90.6	32.6	41	e.	1	0.4	.....	.....	0	.....	.....	0	0	blue sky.....	
ITALIAN.																			
Udine	29.96	761.0	30.38	771.7	55.6	13.1	44	s.	0.7	0.3	.....	.....	2	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.92	759.9	30.45	773.3	58.6	14.8	62	sw.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	Prof. Schiapparelli.
Padua	30.26	768.6	30.37	771.5	50.7	10.4	64	w.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.53	750.1	30.46	773.7	54.0	12.2	63	ene.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	30.25	768.4	30.45	773.4	60.4	15.8	52	nw.	8.1	3.6	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.56	725.4	30.53	775.4	48.0	8.9	48	se.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.12	765.1	30.17	766.4	50.4	10.2	70	n.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	30.17	766.2	30.43	772.9	52.9	11.6	61	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	30.29	769.3	30.37	771.5	53.1	11.7	68	W.	0.7	0.3	.....	.....	1	.....	.....	0	0	.....	Prof. P. Monte.
Rome	30.20	767.0	30.38	771.6	58.3	14.6	42	nw.	0	0	.....	.....	0	.....	.....	0	0	.....	Prof. P. Tachini.
Lecce	29.93	760.1	30.19	766.7	57.2	14.0	67	nw.	23.0	10.3	.....	.....	3	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.37	746.0	30.29	769.3	54.7	12.6	77	wnw.	3.8	1.7	.....	.....	5	nw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.25	768.3	30.45	773.3	57.4	14.1	59	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	30.14	765.5	30.39	772.0	55.9	13.3	57	ne.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. G. Caccintore.
Syracuse	30.24	768.1	30.29	769.3	56.8	13.8	62	nne.	3.8	1.7	.....	.....	3	nne.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.83	757.6	30.36	771.1	58.1	14.5	50	W.	6.9	3.1	.....	.....	1	ne.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.46	570.6	.....	.....	23.5	— 4.7	51	e.	.....	.....	4	.....	2	.....	.....	0	0	misty.....	Prof. P. F. Denza.
Valdobbia	22.54	572.5	.....	.....	34.0	1.1	31	e.	.....	.....	6	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.13	765.2	30.16	766.0	30.3	— 0.9	82	calm	.....	.....	0	.....	10 ck	.....	.....	0	0	cloudy.....	H. Hattori.
Awomori	30.15	765.8	30.19	766.8	22.9	— 5.1	63	sw.	4.0	1.8	.....	10 cs	0	.....	.....	0	0	overcast.....	K. Ogawa.
Hakodate	30.16	766.1	30.17	766.3	22.5	— 5.3	94	calm	0	0	.....	0	5	.....	.....	0	0	fair.....	
Hamamatsu	29.89	759.2	29.92	759.9	45.8	7.7	86	e.	.....	.....	6	1 ck	9 s;n	wsw.	wsw.	0.689	17.5	raining.....	
Kagoshima	30.01	762.2	30.02	762.5	51.9	11.0	82	nw.	.....	.....	2	2 cs	0	.....	.....	0.039	1.0	clear.....	G. Miyanonasa.
Kioto	29.80	756.9	29.98	761.5	43.3	6.3	88	nw.	3.3	1.4	.....	.....	10 n	.....	.....	1.103	28.0	light rain....	M. Tojima.
Kochi	29.89	759.2	29.91	759.7	50.8	10.4	74	sse.	2.3	1.0	.....	9	0	nw.	.....	0.559	14.2	cloudy.....	K. Kusunose.
Miasaka	29.97	761.3	30.00	762.0	54.6	12.6	89	sse.	.....	.....	2	0	7 ks;s	.....	sw.	0.126	3.2	cloudy.....	K. Masusaki.
Nagasaki, I. M. Obs'y	29.87	758.7	30.08	764.0	47.7	8.7	81	nne.	2.1	0.9	.....	3 c	6 s	w.	nne.	0.040	1.0	cloudy.....	S. Takehayashi.
Niigata	30.06	763.5	30.10	764.5	37.0	2.8	85	ne.	5.4	2.4	.....	.....	10 n	.....	.....	0.280	7.1	light rain....	M. Morita.
Nobiru	30.14	765.6	30.16	766.0	35.4	1.9	83	n.	0.6	0.3	.....	.....	10s;ks	.....	.....	0.250	6.4	covered.....	H. Midzushina.
Numazu	30.02	762.5	30.06	763.4	40.0	4.4	91	ese.	.....	.....	4	.....	10 n	.....	.....	1.185	30.1	raining.....	R. Kaneda.
Osaka	29.97	761.3	29.99	761.7	42.7	5.9	94	nne.	4.6	2.1	.....	.....	10 n	.....	ne.	0.880	22.3	raining.....	H. Omura.
Sakai	30.11	764.8	30.12	765.1	42.9	6.1	82	ne.	.....	.....	2	1 cs	9 ks	nw.	n.	0.520	13.2	cloudy.....	K. Yamawchi.
Sapporo	.....	.....	.....	.....	23.0	— 5.0	59	calm	0	0	.....	.....	10	.....	.....	inap.	inap.	covered. ...	
Tokei Obs'y, Yeddo	30.05	763.2	30.13	765.3	32.6	0.3	99	nnw.	9.2	4.1	.....	.....	10 n	.....	.....	0.784	19.9	snowing.....	The Staff.
Wakayama	29.93	760.1	29.98	761.5	43.1	6.2	93	nnw.	10.5	4.7	.....	.....	10 n	.....	n.	0.874	22.2	raining.....	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.75	755.6	29.94	760.5	80.2	26.8	68	ese.	15.0	6.7	.....	2 cs	6 ks;kn	.....	ese.	0.17	4.3	cloudy.....	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	.....	.....	.....	nw.	13.3	5.9	.....	.....	.....	.....	.....	.....	.....	clear.....	H. Diaz Pena.
Guanajuato	23.67	601.2	29.89	759.2	53.1	11.7	84	ssw.	inap.	inap.	.....	.....	10 kn	.....	wsw.	0.008	0.2	covered.....	Prof. Vicente Fernandez.
Leon	24.22	615.2	29.91	759.7	54.7	12.6	94	wsw.	.....	.....	1	.....	10 n	.....	.....	0.088	2.2	covered.....	Prof. M. Leal.
Mazatlan	29.73	755.0	29.99	761.8	58.0	14.4	64	nw.	11.0	4.9	.....	2 cs	0	sw.	.....	0	0	clear.....	F. Quijano, U. E.
Mexico, Central Obs'y	23.03	584.9	30.12	764.9	51.8	11.0	67	calm	0	0	.....	5 ck	5 ks	sw.	.....	0	0	covered.....	The Staff.
Morelia	24.21	615.0	30.09	764.3	52.2	11.2	63	e.	.....	.....	2	5 c	5 k	s.	s.	0	0	cloudy.....	M. Tena, M. D.
Pabellon	23.85	605.7	29.92	759.9	50.4	10.2	80	calm	0	0	.....	9 c	1 s	sw.	sw.	inap.	inap.	covered.....	
Puebla, Catholic Institute	23.36	593.3	30.08	763.9	55.0	12.8	84	ne.	1.7	0.8	.....	.....	10	.....	se.	0	0	covered.....	Prof. P. Spina.
Zacatecas	22.45	570.9	30.22	767.5	42.8	6.0	90	sw.	10.2	7.2	.....	6 ck	4 ns	e.	sw.	0.040	1.0	covered.....	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.81	782.5	30.81	782.5	46.2	7.9	.....	w.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	30.57	776.4	30.62	777.8	45.1	7.3	.....	nw.	.....	.....	5	.....	.....	.....	.....	0	0	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.77	781.6	30.77	781.6	45.9	7.7	75	w.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	30.69	779.6	30.74	780.8	48.7	9.3	69	wnw.	.....	.....	4	.....	5	.....	.....	0	0	cloudy.....	H. van der Brink
Sub-series.																			
Batavia, Java	29.84	757.8	.....	.....	80.8	27.1	78	nnw.	0.5	0.2	.....	.....	1	.....	.....	0	0	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.03	762.7	30.09	764.3	39.9	4.4	56	nnw.	22	10	.....	.....	10	.....	.....	1.213	30.8	raining.....	
Brono	29.52	749.7	29.56	750.7	29.8	— 0.2	96	wnw.	.....	.....	6	.....	5	.....	.....	0.213	5.4	snowing.....	
Christianslt	29.71	754.5	29.85	758.3	41.2	5.1	37	wnw.	27	12	.....	.....	1	.....	.....	0	0	.....	
Gjæsvær	28.83	732.2	28.85	732.8	33.8	1.0	.....	nw.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.21	742.0	29.26	743.2	29.3	— 1.5	76	nw.	.....	.....	4	.....	8	.....	.....	0.201	5.1	.....	
PORTUGUESE.																			
Angra, Azores	30.14	765.6	30.30	769.6	61.5	16.4	83	ese.	16.1	7.2	.....	.....	5	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.50	749.4	30.52	775.3	58.5	14.7	37	e.	13.0	5.8	.....	.....	0	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.16	766.1	30.25	768.3	67.8	19.9	69	ese.	4.3	1.9	.....	.....	0	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.17	766.4	30.54	775.7	57.2	14.0	34	ene.	21.7	9.7	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.21	767.2	30.28	769.0	63.3	17.4	61	ese.	11.9	5.3	.....	.....	3	n.	.....	0	0	.....	
Saint Paul de Loando	29.61	752.2	29.81	757.2	83.8	28.8	88	W.	0.7	0.3	.....	.....	8	.....	.....	0	0	.....	
Serra da Estrella	25.76	654.3	30.58	770.6	48.6	9.2	16	ese.	19.9	8.9	.....	.....	0	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.42	747.2	30.66	778.7	— 6.0	—21.1	79	sse.	2	1	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.23	742.5	29.25	743.0	19.8	— 6.8	84	ese.	2	1	.....	.....	10	.....	.....	0	0	.....	Capt. Sselliwerstow.
Ashurada	30.41	772.5	30.32	770.1	44.4	6.9	67	n.	7	3	.....	0	0 kn	.....	.....	blank	blank	.....	
Astrakhan	30.42	772.7	30.34	770.6	29.1	— 1.6	60	se.	4	2	.....	.....	8 s	.....	.....	0	0	light clouds	Capt. Wisganow.
Baku	30.35	770.8	30.30	769.6	43.0	6.1	68	s.	4	2	.....	3 ck	0	.....	.....	0	0	.....	
Barnaul	30.24	768.2	30.80	782.4	11.3	—11.5	83	sw.	2	1	.....	.....	10	.....	.....	inap.	inap.	.....	Meteorological Obs'y.
Bielosersk	28.80	731.6	29.28	743.8	26.4	— 3.1	91	wsw.	9	4	.....	.....	10 s	.....	.....	0.035	0.9	.....	
Dorpat	29.44	747.8	29.69	754.2	34.2	1.2	91	W.	13	6	.....	0	8 ks	.....	.....	blank	blank	.....	Observatory.
Ekaterinburg	29.32	744.7	30.37	771.3	16.2	— 8.8	57	sw.	9	4	.....	c;ck	9 s	.....	.....	0	0	light clouds	Meteorological Obs'y.
Elissawetgrad	29.56	750.9	30.04	762.9	27.9	— 2.3	92	s.	11	5	.....	.....	10 n	.....	.....	0.059	1 5	.....	
Irkutsk	29.08	738.5	30.95	786.2	— 2.0	—18.9	76	calm	.....	.....	0	.....	4	.....	.....	0.004	0.1	.....	
Kasalinsk	29.95	760.7	30.13	765.2	11.8	—11.2	72	n.	4	2	.....	2 c	0	.....	.....	.....	.....	.....	
Kasan	29.82	757.3	30.11	764.9	9.1	—12.7	82	sse.	27	12	.....	.....	10	.....	.....	0	0	.....	Observatory.
Kem	29.16	740.7	29.21	742.0	20.1	— 3.3	80	s.	4	2	.....	.....	10 ks	.....	.....	0	0	heavy cl'ds..	
Kertch	30.12	765.0	30.14	765.5	37.6	3.1	87	calm	0	0	.....	0	3 k	.....	.....	0	0	.....	Lagorio & Sastyrez.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Kief	29.22	742.3	29.88	759.0	34.9	1.6	80	nw.	22	10	.....	.....	10ks;n	.....	.....	0.209	5.3	.....	Observatory.
Koslov	29.41	747.1	29.98	761.4	23.2	— 4.9	97	ssw.	31	14	.....	.....	10 s	.....	.....	blank	blank	snow drift.	
Liban	29.80	756.8	29.82	767.4	35.6	2.0	80	w.	16	7	.....	.....	3	.....	.....	blank	blank	.....	E. Quass.
Lugan	29.89	759.2	30.08	764.1	28.9	— 1.7	82	ssw.	9	4	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.15	740.4	29.65	753.1	26.6	— 3.0	89	sw.	7.8	3.5	.....	.....	10 n	.....	.....	0.024	0.6	.....	Meteorological Obs'y
Nikolaiev	30.01	762.3	30.09	764.2	33.8	1.0	77	sw.	9	4	.....	.....	9 n	.....	.....	0.165	4.2	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.16	766.0	30.24	768.2	5.0	—15.0	73	w.	13	6	.....	.....	10	.....	.....	0.071	1.8	.....	Iwanow.
Pekin, China	30.32	770.2	30.47	774.0	34.9	1.6	37	calm	0	0	.....	0	5 ks	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	30.04	763.1	30.42	772.7	25.9	— 3.4	82	calm	0	0	.....	0	1 s	.....	.....	0	0	.....	
Petrozavodsk	29.09	738.9	29.30	744.1	25.2	— 3.8	87	nw.	11	5	.....	.....	10	.....	.....	inap.	inap.	light clouds	Dr. Bergmann.
Pinsk	29.50	749.2	30.01	762.2	36.3	2.4	66	wsw.	22	10	.....	c	8 s	.....	.....	0.181	4.6	.....	
Poti	30.10	764.6	30.12	765.1	48.9	9.4	84	wsw.	7	3	.....	0	5 s	.....	.....	0.220	5.6	.....	
St. Petersburg	29.39	746 6	29.41	747.0	32.5	0.3	87	w.	4	2	.....	.....	10 n	.....	.....	0.240	6.1	.....	Central Physical Obs'y.
Samarkand	27.79	705.9	30.39	772.0	32.0	0.0	62	calm	0	0	.....	2 c	0	.....	.....	.....	.....	.....	
Semipalatinsk	30.08	764.0	30.82	782.8	— 0.8	—18.2	77	e.	13	6	.....	.....	0	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.87	758.6	30.10	764.5	39.2	4.0	66	s.	20	9	.....	.....	9 u	.....	.....	0.016	0.4	.....	
Starol Bykhov	29.39	746.5	29.86	758.5	35.8	2.1	64	nw.	20	9	.....	.....	10 ks	.....	.....	0.169	4.3	.....	
Tashkend	28.65	727.6	30.41	772.4	33.3	0.7	35	calm	0	0	.....	7 ck	0	.....	.....	0	0	light clouds.	Terch, A. M.
Tiflis	28.78	731.1	30.24	768.2	41.4	5.2	52	se.	9	4	.....	0	4 s	.....	.....	0	0	light clouds	Physical Observatory.
Vernoe	27.73	704.4	30.47	773.8	14.2	— 9.9	77	w.	9	4	.....	0	0	.....	.....	.....	.....	.....	
Viatka	29.14	740.1	29.81	757.2	13.1	—10.5	.....	s.	11	5	.....	.....	10	.....	.....	.....	.....	snow drift.	
Vladivostock	30.33	770.4	30.40	772.1	4.6	—15.2	29	n.	9	4	.....	.....	5 k	.....	.....	0	0	.....	
Warsaw	29.72	754.8	30.16	766.0	36.3	2.4	75	w.	18	8	.....	.....	10	.....	.....	0	0	heavy cl'ds.	Astronomical Obs'y.
Wilna	29.48	748.8	29.92	759.9	35.1	1.7	72	nw.	7	3	.....	.....	10	.....	.....	0	0	heavy cl'ds.	Berg, Assistant.
Yeniseisk	30.37	771.4	30.69	779.6	3.2	—16.0	86	ese.	7	3	.....	.....	10	.....	.....	0.055	1.4	snowing	M. O. Marks.
Scottish.																			
Monach Lt	.....	.....	30.38	771.6	48	8.9	92	sw.	.....	.....	7	.....	10	.....	.....	0.1	3.	showery	J. Youngclauss.
North Unst	.....	.....	29.97	761.2	.....	.....	.....	nw	.....	.....	8	.....	7	.....	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.47	774.0	30.58	776.8	61.7	16.5	50	w.	2.7	1.2	.....	1 c	0	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.75	781.1	30.81	782.6	55.4	13.0	75	se.	1.8	0.8	.....	2	0	e.	.....	0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.65	702.2	30.73	780.6	48.2	9.0	65	ne.	2.7	1.2	.....	0	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.40	721.3	30.68	779.3	55.6	13.1	40	ne.	11.4	5.1	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	30.50	774.6	30.64	778.2	62.2	16.8	65	ssw.	2.0	0.9	.....	0	0	.....	.....	0	0	clear	Olayo Diaz, Director.
Oviedo	29.84	758.0	30.72	780 3	42.8	6.0	87	n.	2.6	1.2	.....	0	0	.....	.....	0	0	clear	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.66	753.3	30.56	776.2	62.4	16.9	44	e.	3.8	1.7	.....	.....	0	.....	.....	0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.94	760.4	30.00	761.9	77.2	25.1	63	ene.	8.8	3.9	.....	.....	5 k	.....	ene.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.36	771.2	30.46	773.7	60.4	15.8	59	e.	38.4	17.2	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.97	761.2	30.06	763.5	70.5	21.4	94	se.	12.1	5.4	.....	2 k	4 kn	s.	s.	0.079	2.0	cloudy	Enrique Gades, Chf Eng'r
Swedish.																			
Haparanda	29.26	743.1	29.30	744 1	14.7	— 9.6	100	s.	.....	.....	2	.....	2	.....	.....	0	0	.....	
Umea	29.35	745.5	29.40	746.8	34.2	1.2	68	nw.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Hernosand	29.45	748.0	29.50	749.3	37.0	2.8	53	nnw.	.....	.....	4	.....	2	.....	.....	0	0	.....	
Stockholm	29.55	750.5	29.72	755.0	34.9	1.6	71	w.	.....	.....	4	.....	3	.....	.....	0.075	1.9	.....	
Wisby	29.68	753.8	29.74	755.3	36.7	2.6	93	wnw.	.....	.....	6	.....	3	.....	.....	0.134	3.4	.....	
Sub-series.																			
Upsala	29.60	751.7	29.68	753.9	36.1	2.3	60	wnw.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	29.31	744.5	30.75	781.0	50.4	10.2	61	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.10	764.5	39.0	3.9	63	ene.	8	3.5	.....	.....	10	.....	n.	0.024	0.6	.....	The Observatory.
Valona	.....	.....	30.21	767.4	55.2	12.9	.....	nw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.85	758.1	63.3	17.4	68	sw	.....	.....	1	.....	8 ks	.....	sw.	0	0	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred L. Kingsbury.
United States.																			
Albany, New York	30.15	765.8	30.24	768.1	26.5	— 3.1	70	nw.	6	2.7	.....	0	6 s	.....	nw.	0.02	0.5	fair	J. O. Barnes.
Alpena, Michigan	29.78	756.4	30.49	774.4	10	—12.2	80	e.	5	2.2	.....	.....	10 n	.....	.....	0.01	0.3	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.96	634.0	30.06	763.5	37	2.8	82	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.06	687 3	30.10	764.5	26	— 3.3	67	ne.	8	3.6	.....	.....	10 s	.....	w.	0.02	0.5	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.96	735.6	30.18	766.6	49.5	9.7	82	nw.	4	1.8	.....	.....	10 n	.....	.....	0.01	0.3	light rain	H. C. Smyth.
Atlantic City, New Jersey	30.18	766.6	30.19	766 9	32	0.0	68	n.	10	4.5	.....	0	0	.....	.....	0.14	3.6	clear	Jas. M. Watson.
Augusta, Georgia	29.97	761 2	30.17	766.3	49	9.4	86	calm	0	0	.....	10 c	sk.	sw.	.....	0	0	cloudy	John Healy.
Baltimore, Maryland	30.25	768.3	30.30	769.6	36	2.2	53	nw.	5	2.2	.....	3 c	0	nw.	.....	0.01	0.3	clear	Geo W Felger.
Barnegat, New Jersey	30.18	766.6	30.20	767.1	31.0	— 0.6	68	nw.	20	8.9	.....	4 c	0	.....	.....	0.06	1.5	fair	G. A. Hill.
Behring Id., Behring Sea	30.73	780.5	30.75	781.0	29.7	— 1.3	.....	se.	6	2.7	.....	0	9 n	.....	se.	0	0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.24	717.3	29.97	761.2	32	0.0	88	se.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.12	688.8	30.12	765.0	26	— 3.3	67	sw.	12	5.4	.....	.....	10 s	.....	sw.	0.03	0.8	cloudy	S. Wheaton.
Billings, Montana	26.60	675.6	.....	.....	35	1.7	72	ne.	11	4.9	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	T. Gibson.
Bismarck, Dakota	27.95	709.9	29.93	760.2	26	— 3.3	88	s.	16	7.2	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.07	763 8	30.10	764.5	30	— 1.1	78	n.	24	10.7	.....	0	0	.....	.....	0.04	1.0	clear	J. T. Elker.
Boise City, Idaho	27.30	693.4	30.26	768.6	27	— 2.8	88	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.96	761.0	30.12	765.0	25.0	— 3.9	73	n.	13	5.8	.....	.....	10 n	.....	.....	inap.	inap.	light snow	O. B. Oole.
Brownsville, Texas	29.68	753.9	29.73	755.1	66.5	19.2	91	s.	16	7.2	.....	.....	10 s	.....	s.	0	0	cloudy	M. McCarty.
Buffalo, New York	29.62	752.3	30.42	772.7	13.3	—10.4	83	nw.	7	3.1	.....	1 k	2 ks	nw.	nw	0.03	0.8	clear	W. Finn.
Buford, Fort, Dakota	27.74	704.6	29.92	760.0	22	— 5.6	88	calm	0	0	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	F. A. Mellen.
Burlington, Vermont	29.98	761.5	30.29	769.4	9.3	—12.6	78	n.	7	3.1	.....	6 cs	0	w.	.....	0.07	1.8	fair	D. N. Farnell.
Cairo, Illinois	29.74	755.4	30.16	766.1	41.8	5.4	75	e.	9	4.0	.....	.....	10 s	.....	e.	0	0	cloudy	W. H. Ray.
Cape Henry, Virginia	30.20	767.1	30.22	767.6	42	5.6	73	n.	10	4.5	.....	8 cs	0	.....	.....	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.23	767.8	30.26	768.6	35.0	1.7	64	n.	22	9.8	.....	0	0	.....	.....	0.20	5.1	clear	W. E. Smith.
Cape Mendocino, California	29.32	744.7	30.02	762.5	42	5.6	92	nw.	.....	.....	.....	.....	10 ks	.....	nw.	0.26	6.6	cloudy	J. J. McLean.
Cedar Keys, Florida	30.07	763.8	30.09	764.3	58	14.4	86	ne.	4	1.8	.....	4 ck	0	.....	.....	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.41	747.0	30.28	769.1	22.5	— 5.3	66	ne.	14	6.3	.....	0	6 s	.....	ne.	0	0	fair	L. A. Welsh.
Charleston, S. Carolina	30.06	763.5	30.12	765.0	54	12.2	74	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.28	743.7	30.17	766.3	45.0	7.2	76	ne.	4	1.8	.....	.....	10 s	.....	ne.	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.34	745.2	30.20	767.1	50.0	10.0	83	ne.	2	0.9	.....	.....	10n;fg	.....	n.	0.07	1.8	light rain	B. L. Goulding.
Cheyenne, Wyoming	23.79	604.2	30.04	763.0	33.2	0.7	50	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.66	751.8	30.35	770 9	21.3	— 5.9	65	e.	13	5.8	.....	1 cs	0	ne.	.....	inap.	inap.	clear	J. Mitchell.
Chincoteague, Virginia	30.18	766.6	30.20	767.1	38	3.3	72	ne.	20	8.9	.....	4 k	3 s	nw.	.....	0.01	0.3	fair	C. F. Dickens.
Cincinnati, Ohio	29.62	752.3	30.31	769.9	33	0.6	88	n.	6	2.7	.....	.....	10 s	.....	nw.	0.07	1.8	cloudy	R. B. Watkins.
Cleveland, Ohio	29.62	752.3	30.41	772.4	17.7	— 7.9	88	ne.	4	1.8	.....	3 cs	0	nw.	.....	inap.	inap.	clear	J. B. Newlin.
Coleman City, Texas	27.90	708.6	29.78	756.4	53	11.7	100	ne.	13	5.8	.....	0	8 s	.....	sw.	0.56	14.2	cloudy	L. Dorman.
Columbus, Ohio	29.41	747.0	30.31	769.9	25	— 3.9	43	ne.	13	5.8	.....	0	0	.....	.....	0.16	4.1	clear	D. Cuthbertson.
Concho, Fort, Texas	27.77	705.4	29.79	756.7	52.0	11.1	93	calm	0	0	.....	.....	10 s	.....	.....	0.24	6.1	cloudy	J. McGlone.
Davenport, Iowa	29.56	750.8	30.20	768.6	29	— 1.7	67	e.	8	3.6	.....	0	8 s	.....	sw.	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	24.99	634.0	29.92	760.0	40	4.4	76	calm	0	0	.....	0	0	.....	.....	0.01	0.3	clear	J. Williams.
Dayton, Washington T'y	28.45	722.6	30.26	768.6	29	— 1.7	88	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
United States.—Cont'd.																			
Deadwood, Dakota	25.06	636.5	29.98	761.5	37	2.8	75	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	F. Willson.
Delaware Breakwater, Del.	30.21	767.3	30.23	767.8	35	1.7	69	n.	40	17.9	.....	4 ck	2 k	n.	n.	0.12	3.0	fair	T. S. Townsend.
Denison, Texas	28.99	736.3	29.83	757.7	52.0	11.1	100	e.	6	2.7	.....	.....	10 n	.....	.....	0.05	1.3	light rain	J. W. Byram.
Denver, Colorado	24.51	622.5	30.03	762.7	35.0	1.7	72	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.21	741.9	30.18	766.6	28	— 2.2	77	se.	10	4.5	.....	.....	10 s	.....	se.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.67	753.6	30.42	772.7	18.0	— 7.8	84	n.	9	4.0	.....	0	0	.....	.....	0.04	1.0	clear	E. R. Brace.
Dodge City, Kansas	27.21	691.1	29.95	760.7	34	1.1	82	e.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	V. P. Temple.
Dubuque, Iowa	29.56	750.8	30.32	770.1	22.4	— 5.3	73	calm	0	0	.....	.....	10 s	.....	e.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.56	750.8	30.37	771.4	12	—11.1	80	e.	12	5.4	.....	3 ck	0	e.	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	28.93	734.8	29.77	756.1	62.1	16.7	87	s.	1	0.4	.....	.....	10 s	.....	s.	0.03	0.8	cloudy	F. Belford.
Eagle Rock, Idaho	25.23	640.8	30.13	765.3	32	0.0	81	sw.	18	8.0	.....	.....	10 s	.....	s.	0	0	cloudy	J. M. Clifford.
Eastport, Maine	30.01	762.2	30.08	764.0	17.0	— 8.3	83	n.	19	8.5	.....	.....	10u;fg	.....	n.	0.06	1.5	light snow	D. C. Murphy.
Elliott, Fort, Texas	27.08	687.8	29.98	761.5	45	7.2	63	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	W. J. Cundall.
El Paso, Texas	26.11	663.2	29.99	761.7	30.0	2.2	92	nw.	8	3.6	.....	0	3 s	.....	nw.	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.64	752.8	30.41	772.4	16	— 8.9	83	calm	0	0	.....	0	0	.....	.....	0.03	0.8	clear	Peter Wood.
Escanaba, Michigan	29.78	756.4	30.50	774.7	— 9.0	—22.8	61	n.	4	1.8	.....	0	8 s	.....	n.	0	0	cloudy	George Heathcote.
Fredericksburg, Texas	27.99	710.9	29.79	756.7	55	12.8	93	e.	6	2.7	.....	.....	10 n	.....	.....	0.04	1.0	thund'r st'm	Frank Halwegler.
Galveston, Texas	29.78	756.4	29.83	757.7	65	18.3	93	se.	18	8.0	.....	.....	10 ks	.....	sw.	0.05	1.3	cloudy	E. O'C. MacInernay.
Grand Haven, Michigan	29.70	754.4	30.42	772.7	9.0	—12.8	76	n.	6	2.7	.....	1 c	0	.....	.....	0	0	clear	J. E. Mueller.
Grant, Fort, Arizona	25.15	638.8	30.01	762.2	37	2.8	75	nw.	10	4.5	.....	.....	10 s	.....	n.	0	0	cloudy	Robert O. Lord.
Hatteras, North Carolina	30.14	765.5	30.16	766.1	48	8.9	77	nw.	6	2.7	.....	4 c	hz.	s.	.....	0	0	fair	R. M. Crawford.
Helena, Montana	25.82	655.8	30.22	767.6	33	0.6	81	sw.	4	1.8	.....	.....	10 s	.....	calm	0	0	cloudy	N. C. Smith.
Henrietta, Texas	28.82	732.0	29.87	758.7	52	11.1	100	ne.	11	4.9	.....	.....	10 n	.....	.....	0.46	11.7	thund'r st'm	J. P. Sherry.
Huron, Dakota	28.53	724.6	30.05	763.3	26	— 3.3	76	se.	18	8.0	.....	.....	10 n	.....	.....	0.01	0.3	light snow	S. W. Glenn.
Indianapolis, Indiana	29.43	747.5	30.28	769.1	25.0	— 3.9	73	ne.	4	1.8	.....	4 c	0	n.	.....	0.02	0.5	fair	C. F. R. Wappenhans.
Indianola, Texas	29.72	754.9	29.75	755.6	63.2	17.3	100	se.	16	7.2	.....	.....	10 n	.....	se.	0.20	5.1	light rain	I. A. Reed.
Jacksboro, Texas	28.51	724.9	29.78	756.4	54	12.2	86	n.	8	3.6	.....	.....	10 n	.....	.....	0.38	9.7	light rain	D. J. Carr.
Jacksonville, Florida	30.07	763.8	30.12	765.0	56	13.3	93	calm	0	0	.....	4 cs	0	w.	.....	0	0	fair	J. W. Smith.
Keogh, Fort, Montana	27.24	691.9	29.92	760.0	38	3.3	82	nw.	10	4.5	.....	.....	10 s	.....	nw.	0.07	1.8	cloudy	A. Schneider.
Keokuk, Iowa	29.50	749.3	30.20	767.1	26.0	— 3.3	82	e.	13	5.8	.....	10 k	0	w.	.....	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.01	762.2	30.03	762.7	74.0	23.3	76	se.	9	4.0	.....	.....	10 ks	.....	se.	0	0	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.18	766.6	30.20	767.1	44	6.7	83	ne.	16	7.2	.....	4 cs	2 s	ne.	ne.	0	0	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	29.12	739.6	30.20	767.1	45	7.2	93	nw.	2	0.9	.....	.....	10 s	.....	nw.	0.03	0.8	threatening	J. A. Cody.
La Crosse, Wisconsin	29.48	748.8	30.32	770.1	23	— 5.0	61	se.	4	1.8	.....	hz.	3 s	.....	.....	0	0	fair	S. C. Emery.
Leavenworth, Kansas	29.13	739.9	30.08	764.0	35	1.7	69	e.	10	4.5	.....	.....	10 n	.....	se.	0.03	0.8	light rain	A. W. Browne.
Lewiston, Idaho	29.35	745.5	30.22	767.6	37.0	2.8	56	sw.	6	2.7	.....	2 ck	0	w.	.....	0	0	clear	W. Bell.
Little Rock, Arkansas	29.70	754.4	30.03	762.7	51	10.6	93	e.	4	1.8	.....	.....	10 n	.....	.....	0.36	9.1	light rain	W. U. Simons.
Los Angeles, California	29.64	752.8	30.04	763.0	53	11.7	86	calm	0	0	.....	.....	10 s	.....	sw.	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.64	752.8	30.23	767.8	33	0.6	68	ne.	12	5.4	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	L. M. Dey.
Lynchburg, Virginia	29.49	749.0	30.21	767.3	42	5.6	65	nw.	1	0.4	.....	0	5 ks	.....	w.	0	0	fair	Louis Duane.
Mackinaw City, Michigan	29.80	756.9	30.50	774.7	1.5	—16.9	61	calm	0	0	.....	0	0 s	.....	se.	0	0	fair	F. R. Day.
Macon, Fort, North Carolina	30.16	766.1	30.17	766.3	48.0	8.9	71	nw.	3	1.3	.....	8 cs	0	w.	.....	0	0	cloudy	William Daly.
Madison, Wisconsin	29.26	743.2	30.35	770.9	15	— 9.4	67	e.	3	1.3	.....	10 cs	0	w.	.....	0	0	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.37	644.4	29.91	759.7	25	— 3.9	40	nw.	16	7.2	.....	.....	10 s	.....	nw.	0	0	cloudy	F. Burke.
McKavett, Fort, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thatcher.
Marquette, Michigan	29.66	753.4	30.44	773.2	1	—17.2	42	s.	2	0.9	.....	0	0	.....	.....	0.05	1.3	clear	J. Gilligan.
Memphis, Tennessee	29.70	754.4	30.05	763.3	48	8.9	100	calm	0	0	.....	.....	10 n	.....	.....	0.92	23.4	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.59	751.6	30.39	771.9	22	— 5.6	73	e.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	W. Line.
Missoula, Fort, Montana	26.66	677.2	30.09	764.3	31	— 0.6	71	n.	2	0.9	.....	0	6 ks	.....	.....	0	0	fair	I. H. Young.
Mobile, Alabama	29.97	761.2	30.01	762.2	61	16.1	90	e.	2	0.9	.....	6 k;ck	4 ks	sw.	.....	0.02	0.5	cloudy	C. A. Read.
Montgomery, Alabama	29.82	757.4	30.06	763.5	51.3	10.7	92	e.	3	1.3	.....	.....	10 n	.....	sw.	0.01	0.3	light rain	J. B. McLaughlin.
Moorhead, Minnesota	29.02	737.1	30.12	765.0	17	— 8.3	100	se.	24	10.7	.....	.....	10 s	.....	se.	0	0	threatening	H. Bessant.
Morgantown, W. Virginia	29.29	744.0	30.36	771.1	30.0	— 1.1	56	ne.	12	5.4	.....	0	0	.....	.....	0.38	9.7	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.40	594.3	30.02	762.5	— 9.0	—22.8	80	nw.	46	20.6	.....	0	0	.....	.....	0.40	10.2	clear	S. W. Beall.
Nashville, Tennessee	29.54	750.3	30.15	765.8	47.0	8.3	93	e.	2	0.9	.....	.....	10 n	.....	w.	0.04	1.0	light rain	L. N. Jesunofsky.
New Haven, Connecticut	30.02	762.5	30.14	765.5	28	— 2.2	54	nw.	7	3.1	.....	0	0	.....	.....	0.01	0.3	clear	J. H. Sherman.
New London, Connecticut	30.12	765.0	30.17	766.3	31	— 0.6	78	nw.	7	3.1	.....	0	0	.....	.....	0.05	1.3	clear	J. G. Lynch.
New Orleans, Louisiana	29.87	758.7	29.93	760.2	64.5	18.1	86	s.	8	3.6	.....	roc;cs	0	sw.	.....	0.02	0.5	cloudy	L. Dunne.
Newport, Rhode Island	30.04	763 0	30.09	764.3	30.1	— 1.1	69	nw.	16	7.2	.....	0	1 s	.....	.....	0.03	0.8	clear	W. McGillivray.
New York, New York	30.03	762.7	30.22	767.6	27	— 2.8	77	w.	14	6.3	.....	0	0	.....	.....	inap	inap.	clear	J. B. Merrill.
Norfolk, Virginia	30.20	767.1	30.23	767.8	43	6.1	68	ne.	4	1.8	.....	7 cs	0	.....	.....	0	0	fair	Wm. Davis.
North Platte, Nebraska	26.91	683.5	30.01	762.2	34.6	1.4	83	se.	8	3.6	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	E. F. Brady.
Olympia, Washington T'y	30.27	768.8	30.31	769.9	31.0	— 0.6	88	calm	0	0	.....	10 ck	0	sw.	.....	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.85	732.8	30.12	765.0	30.7	— 0.7	84	se.	12	5.4	.....	.....	10 n	.....	.....	0.01	0.3	light snow	A. Pollak.
Ooglaamie, Alaska	30.30	769.6	30.32	770.1	—20.3	—29.1	100	calm	0	0	.....	hz.	hz.	.....	.....	0	0	dense fog	P. H. Ray.
Oswego, New York	30.01	762.2	30.36	771.1	15.0	— 9.4	83	ne.	14	6.3	.....	0	9 k	.....	ne.	0.01	0.3	cloudy	J. G. Linsley.
Palestine, Texas	29.31	744.5	29.89	759.2	59.0	15.0	100	e.	8	3.6	.....	.....	fg.	.....	.....	0.34	8.6	dense fog	L. M. Pindell.
Pensacola, Florida	30.00	762.0	30.03	762.7	62.0	16.7	93	ne.	7	3.1	.....	.....	10 s	.....	w.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.15	765.8	30.26	768.6	31.5	— 0.3	58	nw.	12	5.4	.....	0	0	.....	.....	inap.	inap.	clear	E. M. Mattison.
Pike's Peak, Colorado	17.58	446.5	30.30	769.6	12	—11.1	100	sw.	.....	.....	1	.....	10 n	.....	sw.	0.15	3.8	cloudy	H. Hall.
Ploche, Nevada	29.91	607.3	30.07	763.8	36	2.2	72	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.52	749.8	30.38	771.6	23.0	— 5.0	80	n.	4	1.8	.....	0	0	.....	.....	0.06	1.5	clear	W. A. Reid.
Poplar River, Montana	27.71	703.8	30.06	763.5	.....	.....	.....	sw.	.....	.....	4	5 k	3 k	sw.	sw.	0.14	3.6	cloudy	W. O. Maxwell.
Port Eads, Louisiana	29.96	761.0	29.98	761.5	63.0	17.2	97	s.	11	4.9	.....	.....	10 s	.....	s.	0	0	cloudy	H. B. Boyer.
Port Huron, Michigan	29.73	755.1	30.46	773.7	14.3	— 9.8	93	ne.	11	4.9	.....	0	0	.....	.....	inap.	inap.	clear	W. O. Bailey.
Portland, Maine	30.09	764.3	30.14	765.5	21	— 6.1	58	n.	16	7.2	.....	7 ck	0	n.	.....	0.01	0.3	fair	W. W. Eichelberger
Portland, Oregon	30.26	768.6	30.33	770.4	35.0	1.7	89	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	49	9.4	86	n.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	F. S. Coburn.
Prescott, Arizona	24.65	626.1	30.01	762.2	37.0	2.8	82	s.	4	1.8	.....	0	1 s	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass.	29.98	761.5	30.01	762.2	30	— 1.1	88	n.	16	7.2	.....	.....	10 n	.....	n.	0.02	0.5	light snow	P. T. Jenkins.
Punta Rassa, Florida	30.05	763.3	30.06	763.5	64	17.8	87	e.	8	3.6	.....	9 c	1 s	w.	.....	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.03	752.6	30.00	762.0	43	6.1	93	nw.	4	1.8	.....	5 c	0	nw.	.....	0	0	fair	J. R. Williams.
Rochester, New York	29.67	753.6	30.38	771.6	15	— 9.4	83	nw.	10	4.5	.....	8 k	0	nw.	.....	0.08	2.0	cloudy	E. W. McGann
Roseburg, Oregon	29.72	754.9	30.29	769.4	36.5	2.5	75	nw.	4	1.8	.....	1 c	0	w.	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.90	759.4	29.98	761.5	49.0	9.4	93	s.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	J. A. Barwick
St. Louis, Missouri	29.57	751.1	30.21	767.3	30.0	— 1.1	94	e.	14	6.3	.....	.....	10 s	.....	e.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.28	769.1	30.31	769.9	— 5	—20 6	100	nw.	16	7.2	.....	0	8 s	.....	nw.	0	0	cloudy	A. P. Leavitt
St. Paul, Minnesota	29.30	744.2	30.24	768.1	16.5	— 8.6	83	se.	1	0.4	.....	4 cs	2 s	w.	.....	0	0	fair	P. F. Lyons.
St. Vincent, Minnesota	29.07	738.4	30.04	763 0	15	— 9.4	83	s.	17	7.6	.....	.....	10 n	.....	.....	inap.	inap.	light snow	C. B Dilley.
Salt Lake City, Utah	25.54	648.7	30.10	764.5	30	2.2	64	calm	0	0	.....	10 k	0	sw.	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.03	737.3	29.75	755.6	63.5	17.5	93	se.	3	1.3	.....	.....	10 s	.....	se.	0.04	1.0	cloudy	T. J. Kenan.
San Diego, California	29.95	760.7	30.02	762.5	53.3	11.8	88	n.	2	0.9	.....	.....	10 n	.....	.....	0.01	0.3	light rain	A. C. Dobbins.
Sandusky, Ohio	29.67	753.0	30.39	771.9	20	— 3.3	76	e.	18	8 0	.....	0	8 s	.....	.....	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.18	766.6	30.21	767.3	29.0	— 1.7	77	n.	31	13.9	.....	0	0	.....	.....	inap.	inap.	clear	B. A. Blundon.
San Francisco, California	29.93	760.2	30.00	762.0	49	9.4	89	s.	9	4.0	.....	.....	10 s	.....	sw.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	22.97	583.4	30.05	763.3	32	0.0	92	n.	14	6.3	.....	.....	fg.	.....	.....	0.16	4.1	dense fog	H. U. Jones.
Savannah, Georgia	30.04	763.0	30.14	765.5	54	12.2	72	nw.	2	0.9	.....	1 c	fg.	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.25	666.7	30.10	764.5	26	— 2.2	88	nw.	10	4.5	.....	.....	10 n	.....	n.	0.02	0.5	light snow	A. L. Mathews.
Shreveport, Louisiana	29.68	753.9	29.93	760 2	55	12.8	100	e.	4	1.8	.....	.....	10 n	.....	.....	0.67	17.0	light rain	E. N. Meekins.
Sill, Fort, Indian Territory	28.56	725.4	29.87	758.7	51.5	10.8	92	nw.	4	1.8	.....	.....	10 n	.....	.....	0.37	9.4	heavy rain	W. M. Mattingly.
Silver City, New Mexico	24.08	611.6	29.93	760.2	33.5	0.8	91	nw.	11	4.9	.....	0	8 s	.....	.....	0.21	5.3	cloudy	N. D. Lane.
Sitka, Alaska	29.90	759.4	29.90	761.0	38.1	3.4	77	e.	8	3.6	.....	.....	10 ks	.....	e.	0.11	2.8	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.47	748.5	29.97	761.2	50.5	10.3	86	e.	5	2.2	.....	.....	10 n	.....	.....	inap.	inap.	light rain	J. B. Campbell.
Smithville, North Carolina	30.13	765.3	30.17	766.3	51	10.6	72	ne.	7	3.1	.....	3 cs	0	.....	.....	0	0	clear	O. Parker.

STATIONS.	Barometer: Corrected for instrumental error and for temperature.		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.06	712.7	30.19	766.8	30.7	— 0.7	90	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear.	H. Clifford.
Springfield, Illinois	29.54	750.3	30.27	768.8	29	— 1.7	73	e.	12	5.4	.....	2 c	3 s	W.	W	0	0	fair.	T. B. Jennings
Springfield, Missouri	28.53	724.6	30.04	763.0	48.0	8.9	86	se.	10	4.5	.....	0	5 ks	.....	sw.	0	0	fair.	J. H. Bryce.
Starkville, Miss	29.57	751.1	30.07	763.8	51	10.6	93	ne.	5	2.2	.....	.....	10 n	.....	.....	0.24	6.1	light rain.	C. Dill.
Stevenson, Fort, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Schneider.
Stockton, Fort, Texas	26.74	679.2	29.88	758.9	45	7.2	93	w.	4	1.8	.....	2 k	0	sw.	.....	0.12	3.0	clear.	A. J. Warren.
Thatcher's Island, Mass	30.04	763.0	30.10	764.5	26.0	— 3.3	88	n.	35	15.6	.....	.....	10 n	.....	n.	0.15	3.8	light snow.	G. Liebmann.
Thomas, Camp, Arizona	27.22	691.4	30.05	763.3	47	8.3	86	calm	.....	.....	0	5 ck	2 s	.....	.....	0	0	fair.	J. T. Fitzgerald.
Toledo, Ohio	29.65	753.1	30.39	771.9	21	— 6.1	70	ne.	17	7.6	.....	1 cs	0	W.	.....	inap.	inap.	clear.	A. Buell.
Tucson, Arizona	27.51	698.7	29.99	761.7	43	6.1	76	se.	2	0.9	.....	.....	9 ks	.....	.....	0	0	cloudy	J. L. Whiteside
Umatilla, Oregon	29.93	760 2	30.31	769.9	26	— 3.3	88	se.	5	2.2	.....	0	0	.....	.....	0	0	clear.	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	51.3	10.7	61	sw.	.....	.....	1	.....	10 s	.....	sw.	0	0	cloudy	O. L. Pease.
Vicksburg, Mississippi	29.67	753.6	29.94	760.5	58.2	14.6	92	e.	2	0.9	.....	.....	10 s	.....	s.	0.77	19.6	cloudy	James Kenealy.
Visalia, California	29.59	751.6	29.97	761.2	46.2	7.9	85	calm	0	0	.....	4 cs	0	.....	.....	0	0	fair.	O. D. Stewart
Washakie, Fort, Wyoming.	24.22	615.2	29.98	761.5	17.3	— 8.2	69	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.16	766.1	30.28	769.1	35.0	1.7	60	nw.	8	3.6	.....	5 c; k	0	nw.	.....	0.59	15.0	fair.	B. M. Purssell.
West Las Animas, Colorado	25.81	655 6	29.94	760.5	31	— 0.6	88	n.	5	2.2	.....	.....	10 s	.....	.....	inap.	inap.	threatening	F. H. Brandenburg
Williamsport, Pa	29.69	754.1	30.32	770.1	23	— 5.0	61	nw.	6	2.7	.....	0	1 ks	.....	nw.	0	0	clear.	B. F. Hough.
Wilmington, N. Carolina	30.13	765.3	30.19	766.8	50	10.0	72	ne.	5	2.2	.....	.....	10 s	.....	n.	0	0	cloudy.	Samuel A. Haney.
Winnemucca, Nevada	25.58	649.7	30.10	764.5	33.0	0.6	71	sw.	4	1.8	.....	8 ck	0	W.	.....	0	0	cloudy	J. Grover.
Yankton, Dakota	28.65	727.7	30.07	763.8	20	— 6.7	88	se.	11	4.9	.....	.....	10 n	.....	.....	0.07	1.8	light snow.	J. H. Atfield.
Yuma, Arizona	29.78	756.4	29.93	760.2	47.7	8.7	99	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear.	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	21.96	557.8	.....	.....	55.0	12.8	77	s.	2	0.9	.....	2 ck	2 ks	se.	W.	0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.02	762.5	30.03	762.7	67	19.4	78	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	Robert Johnston.
Paramaribo, S. A.	30.01	762.2	30.01	762.2	74.5	23.6	93	e.	.....	.....	3	.....	8 ks	.....	e.	1.870	47.5	raining	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.36	745.7	29.92	760.0	78	25.6	84	calm	.....	.....	0	7 c	3 s	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.64	752.8	29.70	754.4	32	0.0	78	ne.	.....	.....	3	0	8 ks	.....	.....	0.04	1.0	light snow.	W. J. Fisher.
St. Thomas, W. I.	29.97	761.2	30.10	764.5	74	23.3	76	e.	.....	.....	.....	2 c	4 k	e.	e.	0.08	2.0	fair.	Ang. Wallon.
Havana, Cuba	29.95	760 7	30.02	762.5	69.2	20.7	81	e.	2	0.9	.....	6 cs	0	W.	.....	0	0	fair.	Benito Vines, S. J.
York Factory, B. A.	30.10	764 5	30.18	766.0	—18.5	—28.1	66	nw.	13	5.8	.....	2 c	0	nw.	.....	0	0	fair.	Fortesque & Wood.

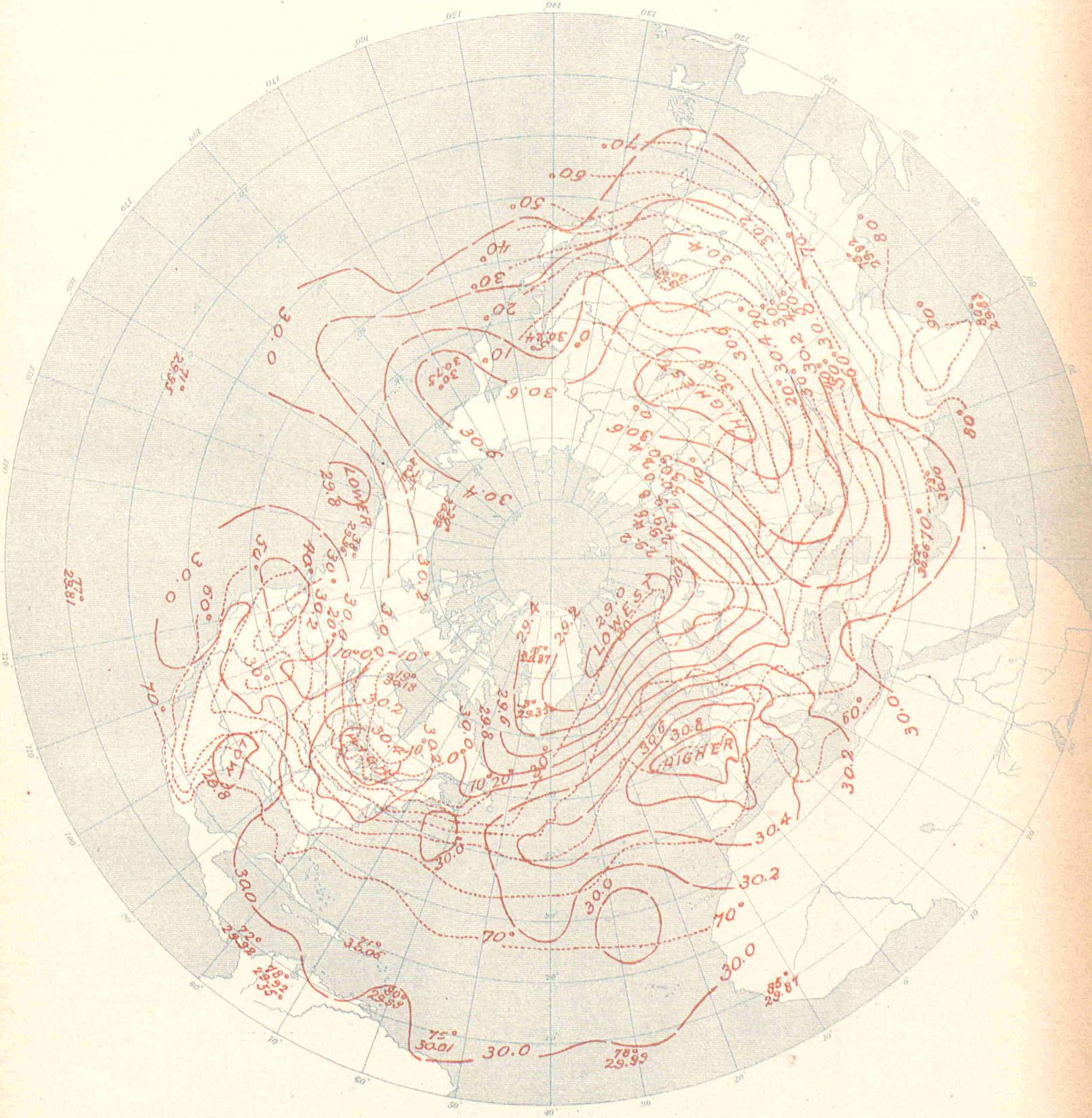
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer: reduced to sea-level		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell. Character.	Sea-swell. Direction from	Weather.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Condor, N. 32° 05′ E. 27° 40′	30.03	762.7	55	12.8	76	n.	.....	.....	3-4	.....	8	nne.	.....	.....	.....	4	nne.	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.10	764.5	66	18.9	87	sse.	.....	.....	1	.....	8	sse.	.....	.....	.....	.....	.....	raining.
H. M. S. Dido, N. 19° 38′, W. 74° 00′	30.11	764.8	76	24.4	.....	e.	.....	.....	5	.....	3	e.	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Fawn, N. 39° 22′, W. 31° 35′	30.33	770.4	57	13.9	87	ne.	.....	.....	1	.....	9	.....	.....	.....	.....	2	sse.	d. clouds.
H. M. S. Monarch, Port Said, Egypt	29.87	758.7	68	20.0	74	ssw.	.....	.....	1	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Minotaur, Vigo Bay, Spain	30.69	779.5	56	13.3	71	ene.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Tyne, N 14° 25′, W 51° 30′	30.01	762.2	76	24.4	81	e.	.....	.....	4	.....	1	.....	.....	.....	.....	3	e.	blue sky.
H. M. Frigate Vanadis, N. 37° 53′, E. 9° 06′	30.53	775.5	58.6	14.8	70	wnw	.....	.....	3	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
U. S. Navy Yard, Portsmouth, N. H.*	30.07	763.8	19	— 7.2	?	ne.	12	5.4	.....	.....	10	.....	ne.	0	0	.....	.....	cloudy.
U. S. S. Alliance, N. 23° 23′, W. 80° 42′	30.05	763.3	75	23.9	95	ese.	.....	.....	2	.....	8	.....	.....	0	0	sm'h	.....	cloudy.
U. S. S. Kearsarge, Cartagena, U. S. C.	29.86	758.4	75	23.9	90	ene.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Lancaster, Southampton, Eng.	30.86	783.8	53	11.7	66	nw.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. Portsmouth, Ft. Royal W. I.	29.98	761.5	75	23.9	100	ne.	.....	.....	2	.....	2	.....	e.	.....	.....	sm'h	.....	clear.
U. S. S. Powhattan, N. 33° 27′, W. 69° 47′	30.10	764.5	68	20.0	74	sw.	.....	.....	4	.....	8	.....	.....	.....	.....	mod.	s.;w.	cloudy.
U. S. S. Saratoga, N. 37° 21′, W. 66° 18′	30.02	762.5	58	14.4	100	nw.	.....	.....	3–6	.....	5?	.....	nw.	h'vy	h'vy	r'gh	nw.	overcast?
U. S. S. St. Louis, League Island, Pa.	30.24	768.1	29	— 1.7	59	nnw.	10	4.5	.....	.....	2	.....	.....	0	0	.....	.....	clear.
U. S. S. Swatara, Hampton Roads, Va*	30.30	769.6	43	6.1	83	n.	.....	.....	1	.....	5	.....	n.	.....	.....	.....	.....	fair.
U. S. S. Tennessee, Aspinwall, Panama*	29.91	759.7	79	26.1	82	n.	12	5.4	.....	.....	8	.....	.....	0	0	mod.	n	cloudy.
U. S. S. Vandalia, N. 14° 07′, W. 74° 32′	29.98	761.5	78	25.6	82	ene.	.....	.....	3	.....	5	.....	e.	.....	.....	sm'h	.....	fair.
U. S. S. Yantic, N. 27° 24′, W. 90° 39′	30.02	762.5	73	22.8	100	ese.	.....	.....	4–5	.....	10	.....	.....	.....	.....	sm'h	.....	overcast.
S. S. British Crown, N. 51° 18′ W. 13° 07′†	30.74	780.8	50	10.0	.....	w.	.....	.....	4	.....	10	.....	nw.	3 h'r	3 h'r	hv'y	nw.	hazy.
S. S. Lord Clive, N. 43° 45′, W. 50° 10′	.....	.....	.....	.....	.....	ssw.	.....	.....	4	.....	10	.....	wsw.	0	0	mod.	wsw.	cloudy.
S. S. Ohio, N. 39° 34′, W. 72° 08′†	30.12	765.0	.....	.....	.....	nnw.	.....	.....	6	.....	3	.....	nnw.	.....	.....	mod.	nnw.	fair.
S. S. Pennsylvania, N. 44° 47′, W. 52° 45′†	30.21	767.3	29	— 1.7	100	w.	.....	.....	6	.....	4	.....	nw.	.....	.....	sm'h	w.	fine.
S. S. Circassian, N. 40° 48′, W. 67° 35′ *	30.27	768.8	39	3.9	91	nw.	.....	.....	5	.....	8	.....	n.	0	0	2	nw.	d. clouds.
S. S. Nova Scotian, off Half-way Rock, Maine	30.19	766.8	19	— 7.2	.....	nne.	.....	.....	3	.....	8	.....	n.	.....	.....	sll't	n.	fair.
S. S. Manitoban, Portland, Me	30.05	763.3	20	— 6.7	.....	nw.	.....	.....	2	.....	4	.....	nw.	0	0	.....	.....	fair.
S. S. Jason, N. 44° 17′ W. 48° 06′	.....	.....	32.0	0.0	.....	ssw.	.....	.....	6	.....	7 n	.....	.....	.....	.....	5	sw.	raining.
S. S. Alvo, Petit Goave, Hayti, W. I.	30.04	763.0	73	22.8	.....	e.	.....	.....	1–2	9 cs	0	calm	.....	0	0	.....	.....	
S. S. Alene, N. 18° 02′, W. 76° 00′ *†	30.05	763.3	.....	.....	.....	ene.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	nne.	fine.
S. S. Ailsa, N. 16° 46′, W. 76° 00′†	30.09	764.3	80	26.7	82	ne.	.....	.....	4	.....	.....	.....	.....	0	0	mod.	ne.	fair
S. S. Bolivia, Glasgow, Scotland	30.68	779.3	48	8.9	.....	wsw.	.....	.....	4	.....	.....	.....	ne	0	0	mod.	ne.	fair
S. S. Dorian, N. 43° 58′, W. 49° 24′	30.38	771.6	33	0.6	.....	se.	.....	.....	4	.....	10	.....	.....	3 h'r	3 h'r	.....	.....	covered.
S. S. Landaff City, N. 43° 56′, W. 48° 27′†	30.20	767.1	30	— 1.1	.....	ese.	.....	.....	4	.....	10	.....	w	snow	snow	long	w.	overcast.
S. S. Bothnia, N. 46° 14′ W. 41° 14′	30.31	769 9	41	5.0	91	nw.	.....	.....	4	.....	9	.....	s.	shr's	shr's	mod.	w.	cloudy.
S. S. Pavonia, N. 41° 08′, W. 63° 28′	29.85	758.2	44	6.7	84	sse.	.....	.....	4	.....	8	.....	nw.	15 h'r	15 h'r	con.	.....	overcast.
S. S. Canada, N. 46° 12′, W. 41° 40′	30.50	774.6	37.4	3.0	.....	nw.	.....	.....	3	.....	10	.....	calm	0	0	sll't	s.	cloudy.
S. S. Ville de Marseilles, Cape Haytien, W. I†	30.15	765.8	72	22.2	.....	ne.	.....	.....	2	ck	.....	nw.	.....	.....	.....	h'vy	w.	covered.
S. S. Wyoming, N. 40° 28′, W. 70° 00′	.....	.....	32	0.0	.....	nnw.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Vandalia, N. 47° 27′, W. 42° 14′	30.43	772.9	39.2	4.0	90	w.	.....	.....	6	.....	4	.....	nnw.	0	0	long	nw.	fair.
S. S. Wieland, N. 49° 45′, W. 19° 21′	30.72	780.3	.....	.....	.....	sw.	.....	.....	4	.....	8	.....	w.	.....	.....	6	w.	cloudy.
S. S. City of Berlin, N. 48° 30′, W. 33° 34′	30.21	767.3	54	12.2	86	wnw.	.....	.....	4	.....	8	.....	sw.	0	0	mod.	sw.	foggy.
S. S. Mentmore, N. 51° 27′, W. 8° 27′ *†	30.72	780.3	.....	.....	.....	ssw.	.....	.....	4	.....	10	.....	w.	24 h'r	24 h'r	high	sw.	overcast.
S. S. Archimedes, N. 34° 34′, W. 14° 40′	30.20	767.1	.....	.....	.....	ese.	.....	.....	5	.....	10	.....	sw.	0	0	sm'h	sw.	gloomy.
S. S. Colorado, N. 28° 39′, W. 79° 58′†	30.12	765.0	70	21.1	.....	ne.	.....	.....	4	.....	6	.....	se.	0	0	long	ene.	dense haze.
S. S. Rio Grande, N. 26° 26′, W. 87° 32′†	30.07	763.8	78	25.6	.....	ese.	.....	.....	2	.....	2	.....	n.	0	0	cross	une.	clear.
S. S. San Marcos, off Florida Reefs, Fla.	.....	.....	76	24.4	.....	e.	.....	.....	3	.....	1	.....	se.	0	0	mod.	ese.	clear.
S. S. Chalmette, N. 26° 22′, W. 85° 27′ †...	30.03	762.7	72	22.2	.....	ese.	.....	.....	4	.....	1	.....	e.	0	0	sm'h	.....	fine.
S. S. New York, N. 34° 50′, W. 75° 30′ †	30.19	766.8	57	13.9	.....	n.	.....	.....	5	.....	5	.....	se.	0	0	sm'h	.....	fair.
S. S. Lone Star, N. 34° 35′ W. 76° 05′†	30.09	764.3	54	12.2	.....	n.	.....	.....	6	.....	5	.....	n.	0	0	mod	n.	smoky.
S. S. Alleghany, Boston, Mass	.....	.....	28	— 2.2	.....	n.	.....	.....	3	.....	2	.....	ne.	0	0	small	n	fine.
S. S. City of Merida, N. 19° 11′ W. 96° 08′†	29.91	759.7	72	22.2	.....	e.	.....	.....	2	.....	2	5?	w.	0	0	.....	.....	cloudy?
													e.	0	0	light	ne.	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Denmark, N. 47° 08′, W. 42° 20′†	30.31	769 9	32	0.0	.....	wsw.	.....	.....	6	.....	8	.....	wsw.	0	0	mod.	w.	cloudy.
S. S. Erin, N. 48° 09′, W. 28° 57′	30.34	770.6	51	10.6	.....	sw.	.....	.....	6	.....	10	.....	sw.	0	0	r'gh	sw.	overcast.
S. S. Greece, N. 50° 04°, W 3° 39′	30.81	782.6	57	13.9	.....	wnw.	.....	.....	3	.....	5	.....	wnw.	0	0	sm'h	.....	fine.
S. S. Helvetia, N. 43° 50′, W. 51° 00′	30.23	767.8	30	— 1.1	.....	s.	.....	.....	6	.....	10	.....	s.	0	0	long	sw.	overcast.
S. S. The Queen, N. 40° 38′, W. 71° 14′	30.06	763.5	31	— 0.6	.....	nw.	.....	.....	6	.....	2	.....	nw.	4 h'r	4 h'r	mod.	nw.	clear.
S. S. America, N. 50° 01′, W. 3° 53′	.....	.....	50.0	10.0	93	calm	.....	.....	0	.....	1	.....	w.	0	0	sm'h	.....	clear.
S. S. Elbe, N. 49° 15′ W. 27° 00′	30.43	772.9	53	11.7	.....	ssw.	.....	.....	6	.....	8	.....	ssw.	0	0	r'gh	var.	cloudy.
S. S. Hermann, N. 43° 23′, W. 45° 50′	30.45	773.4	41.9	5.5	69	nnw.	.....	.....	2	.....	2	.....	nnw.	0	0	3	w.	fair.
S. S. Neckar, N. 49° 57′, W. 22° 55′	30.52	775.2	51.0	10.6	100	ssw.	.....	.....	6	.....	2	.....	s.	0	0	long	s.	hazy.
S. S. Weser, N. 43° 24′, W. 49° 34′	30.39	771.9	.....	.....	.....	se.	.....	.....	3	.....	10	.....	s.	2 h'r	2 h'r	long	w.	cloudy.
S. S. Muriel, St. Kitts, Windward Islands, W. I*	30.06	763.5	78	25.6	.....	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Belgenland, Antwerp, Belgium*†	.....	.....	45	7.2	100	wnw.	.....	.....	0	.....	0	.....	.....	1 h'r	1 h'r	.....	.....	clear.
S. S. Rhynland, N. 42° 10′, W. 62° 00′	29.94	760.5	34	1.1	90	w.	.....	.....	4	.....	9	.....	w.	0	0	long	w.	dull.
S. S. Pennland, N. 48° 34′, W. 34° 10′	30.24	768 1	48	8.9	78	w.	.....	.....	6	.....	10	.....	w.	13 h'r	13 h'r	high	sw.	raining.
S. S. Waesland, N. 47° 57′, W. 38° 29′	30.35	770.9	42	5.6	.....	wnw.	.....	.....	5	.....	9	.....	wsw.	hail	hail	long	w.	cloudy.
S. S. Zeeland, N. 46° 54′ W. 41° 32′ *†	30.32	770.1	30	2.2	.....	wnw.	.....	.....	5	.....	5?	.....	nw.	0	0	h'vy	w.	clear?
S. S. P. Caland, N. 40° 35′, W. 71° 50′	30.08	764.0	37.8	3.2	87	nw.	.....	.....	6	.....	3	.....	nw.	.....	.....	3	nw.	fair.
S. S. Rotterdam, N. 49° 54′, W. 5° 15′*	30.89	784.7	56.3	13.5	80	w.	.....	.....	1	.....	1	.....	w.	.....	.....	4	w.	clear.
S. S. Schiedam, N. 48° 49′, W. 25° 10′	30.44	773.2	55.2	12.9	.....	ssw.	.....	.....	5	.....	7	.....	sw.	4 h'r	4 h'r	long	sw.	hazy.
S. S. W. A. Scholten, Rotterdam, Nethlands*	30.73	780.5	47.0	8.3	70	n.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	.....
S. S. Zaandam, N. 50° 50′, W. 25° 09′	30.41	772.4	58.6	14.8	89	ssw.	.....	.....	5	.....	7 n	.....	sw.	rain	rain	4	ssw.	cloudy.
S. S. Caracas, La Guayra, Venezuela†	30.02	762.5	75	23.9	77	nnw.	.....	.....	1	.....	3	.....	ene.	0	0	sm'h	.....	fine.
S. S. Claudius, Port Antonio, Jamaicia†	30.10	764.5	69.5	20.8	85	sw.	.....	.....	1	.....	3	.....	e.	0	0	.....	.....	fair.
S. S. State of Florida, N. 43° 35′, W. 52° 59′	.....	.....	38	3.3	.....	s.	.....	.....	4	.....	4	.....	se.	0	0	mod.	w.	clear.
S. S. Lepanto, N. 38° 02′, W. 9° 07′*†	30.00	777.2	62	16.7	.....	ese.	.....	.....	4	.....	4	.....	se.	0	0	mod.	s.	fair.
S. S. Marengo, N. 46° 05′, W. 39° 34′†	30.30	769.0	.....	.....	.....	w.	.....	.....	5	.....	4	.....	w.	6 h'r	6 h'r	mod	w.	squally.
S. S. Salerno, N. 50° 05′ W. 4° 26′†	30.98	786.9	47	8.3	.....	wnw.	.....	.....	2	.....	2	.....	w.	0	0	sm'h	w.	fine.
S. S. Brooklyn, N. 43° 07′, W. 95° 07′.	.....	.....	29	— 1.7	.....	ne.	.....	.....	2	.....	.....	.....	ne.	6 h'r	6 h'r	long	sw.	hazy.
S. S. Toronto, N. 44° 39′, W. 44° 12′*	30.44	773.2	34	1.1	.....	wnw.	.....	.....	3	.....	3	.....	nw.	10 h'r	10 h'r	h'vy	w.	fair.
S. S. Lake Huron, N. 42° 01′ W. 51° 45′	.....	.....	46	7.8	.....	ese.	.....	.....	6	.....	8	.....	sse.	0	0	mod.	se.	overcast.
S. S. Olbers, N. 180 05′. W. 24° 37′*†	29.92	760.0	74	23.3	.....	se.	.....	.....	2	.....	4	.....	nw.	0	0	mod.	nw.	fine.
S. S. Plantyn, N. 40° 24′, W. 67° 58′	30.02	762 5	.....	.....	.....	.....	.....	.....	0	.....	5	.....	w.	1 h'r	1 h'r	cross	wsw.	squally.
S. S. Catherine Whiting, Delaware Bay†	30.31	769.9	68	20.0	.....	n.	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Norman, N. 38° 58′, W. 75° 04′*†	30.38	771.6	.....	.....	.....	n.	.....	.....	5	.....	.....	.....	.....	0	0	sm'h	.....	clear.
S. S. Saxon, Philadelphia, Pa†	30.27	768.8	.....	.....	.....	nw.	.....	.....	5	.....	2	.....	.....	.....	.....	.....	.....	fine.
S. S. Adriatic, N. 50° 53′, W. 14° 43′†	30.83	783.1	46	7.8	.....	sse.	.....	.....	4	.....	5	.....	sse.	0	0	long	wnw.	fair.
S. S. Baltic, Queenstown, Ireland*	30.83	783.1	48	8.9	63	w.	.....	.....	3	.....	5	.....	w.	0	0	sm'h	.....	d. clouds
S. S. Republic, N 41° 31′, W. 63° 40′ †	29.88	758.9	45	7.2	92	s.	.....	.....	4	.....	10	.....	s.	4 h'r	4 h'r	3	w.	raining.
S. S. Iowa, N. 55° 24′, W. 25° 12′*†	30.53	775.4	54	12.2	.....	ssw.	.....	.....	6	.....	9	.....	ssw.	0	0	r'gh	ssw.	cloudy.
Auckland, N. 21° 00′, W. 40° 30′	30.13	765.3	72	22.2	71	ne.	.....	.....	4	.....	4	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Chamois, N. 17° 38′, W 65° 55	30.06	763.5	77.5	25.3	68	ene.	.....	.....	5	.....	7	.....	.....	.....	.....	.....	.....	d clouds.
Bk. Commewyne, N. 34° 04′, W 25° 19′*	30.01	762.2	63.0	17.2	89	ene.	.....	.....	5	.....	8	.....	.....	.....	.....	.....	.....	misty.
S. S. City of Agra, N. 44° 21′, W. 28° 40′	30.49	774.4	60	15.6	94	se.	.....	.....	5	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Ptolemy, N. 28° 20′. W. 65° 00′	30.19	766.8	71	21.7	90	s.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
Bg. Abbie Clifford, N. 28° 30′, W. 79° 45′ †	30.14	765.5	71	21.7	.....	e.	.....	.....	1	.....	9	.....	var.	0	0	sm'h	ne.	hazy.
Bk. Aquidneck, N. 16° 31′, W. 38° 17′*†	30.20	767.1	.....	.....	.....	e.	.....	.....	2	.....	.....	.....	e.	0	0	light	e.	clear.
Bg. Alcira, Maracaybo, Venezuela, S. A.	30.00	762.0	82	27.8	.....	nne.	.....	.....	2	.....	6?	.....	ne.	0	0	.....	.....	clear.?
Schr. Anna A. Holton, Tampico, Mexico†	29.91	759.7	72	22.2	.....	s.	.....	.....	4	.....	10	.....	s.	0	0	sm'h	.....	hazy.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.14	765.5	76	24.4	.....	ene.	.....	.....	2	.....	10	.....	e.	0	0	.....	.....	cloudy.
Bk. Anna Thormann, N. 32° 38′ W. 39° 07′*	30.30	769.0	62.4	16.9	69	nne.	.....	.....	4	.....	9 k	.....	ese.	light	light	mod.	ese.	cloudy.
Bk. Aureola, N. 51° 20′ W. 4° 05′*†	30.90	784.8	61	16.1	.....	w.	.....	.....	3	.....	3	.....	w.	0	0	mod.	w.	clear.
Bk. Achille F, N. 51° —′, W. 7° —′†	30.91	785.1	48.5	9.2	82	sw.	.....	.....	3	.....	4	.....	ssw.	0	0	long	sw.	.....
Bg. Annie R. Storer N. 16° 20′, W. 64° 00′*†	30.04	763.0	.....	.....	.....	ene.	.....	.....	4	.....	2	.....	ene.	0	0	sm'h	ne.	fair.
S. S. Burswell, Queenstown, Ireland*†	30.65	778.5	58	14.4	.....	nw.	.....	.....	4	.....	3	.....	nw.	0	0	sm'h	.....	fair.
Bk. Pilgrim, N. 16° 20′, W. 39° 40′*†	30.10	764.5	.....	.....	.....	e.	.....	.....	5	.....	1	.....	e.	10 h'r	10 h'r	mod.	e.	clear.
Bg. Clara M. Goodrich, N. 38° 10′, W. 70° 50′†	30.02	762.5	.....	.....	.....	nnw.	.....	.....	5	.....	2?	.....	wsw.	0	0	r'gh	wsw.	cloudy.?
Bk. Champion, N. 52° 39′, E. 4° 00′	.....	.....	49	9.4	.....	nw.	.....	.....	6	.....	2	.....	nw.	0	0	cross	nnw.	hazy.
Bkt. C. S. Bushnell, Alicante, Spain	30.68	779.3	.....	.....	.....	var.	.....	.....	2	.....	0	.....	.....	0	0	mod.	e.	fine.
S. Cornelius, N. 46° 29′, W. 16° 02′†	30.68	779.3	52.7	11.5	.....	se.	.....	.....	6	.....	10	.....	.....	0	0	l ug	wnw	cloudy.
Schr. C. R. Flint, N. 34° 20′, W. 66° 00′*†	30.00	763.5	62	16.7	.....	sw.	.....	.....	3	.....	8	.....	sw.	0	0	rg'h	s.	fair.
Bk. Commerce, Cadiz, Spain†	30.35	770.9	60	15.6	.....	e.	.....	.....	8	.....	2	.....	e.	0	0	.....	.....	fine.
S. S. Canonbury, N. 27° 22′, W. 57° 20′ *†	30.28	769.1	.....	.....	.....	ne.	.....	.....	1	.....	3	.....	ne.	1 h'r	1 h'r	sm'h	.....	clear.
Bk. Chas. Stewart, N. 9° 10′, W. 35° 30′†	30.09	764.3	80	26.7	.....	ene.	.....	.....	6	.....	5	.....	ene,	0	0	rg'h	ene.	squally.
Schr. Edith R. Seward, San Domingo, Hayti, W. I†	30.00	762.0	72	22.2	.....	nne.	.....	.....	2	.....	2	.....	nne.	0	0	mod.	se.	clear.
S. E. J. Spicer, N. 39° 27′, W. 54° 40′	30.25	768.3	55	12.8	93	ssw.	.....	.....	6	.....	1	.....	wsw.	6 h'r	6 h'r	mod.	w.	clear.
Bk. L. D. Bigelow, N. 32° 51′, W. 48° 20′*†	30.10	764.5	.....	.....	.....	s.	.....	.....	1	.....	5	.....	var.	0	0	mod.	se.	misty.
Schr. F. E. McDonald, N. 28° 27′, W. 61° 54′†	30.21	767.3	.....	.....	.....	e.	.....	.....	1	.....	.....	.....	.....	0	0	long	nnw.	fine.
S. S. Foscolio, N. 30° 34′, W. 10° 31′†	30.69	779.5	.....	.....	.....	e.	.....	.....	6	.....	1	.....	e.	0	0	sm'h	e.	clear.
S. Festina Lente, N. 54° 41′, W. 20° 55′	30.22	767.6	49.5	9.7	.....	ssw.	.....	.....	7	.....	10	.....	s.	0	0	h'vy	w.	cloudy.
Bk. Guchen, N. 45° 35′, W. 2° 00′ *†	30.74	780.7	49.1	9.5	.....	ne.	.....	.....	5	.....	5?	.....	ne.	.....	.....	sm'h	nw.	clear.?
S. Hedwig, N. 57° 48′, E. 1° 23′	30.38	771.7	43.9	6.6	91	w.	.....	.....	6	.....	6	.....	w.	5 h'r	5 h'r	5	w.	squally.
Bk. Hattie G. McFarland, Pascagoula, Miss*†	30.06	763.5	63	17.2	.....	e.	.....	.....	4	.....	10	.....	e.	0	0	.....	.....	threatening.
Bk. Horace Scudder N. 5° 46′, W. 32° 12′*†	29.99	761.7	78	25.6	.....	ene.	.....	.....	5	.....	4	.....	ne.	0	0	long	ene.	fine.
Schr. Isabel Alberto, N. 26° 44′, W. 74° 52′†	30.10	764.5	.....	.....	.....	calm	.....	.....	0	.....	1	.....	s.	0	0	high	ne.	clear.
S. S. J. W. Wilson, Tuspan, Mexico*†	29.75	755.6	67	19.4	.....	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	.....	foggy.
S. J. W. Gielde neister, N. 49° 58′ W. 2° 32′	30.86	783.8	49.6	9.8	69	nw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe*†	30.10	764.5	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
Bg. Lilian, N. 28° 00′, W. 66° 05′†	30.11	764.8	72	22.2	.....	sse.	.....	.....	3	.....	0	.....	.....	0	0	r'gh	var.	clear
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3	.....	.....	.....	e.	.....	.....	1	.....	2	.....	ne.	0	0	.....	.....	fine.
S. S. Madrid, N. 35° 45, W. 3° 58′*†	30.44	773 2	58	14.4	87	e.	.....	.....	9	.....	0	.....	.....	0	0	.....	.....	hazy
Bk. Mary A. Troop, Sharpness Port, Eng*†	30.70	779.8	.....	.....	.....	wnw.	.....	.....	8	.....	3	.....	wnw.	0	0	.....	.....	fair.
Schr. Minnie A. Bonsall, New York, N. Y†	30.23	767.8	55	12.8	.....	nnw.	.....	.....	1	.....	2	.....	calm	0	0	.....	.....	¼cloudy
Bgt. Myrtle, Saint Thomas, W. I*†	29.95	760.7	.....	.....	.....	ene.	.....	.....	3	.....	1	.....	ene.	0	0	.....	.....	fair.
S. M. P. Grace, N. 45° 22′, W. 26° 45′*	30.42	772.7	52	11.1	.....	sse.	.....	.....	4	.....	7	.....	sse.	sli't	sli't	sm'h	sse.	cloudy.
S. S. Mendoza, N. 20° 08′, W. 44° 44′*†	30.15	765.8	.....	.....	.....	ese.	.....	.....	4	.....	6?	.....	ese.	0	0	sm'h	.....	clear?
Bkt. Norena, N. 24° 30′, W. 80° 30′ *†	30.10	766.1	.....	.....	.....	se.	.....	.....	3	.....	3	.....	se.	1½h'r	1½h'r	mod.	ene.	fine.
Bk. Orpheus, N. 46° 58′, W. 14° 58′	30.63	778.0	55	12.8	.....	e.	.....	.....	2	.....	10 k	.....	.....	.....	.....	sm'h	.....	cloudy.
Bk. Ottawa, N. 34° 07′, W. 15° 00′*	30.22	767.6	66	18.9	.....	e.	.....	.....	5	.....	0	.....	.....	0	0	mod	e.	hazy.
Bk. Reindeer, N. 27° 36′ W. 71° 47′*	30.11	764.8	.....	.....	.....	sw.	.....	.....	4	.....	8	.....	w.	.....	.....	long	nne.	.....
S. Rudolph, N. 22° 30′ W. 50° 28′	.....	.....	76.0	24.4	.....	se.	.....	.....	2	.....	3	.....	se.	0	0	mod.	ese.	fair.
Bk. Rebus, N. 40° 11′, W. 15° 50′*	30.34	770.6	58	14.4	.....	ene.	.....	.....	4	.....	2	.....	ene.	0	0	long	nw.	hazy.
Bk. Sunbeam, N. 23° 42′, W. 38° 07′	30.11	764.8	71	21.7	75	ne.	.....	.....	5	.....	0	.....	.....	0	0	mod.	ene.	clear.
Bk. Scud, N. 40° 20′, W. 72° 44′*†	30.34	770.6	34	1.1	.....	nnw.	.....	.....	7	.....	0	.....	driz	driz	.....	sm'h	.....	clear.
Bk. Usko, N. 30° 35′, W. 27° 43′*†	29.72	754.9	65	18.3	.....	n.	.....	.....	5	.....	2	.....	n.	0	0	cross	var.	fair.
S. Vincenzo Accame, N. 43° 10′. W. 32° 04′†	30.51	775 0	60.8	16	.....	se.	.....	.....	4	.....	7	.....	sse.	1 h'r	1 h'r	r'gh	sse.	.....
Schr. Viola Reppard, N. 36° 41′ W. 74° 08′†	30.08	764.0	58	14.4	.....	n.	.....	.....	4	.....	1	.....	n.	0	0	mod.	ne.	clear.
Schr, Wm. Wiler, St. Thomas Island, W. I†	30.01	762.2	.....	.....	.....	nne.	.....	.....	6	.....	8	.....	ne.	0	0	.....	.....	hazy.
S. Wm. Woodbury, N. 59° 57′, W. 11° 46′	.....	.....	40	4.4	.....	wsw.	.....	.....	7	.....	10	.....	.....	.....	.....	high	w.	overcast.
S. S. Colon, Aspinwall, Panama†	29.95	760.7	79	26.1	.....	nne.	.....	.....	4	.....	1	.....	ne.	0	0	mod.	.....	clear.
District No. 2—South Atlantic.																		
U. S. S. Brooklyn, Montevideo, Uruguay*..	30.00	763.5	67	19.4	84	e.	6	2.7	.....	.....	5	.....	e.	0	0	.....	.....	fair.
U. S. S. Galena, Colonia, Uruguay*..	30.07	763.8	69	20.6	100	ene.	.....	.....	3	.....	5	.....	sw.	.....	.....	sm'h	.....	fair.
S. S. Grecian, Buenos Ayres, La Plata*..	30.09	764.3	70	21.1	85	e.	.....	.....	4	.....	2	.....	e.	2 h'r	2 h'r	.....	.....	clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2—South Atlantic.—Continued.																		
S. S. Hevelius, S. 16° —′, W. 36° —′†	30.16	766.1	82	27.8	.....	e.	.....	.....	6	.....	3	.....	e.	0	0	.....	.....	clear.
S. S. Caldew, S. 2° 58′, W. 19° 17′	29.95	760.7	80	26.7	85	se.	.....	.....	3	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. May Hulse, S. 58° 25′ W. 68° 45′	28.90	734.0	41.2	5.1	87	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	showery.
Bk. Ceres, S. 16° 31′, W. 34° 54′*	29.99	761.7	82.4	28.0	76	e	.....	.....	5	.....	5	.....	ese.	0	0	sm'h	ese.	fair.
Bk. Bare, S. 0° 32′, W. 28° 56′*†	30.30	769.6	80	26.7	.....	ne.	.....	.....	4	.....	9	.....	sse.	4 h'r	4 h'r	sm'h	sse.	cloudy.
S. Armenia, S. 4° 33′, W 33° 10′*	29.82	757.4	83	28.3	83	ese.	.....	.....	3	.....	2	.....	ese.	0	0	mod.	se.	clear.
Bk. Essex, S. 27° 07′, E. 4° 05′*†	30.05	763.3	75.0	23.9	.....	nw.	.....	.....	1	.....	2	.....	nw.	0	0	sm'h	sse.	fine.
Bk. E. L. Pettingill, S. 16° 39′, W. 29° 45′*†	30.10	764.5	82	27.8	.....	ene.	.....	.....	5	.....	2	.....	e.	0	0	sm'h	.....	
S. E. B. Sutton, S. 33° 06′, W. 48° 30†	30.08	764.0	74	23.3	76	ssw.	.....	.....	1	.....	5	.....	sw.	0	0	sm'h	ese.	fair.
S. Grecian, S. 35° 15′, W. 19° 10′†	29.85	758.2	70	21.1	85	sw.	.....	.....	5	.....	8	.....	var.	8 h'r	8 h'r	long	nw.	fair.
S. Sovereign of the Seas, S. 51° 46′, W. 47° 55′*†	29.20	741.7	43	6.1	100	sse.	.....	.....	1	.....	5	.....	.....	3 h'r	3 h'r	r'gh	n.	dense fog.
S. Titan, S. 40° 35′, W. 52° 59′*†	30.00	762.0	65	18.3	89	wsw.	.....	.....	5	.....	1	.....	w.	0	0	r'gh	ssw.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay †	30.14	765.5	68	20.0	.....	ese.	.....	.....	3	.....	5	.....	e.	0	0	.....	.....	fair.
District No. 3—North Pacific.																		
S. S. Mexico, N. 31° 09′ W. 116° 35′†	30.08	764.0	61	16.1	77	nw.	.....	.....	1	.....	10	.....	nw.	.....	.....	long	w.	cloudy.
S. S. Belgic, N. 39° 10′, E. 169° 21′*†	29.87	758.7	62	16.7	72	ese.	.....	.....	5	.....	8	.....	ese.	0	0	cross	var.	cloudy.
S. S. Coptic, N. 38° 00′ W. 176° 21′	30.18	766.6	56.0	13.3	69	ene.	.....	.....	4	.....	5	.....	ne.	0	0	mod	ne.	d. clouds.
S. S. Oceanic, N. 32° 04′ E. 132° 57′*	29.88	758.9	59	15.0	88	wnw.	.....	.....	5	.....	6	.....	sw.	.....	.....	mod	var.	fair.
S. S. Columbia, N. 38° 03′, W. 123° 11′†	29.96	761.0	48	8.9	85	ene.	.....	.....	1	.....	10	.....	e.	.....	.....	mod.	wnw.	cloudy.
S. S. Mississippi, N. 40° 52′, W. 124° 19′†	30.12	765.0	46	7.8	92	nnw.	.....	.....	6	.....	3	.....	nnw.	.....	.....	high	wnw.	fair.
S. S. Willamette, Seattle, W. T†	30.43	772.9	37	2.8	90	sse.	.....	.....	2	.....	3	.....	ese.	0.05	1.3	.....	.....	clear.
S. S. Ancon, San Francisco, Cal†	29.96	761.0	49	9.4	85	se.	.....	.....	1	.....	10	.....	sse.	.....	.....	.....	.....	misty.
S. S. City of Chester, Eureka, Cal *†	30.09	764.3	48	8.9	85	nw.	.....	.....	2	.....	10	.....	sw.	.....	.....	.....	.....	drizzling.
S. S. Dakota, Strait of Fuca*†	30.30	769.6	45	7.2	84	nw.	.....	.....	3	.....	8	.....	nnw.	0	0	light	nw.	cloudy.
S. S. G. W. Elder, N. 38° 00′, W. 123° 10′ †	30.09	764.3	48	8.9	85	nnw.	.....	.....	4	.....	10	.....	.....	0	0	mod.	n	overcast.
S. S. Orizaba, N. 32° 40′, W. 117° 14′ *†	30.00	762.0	56	13.3	87	calm	.....	.....	0	.....	.....	.....	sw.	0	0	sm'h	sw.	cloudy.
S. S. Queen of the Pacific, N. 45° 47′, W. 124° 04′ †	30.33	770.4	.....	.....	.....	nne.	.....	.....	2	.....	5?	.....	.....	.....	.....	.....	nw.	cloudy?
S. S. City of New York, N. 17° 33, W. 159° 01′†	29.95	760.7	75	23.9	81	n.	.....	.....	1	.....	10	.....	se.	20 h'r	20 h'r	mod	se.	cloudy.
S. S. City of Pekin, N. 28° 05′, E. 126° 23′†	30.14	765.5	55	12.8	80	nnw.	.....	.....	5	.....	10	.....	nw.	.....	.....	mod.	n.	cloudy.
S. S. City of Rio de Janeiro, N. 21° 08′, W. 105° 00′	.....	.....	68	20.0	70	nnw.	.....	.....	2	.....	4	.....	nw.	0	0	light	nnw.	fair.
S. S. Colima, Panama, Panama †	29.92	756.0	72	22.2	90	nw.	.....	.....	2	.....	1	.....	n.	0	0	.....	.....	clear.
S. S. San José, N. 18° 28′, W. 103° 48′†	29.99	761.7	78	25.6	82	se.	.....	.....	2	.....	2ns	.....	s.	0	0	long	w.	overcast.
H. M. S Curacoa, Kobe, Japan	.....	.....	47.5	8.6	92	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	raining.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.96	761.0	68	20.0	.....	calm	.....	.....	0	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Swiftsure, N. 10° 54′, W. 127° 51′	29.81	757.2	77	25.0	95	nne.	.....	.....	5–6	.....	8	ne.	.....	.....	.....	.....	.....	showery.
U. S. Naval Hospital, Yokohama, Japan*...	30.23	767.8	33.5	0.8	95	n.	.....	.....	1	.....	10	.....	.....	0.16	4.1	.....	.....	snowing.
U. S. S. Independence, Mare Island, Cal..	30.02	762.5	48	8.9	92	sw.	.....	.....	3	.....	10	.....	sw.	0	0	.....	.....	cloudy.
U. S. S. Lackawanna, Honolulu Sandwich, Islands*..	29.95	760.7	71	21.7	85	nne.	.....	.....	1	.....	2	.....	e.	.....	.....	.....	.....	clear.
U. S. S. Monocacy, N. 22° 34′, E. 115° 40′	30.10	764.5	61	16.1	94	ene.	.....	.....	5	.....	8	.....	e.	.....	.....	sm'h	.....	fair.
U. S. S. Palos, Tientsin, China*	30.38	771.6	27	—2.8	100	sse.	.....	.....	2	.....	8	.....	calm	.....	.....	.....	.....	fair.
U. S. S. Ranger, Mare Id, Cal	29.96	761.0	48	8.9	85	sw.	.....	.....	4	.....	10	.....	.....	0	0	.....	.....	overcast.
U. S. S. Richmond, Hong-Kong, China *	29.98	761.5	65	18.3	84	nw.	.....	.....	1	.....	10	.....	e.	0	0	.....	.....	cloudy.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.95	760.7	67	19.4	95	ne.	.....	.....	1	.....	8	.....	ne.	.....	.....	sm'h	.....	cloudy.
S. S. Scotia, Hong Kong, China	30.06	763.5	67.7	19.8	64	wnw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. Henry Failing, Wilmington, Calf	29.85	758.2	60	15.6	.....	var.	.....	.....	.....	.....	1	.....	nw.	0	0	sm'h	.....	fine.
Tamega, Macao, China	30.13	765.3	63 5	17.5	80	n.	.....	.....	3	.....	10	.....	.....	0	0	.....	.....	overcast.
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.95	760.7	66.5	19.2	92	sse.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	foggy.
H. M. S Heroine, Sandy Point, Patagonia	30.23	767.8	53	11.7	80	wsw.	.....	.....	4–6	.....	8	wsw.	.....	.....	.....	sm'h	.....	squally.
H. M. S. Kingfisher, S. 10° 09′, W. 109° 52′	29.93	760.2	76	24.4	.....	se.	.....	.....	4	.....	6	.....	.....	.....	.....	4	se.	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	29.79	756.7	70.3	21.3	85	ne.	.....	.....	5	.....	7	.....	.....	.....	.....	2	ne.	squally.
H. M. S. Liffey, S 29° 56′, W. 71° 20′	29.93	760.2	62	16.7	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	.....	d clouds.
H. M. S. Rocket, S. 50° 44′, W. 64° 35′	30.31	769.9	55	12.8	87	nw.	.....	.....	4	.....	10	.....	.....	.....	.....	4	w.	d. clouds.
H. M. S. Sylvia, Sandy Point, Patagonia	29.19	741.4	54.5	12.5	93	wsw.	.....	.....	2–4	.....	8	.....	.....	.....	.....	.....	.....	squally.
U. S. S. Essex, Callao, Peru	29.90	759.4	66	18.9	94	se.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	foggy.
U. S. S. Iroquois, S. 35° 23′, W. 97° 08′	30.36	771.1	72	22.2	95	sw.	.....	.....	2	.....	5	.....	sw.	.....	.....	long	s.	fair.
U. S. S. Onward, Callao, Peru*†	30.02	762.5	64	17.8	94	se.	.....	.....	2	.....	10	.....	n.	.....	.....	.....	.....	foggy.
U. S. S. Pensacola, S. 32° 54′, W. 71° 40′*	29.86	758.4	59	15.0	76	calm	.....	.....	0	.....	10	.....	.....	0	0	long	s.	cloudy.
British Merchant, S. 45° 01′, W. 132° 10′	29.81	757.2	51.5	10.8	72	se.	.....	.....	3	.....	2	.....	.....	.....	.....	.....	.....	showery.
Bk. Childwall, S. 27° 32′. W. 131° 31′*	29.68	753.9	74	23.3	.....	nnw.	.....	.....	3	.....	10	.....	nnw.	14 h'r	14 h'r	cross	var.	raining.
Bk. Edmund Phiney, S. 55° 42′, W. 73° 43′ †	29.21	741.9	46	7.8	.....	sw.	.....	.....	6	.....	8	.....	.....	4 h'r	4 h'r	h'vy	wsw.	clearing.
Bk. Gronsvaer, Auckland, New Zealand†	29.78	756.4	72.6	22.6	.....	ne.	.....	.....	6	.....	7	.....	nne.	3 h'r	3 h'r	.....	.....	stormy.
Bk. Godeffroy, S. 32° 54′, W. 90° 50′*	30.14	765.5	68.5	20.3	91	sse	.....	.....	4	.....	6	.....	sse.	rain	rain	mod.	s.	fair.
S. St. Francis, S. 1° 15′, W. 126° 00′†	29.90	759.4	76	24.4	.....	se.	.....	.....	3	.....	4	.....	se.	0	0	mod.	nne.	fine.
S. S. Australia, Sydney, N. S. W*	29.68	753.9	75	23.9	90	ne.	.....	.....	1	.....	1	.....	n.	0	0	.....	.....	clear.
S. S City of Sydney, S. 34° 00′, E. 158° 38′†	29.25	742.9	69	20.6	75	se.	.....	.....	4	.....	5?	.....	se.	0	0	mod.	e.	cloudy.?
H. M. S. Gannet, S. 2° 12′, W. 79° 51′	29.84	757.9	75	23.9	93	nw.	.....	.....	2	.....	6	ne.	.....	.....	.....	.....	.....	d. clouds.
S. George Stetson, S. 55° —′, W. 75° —′ *†	29.30	744.2	47	8.3	77	wsw.	.....	.....	6	.....	4	.....	sw.	0	0	.....	wsw.	clear.
Bk. Warden Law, S. 39° 52′, W. 90° 43′ *	30.38	771.6	.....	.....	.....	wsw.	.....	.....	3	.....	4	.....	ssw.	0	0	long	ssw.	fair.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 6° 10′ E. 39° 11′	29.82	757.4	83	28.3	.....	s.	.....	.....	1	.....	6	nne.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Eclipse, N. 28° 59′ E. 50° 48′	29.96	761.0	62	16.7	.....	wnw.	.....	.....	1	.....	3	nnw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Euryalus, N. 17° 20′, E. 92° 10′	29.92	760.0	78	25.6	84	nnw.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	.....	blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.87	758.7	83	28.3	.....	s.	.....	.....	2	.....	4	calm	.....	.....	.....	1	sse.	d. clouds.
H. M. S. Woodlark, Chakbar Bay, Arabia	30.00	762.0	72.5	22.5	85	calm	.....	.....	0	.....	7	wsw.	.....	.....	.....	.....	.....	misty.
S. S. Galatia, N. 6° 56′, E. 78° 22′†	29.83	757.7	80	26.7	91	ne.	.....	.....	5	.....	0	.....	.....	0	0	r'gh	ne.	clear.
S. Sacramento. S. 44° 54′, E. 69° 15′ *†	30.25	768.3	52	11.1	93	nne.	.....	.....	5	.....	10	.....	sw.	0	0	mod.	sw.	overcast.

International Chart I. February 23, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B.Hazen Chief Signal Officer.
Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 24, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ALGERIAN.																			
Nemours	.....	.....	30.57	776.4	63.7	17.6	78	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.61	777.5	62.2	16.8	57	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Thève.
La Calle	.....	.....	30.46	773.7	59.0	15.0	78	nw.	.....	.....	5	.....	5	.....	.....	0.055	1.4	cloudy	Fonfrède.
Tunis	.....	.....	30.41	772.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.58	776.6	63.3	17.4	84	wsw.	.....	.....	3	.....	0	.....	.....	0	0	clear	Pérès.
Tebessa	.....	.....	30.50	774.7	52.9	11.6	64	nw.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Dognon.
Geriville	.....	.....	.....	.....	60.4	15.8	20	nne.	.....	.....	2	.....	0	.....	.....	0	0	clear	Forfert.
Laghouat	.....	.....	30.50	774.7	57.2	14.0	41	sw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.51	774.9	72.3	22.4	23	n.	.....	.....	4	.....	3	.....	.....	0	0	pretty fair	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.98	761.5	30.07	763.8	59.0	15.0	75	s.	10	4.5	.....	.....	3	.....	.....	0	0	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.84	758.0	30.41	772.5	43.9	6.6	71	e.	.....	.....	4	.....	10	.....	.....	0.157	4.0	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	29.60	751.7	30.40	772.2	35.6	2.0	75	nw.	8.7	3.9	.....	.....	6	.....	.....	0.047	1.2	.....	Dr. Wierzbiski.
Eperies	29.39	746.6	30.31	769.9	37.0	2.8	66	nw.	.....	.....	2	.....	9 ks	.....	se.	0.138	3.5	.....	Julius Mikolik.
Gratz	29.13	739.9	30.42	772.7	44.6	7.0	54	nw.	.....	.....	3	.....	9	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.65	727.8	30.15	765.8	33.8	1.0	87	nnw.	.....	.....	3	.....	10	.....	.....	0.047	1.2	snowing	Prof. A. Gottschling.
Kremsmunster, Obs'y	29.20	741.7	30.63	777.9	34.0	1.1	94	w.	.....	.....	2	.....	10	.....	.....	0.323	8.2	snowing	The Staff.
Lemberg	29.23	742.4	30.27	768.8	34.3	1.3	72	ne.	.....	.....	3	.....	8	.....	.....	0	0	.....	Dr. T. Stanecki.
Neu Schmecks	26.80	680.6	30.36	771.1	28.0	— 2.2	70	calm	.....	.....	0	.....	8	.....	.....	1.063	27.0	.....	Dr. V. von Szontagh.
Pola	30.29	769.2	30.40	772.2	50.4	10.2	60	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	I. R.Hydrographic Office.
Szathmar	29.71	754.5	30.17	766.3	41.0	5.0	60	n.	.....	.....	3	.....	2	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.99	761.7	30.28	769.1	42.4	5.8	50	n.	.....	.....	5	.....	6	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.32	770.1	30.42	772.6	51.3	10.7	60	sw.	.....	.....	1	.....	1	.....	.....	0	0	.....	Royal Academy.
Vienna	29.74	755.3	30.48	774.3	41.5	5.3	74	nw.	.....	.....	4	.....	10	.....	.....	0.350	8.9	raining	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	30.16	766.1	30.25	768.3	53.4	11.9	60	wsw.	21	9.4	.....	.....	6	.....	.....	0.010	0.3	d. clouds	W. Boswell
Armagh, Observatory	.....	.....	.....	.....	49.0	9.4	80	sw.	16	7.2	.....	.....	10	.....	.....	.....	.....	overcast	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.58	776.7	48.9	9.4	81	w.	27	12.1	.....	.....	1	.....	.....	.....	.....	blue sky	John Hartnup.
Bolton, Sharples	30.01	762.2	30.50	776.2	45.9	7.7	89	wsw.	18	8.0	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth.
Bradford, Yorkshire	30.13	765.3	30.52	775.2	46.1	7.8	89	w.	.....	.....	3	.....	10	.....	.....	0	0	overcast	McLandsborough&Preston
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	80.0	26.7	76	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	gloomy	Corpl.J.Surgenor, A.H.C
Cardington	30.53	775.4	30.65	778.5	55.2	12.9	67	w.	.....	.....	1.0	.....	5	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E.	30.55	776.0	30.69	779.5	46.3	7.9	83	w.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	30.53	775.4	30.77	781.5	47.4	8.6	85	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	The Staff.
Fort Napier, Natal	27.56	700.0	29.80	756.9	70.4	21.3	63	se.	.....	.....	1	.....	9	.....	.....	.....	.....	overcast	Corpl. F. Milner, A. H. C.
Freetown	29.62	752.3	29.85	758.2	84.0	28.9	87	w.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	30.57	776.5	30.61	777.5	48	8.9	93	sw.	.....	.....	4	.....	9	.....	.....	0.01	0.3	drizzling	Wm. Ryan.
Gibraltar, Mediterraneam	30.46	773.7	30.52	775.2	68.2	20.1	95	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	gloomy	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	30.18	766.6	30.39	771.9	49.1	9.5	81	w.	.....	.....	10	.....	9	.....	.....	.....	.....	squally	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.49	774.4	30.67	779.0	43.8	6.6	92	wsw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	30.46	773.7	30.77	781.5	49.0	9.4	77	w.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.64	778.2	30.68	779.3	45.4	7.4	89	wsw.	12	5.4	.....	.....	10	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	30.34	770.6	30.60	777.2	54.6	12.6	68	sw.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	30.66	763.5	30.14	765.5	54.0	12.2	90	ne.	.....	.....	2	.....	6	.....	.....	1.10	27.9	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.14	765.5	30.19	766.8	75.5	24.2	68	se.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	30.07	763.8	30.66	777.2	55.2	12.9	70	wsw.	.....	.....	5	.....	6	.....	.....	.....	.....	d clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	30.43	772.9	30.66	778.7	49.5	9.7	81	wsw.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Plymouth	30.68	779.3	30.76	781.3	44.6	7.0	94	w.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	30.04	763.0	30.14	765.5	45	7.2	76	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.86	758.4	29.89	759.2	34.0	1.1	85	n.	.....	.....	1	.....	10	.....	.....	.....	.....	snowing	W. H. Lyne.
Sheffield	30.29	769.4	30.58	776.7	50.4	10.2	85	w.	.....	.....	3	.....	3	.....	.....	0	0	d. clouds	W. F. Cooper.
Siloth Rectory	30.51	774.9	30.54	775.7	40.0	7.8	92	wsw.	.....	.....	5	.....	10	.....	.....	0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.58	776.7	44.0	6.7	98	w.	21	9.4	.....	.....	10	.....	.....	.....	.....	drizzling	Rev. S. J. Perry.
Stratfield Turgiss	30.48	774.2	30.71	780.0	48.3	9.1	89	w.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	Rev.C.H.Griffiths, F.M.S.
Truro, Royal Institution	30.71	780.0	30.74	780.8	50	10.0	86	w.	.....	.....	2	.....	10	.....	.....	.....	.....	gloomy	W. Newcombe.
Valencia, Observatory	30.66	778.7	30.68	779.3	50.9	10.5	94	ssw.	15	6.7	.....	.....	10	.....	.....	blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.78	756.4	30.17	766.3	54.5	12.5	41	nnw.	18.6	8.3	.....	0	4 n	.....	nnw.	0	0	fair	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B	.....	.....	.....	.....	6	—14.4	.....	calm	0	0	.....	0	0	.....	.....	0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.54	775.7	30.59	777.0	8	—13.3	76	n.	8	3.6	.....	0	8 s	.....	nw.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.05	778.5	30.72	780.3	0	—17.8	87	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Cornwall	30.48	774.2	30.71	780.0	—20.2	—20.0	100	w.	.....	.....	1	0	0	.....	.....	0	0	blue sky	Jas. Smith, M. A.
Dalhousie	30.66	778.7	30.72	780.3	0.5	—17.5	.....	w.	.....	.....	1	0	0	.....	.....	0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.73	780.5	30.75	781.0	— 2	—18.9	87	s.	3	1.3	.....	0	2 s	.....	calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.26	741.7	30.14	765.5	— 5	—20.0	62	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton	30.68	779.3	30.75	781.0	13.5	—10.3	91	e.	9	4.0	.....	3 cs	0	.....	.....	0	0	blue sky	Prof. Harrison, L. L. D.
Granton	29.23	742.4	30.43	772.9	— 4.7	—20.4	93	calm	0	0	.....	.....	fg.	.....	.....	0.400	10.2	foggy	Jas. Grant.
Halifax, N. S*	30.50	774.7	30.04	778.2	5	—15.0	96	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. Allison.
Hamilton	30.01	762.2	30.43	772.9	16.2	— 8.8	94	n.	.....	.....	1	3 c	0	ne.	.....	0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	30.26	768.6	30.05	778.5	7	—13.9	86	ne.	3	1.3	.....	8 c	0	n.	.....	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	30.51	774.9	30.75	781.0	— 5	—20.6	91	s.	.....	.....	.....	.....	10 n	.....	.....	0	0	cloudy	C. H. McLeod, C. E.
Ottawa	28.42	721.9	30.72	780.3	—10.1	—23.4	90	ne.	.....	.....	1	0	0	.....	.....	0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.71	754.6	30.49	774.4	4	—15.6	79	e.	20	8.9	.....	2 cs	0	e.	.....	0	0	fair	Rev. R. Mosley.
Peterboro	29.74	755.4	30.61	777.5	—10.3	—23.5	100	calm	.....	.....	0	0	0	.....	.....	0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.67	753.6	30.44	773.2	11	—11.7	100	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. Morgan.
Port Stanley, Ontario	29.68	753.9	30.39	771.9	14	—10.0	83	e.	10	4.5	.....	5 cs	0	w.	.....	0	0	fair	M. Payne.
Quebec, Quebec*	30.40	772.1	30.77	781.5	— 6	—21.1	62	w.	.....	.....	1	0	hz	.....	.....	0	0	clear	Capt. Ashe, R. N
Rockliffe, Ontario*	30.03	762.7	30.59	777.0	—27	—32.8	96	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.62	752.3	30.41	772.4	12	—11.1	87	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	
St. Andrews, N. B	30.67	779.0	30.73	780.5	4	—15.6	100	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	
St. John, N. B	30.56	776.2	30.75	781.0	4	—15.6	100	n.	4	1.8	.....	0	0	.....	.....	0	0	blue sky	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.04	763.0	6.8	—14.0	.....	nw.	.....	.....	7	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	29.04	737.6	30.44	773.2	11.4	—11.4	90	se.	10	4.5	.....	2 cs	0	.....	.....	0	0	blue sky	C. J. Macgregor, M. A.
Sydney, C. B*	30.40	772.1	30.47	773.9	4	—15.6	76	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	30.07	763.8	30.49	774.4	20	— 6.7	76	e.	18	8.0	.....	2 cs	0	e.	.....	0	0	clear	Magnetic Observatory.
Windsor	30.52	775.2	30.62	777.7	9.5	—12.5	68	w.	10	4.5	.....	0	0	.....	.....	0	0	blue sky	Prof. W. H. Butler, M.A.
Woodstock	29.31	744.5	30.49	774.4	11.0	—11.7	84	ne.	12.5	5.0	.....	3 k	0	e.	.....	0	0	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.63	778.0	30.71	780.0	13	—10.6	66	n.	2	0.9	.....	2 k	0	.....	.....	0	0	fair	Lt. F. E. Wilmot, R.N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
CAPE COLONY.																			
Cape St. Francis Lt. House	29.07	738.4	29.10	739.1	69.5	20.8	88	w.	12.3	5.5	.....	0	8 ks	.....	.....	0	0	dull	John Duthie.
Springbok Fontein	27.84	707.1	.....	.....	82	27.8	63	e.	.....	.....	.....	...	.....	...	...	.....	.....	.....	J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	24.84	630.8	.....	.....	11.1	—11.6	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	clear.	
Tchang-kia-tchouang	30.52	775.3	30.63	778.1	31.1	— 0.5	100	ne.	.....	.....	1	.....	3	.....	.....	0	0	clear	R. P. Desurmont, S.J.
Zi-Ka-Wei, near Shanghai	30.40	772.2	30.43	772.9	38.7	3.7	87	n.	8.5	3.8	.....	0	9 k	.....	.....	0.079	2.0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.13	765.2	30.17	766.4	41.5	5.3	86	w.	20	9	.....	.....	10	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	30.25	768.3	30.27	768.8	40.5	4.7	96	w.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	30.01	762 3	30.06	763.4	— 2.6	—19.2	100	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	30.00	762.1	30.02	762.6	— 0.6	—18.1	.....	calm	.....	.....	0	.....	7	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.97	761 3	30.02	762.5	— 8.5	—22.5	.....	e.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.26	743.2	29.30	744.3	28.8	— 1.8	90	w.	.....	.....	8	.....	8	.....	.....	.....	.....	snowing	A. O. Thorlacius.
Thorshavn	29.76	755.8	29.79	756.7	37.0	2.8	80	w.	36	16	.....	.....	8	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	30.06	763.6	30.15	765.9	42.3	5.7	96	wsw.	.....	.....	6	.....	5	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	29.84	758.0	29.89	759.2	— 7.6	—22.0	.....	sw.	.....	.....	6	.....	2	.....	.....	.....	.....	snowing	
FRENCH.																			
Agen, Normal School	30.07	763.7	30.74	780 8	52.2	11.2	85	calm	.....	.....	0	.....	fg	.....	.....	0	0	foggy	M. Labroue, Director.
Alençon, Normal School	30.22	767.5	30.77	781.5	43.2	6.2	79	n.	.....	.....	2	c	.....	s.	s.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	30.43	772.9	30.69	779.5	47.5	8.6	89	w.	.....	.....	1	.....	1 cs	.....	.....	0	0	clear	M. Giraud, Director.
Avignon, Normal School	30.37	771.5	30.45	773.5	55.0	12.8	46	nnw.	.....	.....	6	.....	0	.....	.....	0	0	clear	M. Saillard, Director.
Bar-sur-Seine	30.17	766.2	30.74	780.9	46.8	8.2	64	nne.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Frère Eugène Marié
Beauvais, Normal School	30.50	774.6	30.78	781.7	43.3	6.3	77	nw.	.....	.....	1	.....	8	.....	nw.	0	0	very cloudy	M. Gobin, Director.
Besançon, Normal School	29.74	755.3	30.74	780.8	52.5	11.4	80	n.	.....	.....	1	.....	1	.....	s.	0	0	clear	M. Rayet, Director.
Bordeaux, Observatory	30.41	772.3	30.68	779 2	52.3	11.3	61	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Malet, Director.
Bourges, Normal School	29.98?	761.6?	30.55?	776.0?	50.9	10.5	97	e.	.....	.....	1	0	0	.....	.....	0	0	.....	M. de Kermarec, Dir.
Brest, Naval Observatory	30.54	775.8	30.78	781.9	55.4	13.0	81	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Berson, Director.
Caen, Normal School	30.71	780.1	30.79	782.1	42.6	5.9	100	e.	.....	.....	1	.....	0	.....	.....	0	0	cloudy	M. Jadot, Director.
Châlons-sur-Marne, N.Sch'l	30.40	772.2	30.73	780.6	44.8	7.1	85	calm	.....	.....	0	.....	5	.....	.....	0	0	covered	M. Grimard, Director.
Charleville, Normal School	30.18	766.5	30.70	779.7	40.6	4.8	71	w.	.....	.....	1	.....	10	.....	.....	0	0	light haze	M. Alluard, Director.
Clermont-Ferrand Obs'ty	29.34	745.2	30.75	781.0	47.1	8.4	72	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. de Villemontée, Dir.
Cluny, Normal School	29.85	758.1	30.73	780.6	48.2	9	53	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Dr. Coulet, Director.
Commercy, Normal School	29.81	757.1	30.71	780.0	43.7	6.5	70	w.	.....	.....	1	.....	10 n	w.	w.	0	0	covered	M. Jeangirard, Director.
Gap, Normal School	27.89	708.5	30.49	774.4	48.2	9	48	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Kint, Director.
Gréasque, du Rhone	29.26	743.1	30.39	771.8	61.3	16.3	33	n.	.....	.....	1	.....	5	.....	sw.	0	0	.....	M. Abbard, Director.
Grenoble, Normal School	29.85	758.1	30.65	778.4	50.7	10.4	68	wsw.	.....	.....	1	.....	8	.....	.....	0	0	.....	M. Delorme, Dir.
Guéret	29.10	739.0	30.73	780.5	50.0	10	74	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Ollitrault, Director.
Lamballe, Normal School	30.57	776.5	30.85	783.6	48.9	9.4	81	n.	.....	.....	1	.....	1	.....	n.	0	0	clear	M. Chauvin, Director.
Lescar, Normal School	30.02	762.5	30.59	777.0	59.0	15.0	58	n.	.....	.....	1	0	0	.....	.....	0	0	clear	Lt. T. Carré, Director.
Lorient, Naval Observatory	30.69	779.5	30.79	782.1	54.0	12.2	59	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. André, Director.
Lyon, St. Genis-Laval	29.59	751.6	30.69	779.5	49.1	9.5	51	nnw.	.....	.....	2	0	0	.....	.....	0	0	clear	M. Pihoën, Director.
Mans, Normal School	30.48	774.1	30.80	782 3	45.5	7.5	88	n.	.....	.....	3	.....	0	.....	.....	0	0	.....	M. Stephan, Director.
Marseille, Observatory	30.09	764.3	30.36	771.2	64.6	18.1	56	nnw.	.....	.....	1.2	.....	7	.....	nnw.	0	0	.....	M. Carré for Dr. Fines.
Montlouis	25.31	642.9	30.15	765.9	51.8	11.0	7	ne.	5.6	2.5	.....	.....	0	.....	.....	0	0	slightly cl'dy	M. Galzin, Director.
Montpellier, Normal School	30.32	770.2	30.46	773.6	66.4	19.1	32	nnw.	.....	.....	6	.....	2	nne.	.....	0	0	.....	M. Hasse, Director.
Nancy, Normal School	29.87	758.7	30.69	779.6	43.5	6.4	77	wsw.	.....	.....	1	.....	km	.....	.....	0	0	hazy	M. Larocque, Director.
Nantes, Observatory	30.64	778 3	30.80	782.4	52.9	11.6	69	e.	.....	.....	0.1	.....	0	.....	.....	0	0	.....	Dr. Fines, Director.
Perpignan, Observatory	30.41	772.4	30.52	775.2	71.1	21.7	7	nw.	22.4	10.0	.....	.....	4	n.	.....	0	0	clear	M. Vaussenat, Director.
Pic-du-Midi, Summit	21.68	550.8	.....	.....	38.3	3.5	.....	ene.	.....	.....	1	.....	1	.....	ene.	0	0	clear	
Privas, Normal School	29.47	748.5	30.56	776.1	54.5	12.5	41	n.	.....	.....	1	.....	5	n.	n.	0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.67	652.1	.....	.....	39.2	4.0	33	ene.	.....	.....	3	.....	0	.....	.....	0.004	0.1	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.69	779.5	30.72	780.3	57.2	14.0	84	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.47	774.0	30.69	779.6	53.2	11.8	65	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Brotier, Director.
Rodez, Normal School	28 35	720.1	30.55	776.0	51.3	10.7	35	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.76	781.3	30.81	782.5	42.4	5.8	88	nw.	.....	.....	2	.....	10	nw.	.....	0	0	covered	M. Mouillot.
Saint Lô	.....	.....	.....	.....	41.0	5	97	nw.	.....	.....	1	.....	2	.....	w.	0	0	slightly cl'dy	M. Delaplanche, Dir.
Saint Maur, Observatory	30.60	777.2	30.76	781 4	39.9	4.4	94	s.	.....	.....	1	.....	0	.....	.....	0	0	cloudy	M. Renou, Director.
Toulouse, Observatory	29.95	760.8	30.69	779.5	46.9	8.3	95	ene.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	M. Baillaud, Director.
Tours	30.57	776.4	30.74	780.9	50.4	10.2	72	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. de Tastes.
Versailles, Observatory	30.25	768.4	30.74	780.9	40.6	4.8	87	nw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.53	775.4	30.68	779.2	49.5	9.7	84	w.	4.0	1.8	.....	.....	10 k	.....	n.	0	0	.....	M. Cartier, Director.
GERMAN.																			
Ansbach	29.13	739.9	30.65	778.6	40.3	4.6	70	nw.	.....	.....	4	.....	4	nw.	.....	0	0	.....	Prof. Jnedt.
Bamberg	29.72	754.8	30.58	776.6	41.9	5.5	77	nw.	.....	.....	3	.....	7	wnw.	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	30.28	769.1	30.43	773.0	40.3	4.6	90	nw.	.....	.....	3	.....	10	.....	.....	0	0	.....	Meteorological Institute.
Breslau	29.91	759.6	30.45	773.3	39.9	4.4	76	nw.	.....	.....	2	.....	10	.....	.....	0.043	1.1	sprinkling	Royal University [illegible]
Carlsruhe	30.24	768.0	30.72	780.3	46.8	8.2	66	sw.	.....	.....	5	.....	0	.....	.....	0	0	.....	Albert Senz.
Cassel	29.78	756.4	30.49	774.5	48.0	8 9	51	w.	.....	.....	3	.....	0	.....	.....	0.020	0.5	.....	Dr. H. Möhl.
Frankfort-on-the-Main	30.24	768 1	30.63	777.9	45.9	7.7	67	wsw.	.....	.....	2	.....	2	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	29.16	740.7	30.65	778.6	45.0	7.2	75	sw.	.....	.....	3	.....	0	.....	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	30.34	770.6	30.43	772.9	42.3	5.7	85	w.	.....	.....	5	.....	10	.....	.....	.....	.....	rain & fog	E. Preller.
Kiel	30.35	770.8	30.36	771.2	42.1	5.6	91	w.	.....	.....	6	.....	10	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	30.08	763 9	30.51	775.0	43.2	6.2	72	wsw.	.....	.....	4	.....	9	wsw.	.....	0.004	0.1	.....	H. Leppig, Asst.
Magdeburg	30.28	769.0	30.48	774.1	41.9	5.5	80	w.	.....	.....	2	.....	10	w.	.....	0	0	hazy	Dr. Assmann.
Memel	30.12	765.0	30.17	766.2	33.6	0.9	90	sw.	.....	.....	4	5 ck	0	.....	.....	.....	.....	snow squalls	Issermann.
Munich	28.75	730.2	30.65	778.5	39.0	3.9	73	nw.	.....	.....	1	.....	10	w.	.....	0	0	.....	Central Station.
Neufahrwasser	30.28	769.0	30.29	769.4	40.6	4.8	65	w.	.....	.....	1	.....	10	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	30.08	763.9	30.61	777.5	46.9	8.3	60	w.	.....	.....	3	.....	0	.....	.....	0	0	.....	Dicknether.
Stuttgart	29.64	752 8	30.57	776.4	46.4	8.0	79	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	30.35	770.8	30.37	771.4	36.9	2.7	93	w.	.....	.....	5	.....	10 s	.....	.....	0	0	.....	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.47	748.6	29.87	758.8	44.6	7.0	.....	n.	.....	.....	6.0	.....	9	.....	.....	0.209	5.3	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.96	761 0	30.01	762.3	77.2	25.1	42	nnw.	12.0	5.4	.....	.....	9	w.	.....	0	0	gloomy	
Deesa	29.46	748.2	29.93	760.1	84.7	29 3	15	wnw.	14.0	6.3	.....	.....	6	w.	.....	0	0	d. clouds	
Bombay	29.83	757.6	29.87	758.6	83.1	28.4	69	nw.	12.0	5.4	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.99	711.0	29.80	756.8	94.5	34.7	16	w.	10.0	4.5	.....	.....	1	wnw.	.....	0	0	d. clouds	
Belgaum	27.33	694.2	29.81	757.1	89.2	31.8	15	se.	3.0	1.3	.....	.....	6	sw.	.....	0	0	d. clouds	
Lahore	29.20	741.6	29.96	760.9	71.2	21.8	24	w.	4.0	1.8	.....	.....	2	.....	.....	0	0	blue sky	
Roorkee	28.99	736 4	29.91	759.8	69.8	21.0	28	w.	1.0	0.4	.....	.....	10	w.	.....	0	0	.....	
Agra	29.26	743.1	29.83	757.6	75.7	24.3	26	w.	2.0	0.9	.....	.....	10	.....	w.	0	0	d. clouds	
Nagpur	28.81	731.9	29.84	758.0	88.7	31.5	23	calm	0	0	.....	.....	2	w.	.....	0	0	d. clouds	
Jubbulpore	28.55	725.1	29.91	759.0	80.5	26.9	19	calm	0	0	.....	.....	6	.....	ne.	0	0	gloomy	
Lucknow	29.58	751.2	29.97	761.1	68.8	20.4	43	wsw.	9.0	4.0	.....	.....	8	e.	.....	0	0	d. clouds	
Allahabad	29.58	751.4	29.96	759.5	72.7	22.6	46	calm	0	0	.....	.....	8	.....	.....	0	0	d. clouds	
Patna	29.68	753.9	29.87	758.7	72.5	22.5	40	w.	3.9	1.7	.....	.....	4	w.	w.	0	0	d. clouds	
Hazaribagh	27.87	707.8	29.92	759.9	69.1	20.6	32	calm	9.0	4.0	.....	.....	5	.....	w.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.78	756.4	29.86	758.4	86.1	30.1	50	ese.	4.0	1.8	.....	.....	5	.....	.....	0	0	d. clouds	
Calcutta, Alipore	29.86	758.6	29.89	759.1	77.9	25.5	36	w.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky.....	
Dhubri	29.73	755.2	29.86	758.3	70.4	21.3	48	calm	0.2	0.1	.....	.....	0	.....	.....	0	0	blue sky.....	
Chittagong	29.83	757.7	29.92	760.0	74.0	23.3	42	w.	2.8	1.2	.....	.....	0	.....	.....	0	0	blue sky.....	
Sibsagar	29.52	749.8	29.87	758.6	66.3	19.1	66	sw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky.....	
Jeypore	28.48	723.5	29.94	760.4	76.7	24.8	21	nnw.	5.0	2.2	.....	.....	7	.....	nnw.	0	0	d. clouds	
Bellary	28.38	720.8	.....	.....	91.8	33.1	19	se.	6	2.7	.....	.....	0	.....	.....	0	0	blue sky.....	
Trichinopoly	29.62	752.3	.....	.....	90.8	32.7	31	e.	1	0.4	.....	.....	0	.....	.....	0	0	blue sky.....	
ITALIAN.																			
Udine	29.99	761.7	30.41	772.4	51.3	10.7	62	s.	1.8	0.8	.....	.....	9	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.84	758.0	30.37	771.4	56.3	13.5	37	w.	4.3	1.9	.....	.....	0	.....	.....	0	0	.....	Prof. Schiapparelli.
Padua	30.26	768.7	30.38	771.6	52.5	11.4	66	se.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.47	748.4	30.39	772.0	55.9	13.3	49	n.	1.3	0.6	.....	.....	0	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	30.19	766.8	30.39	771.8	59.0	15.0	58	se.	8.1	3.6	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.46	722.8	30.43	772.8	53.2	11.8	41	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.34	770.6	30.39	771.9	54.7	12.6	44	sse.	1.3	0.6	.....	.....	1	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	30.12	765.0	30.38	771.6	55.0	12.8	46	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	30.24	768.0	30.32	770.2	57.6	14.2	55	s.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	30.18	766.6	30.36	771.2	58.3	14.6	27	n.	6.3	2.8	.....	.....	0	.....	.....	0	0	.....	Prof. P. Tachini.
Lecce	29.84	757.9	30.10	764.5	49.8	9.9	42	nnw.	27.3	12.2	.....	.....	4	n.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.26	743.1	30.17	766.4	49.3	9.6	74	nnw.	8.1	3.6	.....	.....	6	nw.	.....	0.012	0.3	.....	Prof. D. Conti.
Cagliari	30.15	765.7	30.34	770.7	58.1	14.5	77	se.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	30.10	764.4	30.35	770.9	54.5	12.5	37	ne.	13.6	6.1	.....	.....	3	ne.	.....	0.083	2.1	.....	Prof. G. Cacciatore.
Syracuse	30.09	764.3	30.14	765.5	53.8	12.1	63	nne.	31.8	14.2	.....	.....	7	nne.	.....	0.122	3.1	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.82	757.5	30.36	771.2	52.5	11.4	42	ne.	19.2	8.6	.....	.....	5	ne.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.45	570.1	.....	.....	23.2	— 4.9	45	ne.	.....	.....	2	.....	1	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.48	571.0	.....	.....	30.7	2.6	30	ne.	.....	.....	2	.....	3	.....	.....	0	0	clear.....	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.16	766.0	30.19	766.8	29.3	— 1.5	85	calm	.....	.....	0	10 ck;cs	0	w.	.....	0	0	cloudy	H. Hattori.
Awomori	30.18	766.6	30.22	767.6	27.1	— 2.7	70	se.	4.9	2.2	.....	5 cs	5 s	.....	.....	0	0	cloudy	K. Ogawa.
Hakodate	30.22	767.5	30.23	767.8	25.2	— 3.8	94	n.	3.0	1.3	.....	0	8	.....	.....	0	0	cloudy	
Hamamatsu	30.06	763.5	30.09	764.2	46.9	8.3	78	calm	.....	.....	0	.....	10 s	.....	.....	0.079	2.0	overcast.....	
Kagoshima	30.14	765.6	30.15	765.9	46.5	8.1	81	n	.....	.....	2	1cs;ck	0	w.	.....	0	0	clear.....	G. Miyanohaza.
Kioto	30.00	761.9	30.18	766.5	39.8	4.3	87	nw.	1.6	0.7	.....	1 ck	5 s	n.	n.	Inap.	Inap.	cloudy.....	M. Tojima.
Kochi	30.10	764.5	30.12	765.0	47.3	8.5	63	ne.	7.1	3.1	.....	8	0	w.	.....	0	0	cloudy.....	K. Kusunose.
Miasaka	30.11	764.8	30.14	765.5	50.3	10.2	86	calm	.....	.....	0	.....	10 ks	.....	w.	0	0	overcast	K. Masusaki.
Nagasaki, I. M. Obs'y	29.99	761.7	30.20	767.0	44.6	7.0	81	ne.	1.8	0.8	.....	0	0	.....	.....	0	0	clear.....	S. Takehayashi.
Niigata	30.16	766.0	30.20	767.1	38.8	3.8	75	ne.	3.7	1.6	.....	.....	10 ck;s	.....	n.	0.070	1.8	cloudy	M. Morita.
Nobiru	30.17	766.2	30.18	766.6	34.1	1.2	82	ene.	6.5	2.9	.....	.....	10 s	.....	.....	0.010	0.3	covered.....	H. Midzushima.
Numazu	30.08	764.0	30.11	764.8	44.5	6.9	72	ese.	.....	.....	2	5 c	5 ks;s	.....	.....	0	0	cloudy.....	R. Kaneda.
Osaka	30.17	766.3	30.18	766.7	38.5	3.6	88	nnw.	3.0	1.3	.....	0	0	.....	.....	0	0	clear.....	H. Omura.
Sakai	30.21	767.2	30.22	767.5	40.9	4.9	82	ne	.....	.....	2	3 cs	1 ks	nnw.	n.	0.339	8.6	fair.....	K. Yamawchi.
Sapporo	.....	.....	.....	.....	15.0	— 9.4	92	calm	0	0	.....	.....	2	.....	.....	0	0	clear.....	
Tokei Obs'y, Yeddo	30.06	763.4	30.13	765.4	38.2	3.4	85	nnw.	8.2	3.7	.....	.....	10 n	.....	.....	0.032	0.8	light rain....	The Staff.
Wakayama	30.11	764.9	30.17	766.3	42.6	5.9	74	ne.	6.9	3.1	.....	1 ck	0	.....	.....	0	0	clear.....	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.78	756.4	29.97	761.2	81.0	27.2	66	e.	17.0	7.6	.....	2 cs	4 k;ks	.....	sse.	0	0	fair.....	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	46.5	8.1	92	e.	9.8	4.4	.....	.....	.....	.....	.....	.....	.....	clear.....	H. Diaz Pena.
Guanajuato	23.68	601.5	29.90	759.5	49.1	9.5	94	nnw.	Inap.	Inap.	.....	2 c	8 pc	sw.	sw.	Inap.	Inap.	very cloudy	Prof. Vicente Fernandez.
Leon	24.30	617.2	30.06	763.5	47.3	8.5	91	wsw.	.....	.....	1	9 c	0	.....	.....	Inap.	Inap.	very cloudy	Prof. M. Leal.
Mazatlan	29.73	755.2	30.00	761.9	56.0	13 3	75	nw.	15.5	6.9	.....	0	0	.....	.....	0	0	clear.....	F. Quijano, U. E.
Mexico, Central Obs'y	23.11	586.9	30.25	768.4	48.7	9.3	70	calm	0	0	.....	10 c	0	.....	.....	0	0	covered	The Staff.
Morelia	24.24	615.7	30.11	764.7	52.3	11.3	70	se.	.....	.....	1	3 c	1 k	s.	s.	0	0	clear.....	M. Tena, M. D.
Pabellon	23.91	607.2	29.99	761.8	44.8	7.1	52	calm	0	0	.....	0	1 s	.....	sw.	0	0	½ cloudy	
Puebla, Catholic Institute	23.36	593.3	30.16	766.1	49.8	9.8	76	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	Prof. P. Spina.
Zacatecas	22.45	570.2	30.22	767.7	42.4	5.8	52	wsw.	3.6	1.6	.....	10 c	0	sse.	.....	0	0	covered.....	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.66	778.7	30.66	778.7	45.7	7.6	.....	wsw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	30.44	773.1	30.49	774.5	45.7	7.6	.....	nw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.62	777.8	30.62	777.8	45.7	7.6	86	wsw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Utrecht	30.54	775.8	30.59	777.0	47.1	8.4	82	w.	.....	.....	2	.....	8	.....	.....	0	0	very cloudy..	H. van der Brink
Sub-series.																			
Batavia, Java	29.84	758.0	.....	.....	79.2	26.2	82	n.	0	0	.....	.....	1	.....	.....	0	0	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.85	758.2	29.91	759.8	45.3	7.4	83	wsw.	20	9	.....	.....	10	.....	.....	0.472	12.0	raining.....	
Brono	29.11	739.3	29.15	740.3	38.8	3.8	87	sw.	.....	.....	7	.....	9	.....	.....	0.307	7.8	snowing.....	
Christiania	29.56	750.8	29.71	754.6	41.9	5.5	70	w.	4	2	.....	.....	1	.....	.....	0	0	.....	
Gjesvier	29.15	740.5	29.18	741.1	27.7	— 2.4	.....	ssw.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	
Lodingen	28 98	736.2	29.03	737.4	27.5	— 2.5	75	se.	.....	.....	4	.....	10	.....	.....	0.287	7.3	snowing.....	
PORTUGUESE.																			
Angra, Azores	30.08	764.0	30.24	768.0	59.4	15.2	85	se.	15.0	6.7	.....	.....	8	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.45	748.1	30.46	773.6	64.8	18.2	41	ese.	6.3	2.8	.....	.....	0	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.34	770.5	30.42	772.7	65.5	18.6	63	e.	6.3	2.8	.....	.....	10	.....	.....	0.098	2.5	hazy	Capt. D. A. de Cunha.
Lisbon, Observatory	30.20	767.0	30.56	776.3	56.7	13.7	50	ne.	9.8	4.4	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.16	766.1	30.23	767.9	63.7	17.6	78	ese.	13.6	6.1	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	29.56	751.3	29.78	756.3	84.4	29.1	91	w.	0.7	0.3	.....	.....	8	.....	.....	0	0	.....	
Serra da Estrella	25.77	654.5	30.56	776.3	50.9	10.5	32	ese.	30.4	13.6	.....	.....	0	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.36	745.7	30.58	776.8	— 0.9	—18.3	77	calm	0	0	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.57	751.1	29.59	751.6	22.6	— 5.2	76	sw.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Sselliwerstow.
Ashuruda	30.12	765.0	30.02	762.6	49.3	9.6	76	n.	9	4	.....	0	0	.....	.....	0	0	.....	
Astrakhan	30.21	767.2	30.12	765.1	31.0	— 0.2	40	se.	7	3	.....	.....	9 ks	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.08	763.9	30.03	762.7	44.6	7.0	74	s.	18	8	.....	4 ck	0	.....	.....	0	0	.....	
Barnaul	30.17	766.2	30.73	780.6	4.3	—15.4	81	calm	0	0	.....	.....	1	.....	.....	0	0	light clouds	Meteorological Obs'y.
Bielosersk	29.40	746.7	29.88	759.0	30.6	— 0.8	64	wsw.	7	3	.....	0	2 k	.....	.....	0	0	.....	
Dorpat	29.80	757.0	30.06	763.6	24.8	— 4.0	100	w.	7	3	.....	0	0	.....	.....	0.063	1.6	.....	Observatory.
Ekaterinburg	29.25	742.9	30.27	768.9	25.7	— 3.5	35	wsw.	13	6	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y.
Elissawetgrad	29.61	752.0	30.08	763.9	33.8	1.0	80	ne.	13	6	.....	6 ck	0	.....	.....	0.138	3.5	.....	
Irkutsk	28.85	732.7	30.66	778.8	9.9	—12.3	88	calm	.....	.....	0	.....	10	.....	.....	0.004	0.1	.....	
Kasalinsk	29.83	757.6	30.00	762.1	13.3	—10.4	72	e.	4	2	.....	0	0	.....	.....	.....	.....	.....	
Kasan	29.80	758.4	30.16	766.0	16.7	— 8.5	78	sse.	18	8	.....	.....	10	.....	.....	0.004	0.1	.....	Observatory.
Kem	29.50	749.4	29.56	750 7	23.0	— 5.0	66	w.	18	8	.....	0	0	.....	.....	0	0	.....	
Kertch	29.90	759.4	29.92	759.9	31.8	— 0.1	94	ne.	7	3	.....	.....	10 n	.....	.....	blank	blank	.....	Lagorio & Sastyres.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Kieff	29.44	747.8	30.11	764.7	35.4	1.9	75.	n.	7	3			9 ks			0	0		Observatory.
Koslov	29.52	749.9	30.09	764.2	24.6	— 4.1	94	sSW.	11	5			10 s			0.028	0.7	light snow	E. Quass.
Libau	30.13	765.4	30.16	766.0	34.7	1.5	82	sSW.	11	5			9			0	0		Meteorological Obs'y.
Lugan	29.79	756.7	29.98	761.6	29.5	— 1.4	78	ne.	9	4			10			0.008	0.2		Meteorological Obs'y
Moscow	29.50	749.3	30.00	762.0	32.0	0.0	79	wnw.	3.4	1.5			10 s			0	0		Capt. Kurdakow.
Nikolaiev	29.98	761.5	30.06	763.4	34.2	1.2	80	calm	0	0		0	7 n			0.039	1.0	light clouds	Iwanow.
Nikolaievsk-on-the-Amoor	29.98	761.4	30.07	763.6	5.7	—14.6	56	calm	0	0			8			0.016	0.4		Physical Observatory.
Pekin, China	30.50	774.6	30.65	778.4	26.2	— 3.2	27	calm	0	0		0	0			0	0		
Petro-Alexandrovsk	29.95	760.6	30.32	770.0	37.8	3.2	37	ne.	1.1	0.5		9 cs	0			0	0		Dr. Bergmann.
Petrozavodsk	29.57	751.0	29.78	756.3	27.7	— 2.4	61	wnw.	16	7		0	0			0	0		
Pinsk	29.72	754.9	30.24	768.0	37.0	2.8	60	nw.	9	4		0	1 ks			0	0		
Poti	29.76	756.0	29.78	756.5	46.4	8.0	83	s.	9	4			10 n			0.028	0.7		
St. Petersburg	29.94	760.4	29.95	760.8	16.3	— 8.7	82	nw.	2	1		0	0			0.016	0.4		Central Physical Obs'y.
Samarkand	27.75	704.8	30.32	770.1	36.7	2.6	53	calm	0	0			0						
Semipalatinsk	30.00	761.9	30.73	780.5	0.7	—17.4	73	e.	9	4			0			0	0		Major Lasarew.
Sevastopol	29.65	753 0	29.88	758.9	43.0	6.1	50	ne.	20	9			9 n			0.016	0.4		
Staroi Bykhov	29.71	754.7	30.19	766.8	34.2	1.2	49	nw.	11	5		0	2 k			0	0	light clouds	
Tashkend	28.63	727.2	30.42	772.6	28.6	— 1.9	52	calm	0	0		0	c			0	0		Terch, A. M.
Tiflis	28 56	725.4	30.01	762.2	42.4	5.8	58	se.	4	2			10			0	0		Physical Observatory.
Vernoe	27.68	703.0	30.39	772.0	16.0	— 8.9	79	calm	0	0		0	0						
Viatka	29.32	744.6	29.98	761.5	21.9	— 5.6		s.	9	4			10			0.008	0.2		
Vladivostock	30.19	766.7	30.25	768.4	15.1	— 9.4	38	ne.	4	2			10 k			0	0		
Warsaw	29.90	759.5	30.34	770.7	37.8	3.2	68.	wnw.	11	5		1 ck	0			0.024	0.6		Astronomical Obs'y.
Wilna	29.79	756.6	30.23	767.8	34.5	1.4	82	nw.	4	2			1			0	0		Berg, Assistant.
Yeniseisk	30.25	768.4	30.57	776.4	13.3	—10.4	83	w.	7	3			10			blank	blank		M. O. Marks.
Scottish.																			
Monach Lt			30.36	771.1	47	8.3	92	wnw.			6	10	5	nw.		0.2	5.	showery	J. Youngclauss.
North Unst			29.82	757.4				nw.			8		8						Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.38	771.6	30.49	774.4	64.4	18.0	65	sw.	1.6	0.7		0	0			0	0		Antonio Reve, Director.
Bilbao, Met. Obs'y	30.61	777.5	30.67	779.0	58.6	14.8	69	s.	1.3	0.6		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.57	700.2	30.55	775.9	61.2	16.2	31	ne.	3.4	1.5		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.34	719.8	30.59	776.9	62.6	17 0	42	e.	4.3	1.9		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.39	771.8	30.52	775.1	73.0	22.8	58	sw.	3.8	1.7		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.79	756.6	30.66	778.8	38.8	3.8	88	n.	2.5	1.1		0	0			0	0	clear	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.62	752.4	30.52	775.2	64.2	17.9	49	calm	0	0			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.95	760.7	30.01	762.2	78.0	25.6	66	e.	9.5	4.2			k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.41	772.5	30.51	775.0	63.9	17.7	46	e.	27.7	12.4		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.04	763.0	30.13	765.3	72.0	22.2	95	se.	3.1	1.4		2 s	4 kn	se.	se.	0.087	2.2	cloudy	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	29.42	747.2	29.46	748.2	15.1	— 9.4	94	sW.			2		10			0	0		
Umea	29.41	747.1	29.47	748.4	29.5	— 1.4	96	sW			7		10			0	0		
Hernosand	29.42	747.2	29.47	748.5	32.7	0.4	85	WsW.			6		4			0	0		
Stockholm	29.60	751.7	29.77	756.2	33.8	1.0	92	WsW.			2		10			0	0		
Wisby	29.91	759.7	29.97	761.2	36.3	2.4	85	WsW.			4		10			0	0	raining	
Sub-series.																			
Upsala	29.62	752.3	29.71	754.5	32.4	0.2	97	sSW.	16.1	7.2			10		w.	0	0		S. G. Fineman.
Swiss.																			
Geneva	29.18	741.2	30.63	777.9	48.0	8.9	56	nne.			3		0			0	0	clear	The Observatory.
Turkish.																			
Constantinople			29.94	760.4	34.5	1.4	88	n.	0	0			10		n.	0.165	4.2	snowing	The Observatory.
Valona			30.09	764.3	52.0	11.1		n.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.70	754.3	50.2	10.1	93	sW.			1		10 n		sW.	0.20	5.1		Prof. C. V. A. van Dyck.
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	30.70	779.8	30.79	782.1	11	—11.7	65	nW.	4	1.8		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.64	752.8	30.35	770.9	17	— 8.3	67	se.	12	5.4		2 cs	0	s.		0.02	0.5	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.04	636.0	30.14	765.5	34	1.1	75	e.	3	1.3			6 s			0.03	0.8	fair	W. C. Barnes.
Assinnaboine, Ft., Montana	27.34	694 4	30.38	771.6	15	— 9.4	67	sW.	20	8.9		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.03	737.3	30.25	768.3	45.0	7.2	100	e.	20	8.9			10 n			0.42	10.7	light rain	H. C. Smyth.
Atlantic City, New Jersey	30.66	778.7	30.67	779.0	31	— 0.6	78	e.	13	5.8		8 k	0	e.		0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.16	766.1	30.36	771.1	48	8.9	86	ne.	8	3.6			10 s		ne.	0.12	3.0	cloudy	John Healy.
Baltimore, Maryland	30.65	778.5	30.70	779.8	28	— 2.2	77	ne.	4	1.8		0	0			0	0	clear	Geo. W. Feiger.
Barnegat, New Jersey	30.69	779.5	30.71	780.0	29.0	— 1.7	77	e.	15	6.7		0	9 k		e.	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	30.67	779.0	30.69	779.5	31.2	— 0.4		se.	4	1.8			10 n			0	0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.66	728.0	30.38	771.6	25	— 3.9	88	nw.	22	9.8			10 s		nw.	0.05	1.3	cloudy	A. Pritchard.
Benton, Fort, Montana	27.41	696.2	30.41	772.4	23	— 5.0	64	sW.	10	4.5			0			0	0	clear	S. Wheaton.
Billings, Montana	26.99	685.5			16	— 8.9	70	W.	3	1.3			0	5 s	W.	0.04	1.0	fair	T. Gibson.
Bismarck, Dakota	28.35	720 1	30.33	770.4	19	— 7.2	87	nW.	24	10.7		5 ck	0	nw.		0.30	7.6	fair	Cyrus Cramer.
Block Island, Rhode Island	30.73	780 5	30.76	781.3	22	— 5.6	58	ne.	13	5.8			0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.54	699.5	30.50	774.7	22	— 5.6	87	W.	3	1.3			0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.59	777.0	30.75	781.0	15.0	— 9.4	30	nW.	7	3.1			0			inap.	inap.	clear	O. B. Cole.
Brownsville, Texas	29.83	757.7	29.88	758.9	67.0	19.4	91	calm	0	0			10 s			0	0	cloudy	M. McCarty.
Buffalo, New York	29.65	753 1	30.45	773.4	14	—10.0	80	ne.	10	4.5		2 cs	8k.	ne.		0	0	clear	W. Finn.
Buford, Fort, Dakota	28.22	716.8	30.40	772.1	10	—12.2	76	W.	8	3.6		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	30.44	773.2	30.75	781.0	— 1.6	—18.7	87	calm	0	0		0	0			0	0	clear	D. N. Farnell.
Cairo, Illinois	29.40	746.7	29.82	757.4	52.7	11.5	88	s.	14	6.3			10 s		s.	0.56	14.2	threatening	W. H. Ray.
Cape Henry, Virginia	30.57	776.5	30.59	777.0	39	3.9	89	ne.	26	11.6			10 s			0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.62	777.7	30.65	778.5	35.0	1.7	66	e.	7	3.1		5 c	0	ne.		0	0	fair	W. E. Smith.
Cape Mendocino, California	29.33	745.0	30.03	762.7	42	5.6	82	se.	8	3.6		0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.11	764.8	30.13	765.3	66	18.9	84	e.	8	3.6			10 ks		e.	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	28.99	736.3	29.86	758.4	35.0	1.7	85	se.	15	6.7			10 n		se.	0.46	11.7	heavy rain	L. A. Welsh.
Charleston, S. Carolina	30.26	768.6	30.32	770 1	47	8.3	93	ne.	18	8.0			10 s			0	0	threatening	J. H. Smith.
Charlotte, N. Carolina	29.57	751.1	30.46	773.7	46.0	7 8	93	ne.	13	5.8			10 n		ne.	0.75	19.0	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.14	765.5	52.0	11.1	85	s.	20	8.9			10 ks		s.	0.52	13.2	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.08	611.6	30.33	770.4	12.3	—10.9	70	n.	16	7.2		0	4 s		n.	0.03	0.8	fair	E. McGovern.
Chicago, Illinois	29.31	744.5	30.06	763.5	29.9	— 1.3	65	e.	12	5.4			10 s		e.	0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.59	777.0	30.61	777.5	34.5	1.4	66	e.	11	4.9		5 c	0	nW.		0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.46	748.3	30.14	765.5	40	4.4	100	ne.	5	2.2			10 n			0.02	0.5	light rain	R. B. Watkins.
Cleveland, Ohio	29.49	749.0	30.28	769.1	27	— 2.8	62	se.	20	8.9		7 cs	0	w.		0	0	fair	J. B. Newlin.
Coleman City, Texas	28.03	711.9	29.91	759.7	46	7.8	93	nW.	3	1.3		0	3 s		n.	0.51	13.0	clear	L. Dorman.
Columbus, Ohio	29.31	744.5	30.21	767.3	34	1.1	78	se.	10	4.5			10 s			0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	27.91	708.9	29.93	760.2	42.6	5.9	83	sW.	4	1.8		0	0			0.45	11.4	clear	J. McGlone.
Davenport, Iowa	29.22	742.2	29.92	760.0	34	1.1	79	e.	16	7.2			10 n		e.	0.06	1.5	light rain	R. R. Martin.
Davis, Fort, Texas	25.03	635.8	29.99	761.7	44	6.7	71	W.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.58	725.9	30.39	771.9	28	— 2.2	82	n.	4	1.8		0	0			0	0	clear	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.51	647.9	30.43	772.9	15	— 9.4	87	calm	0	0			10 s			0.08	2.0	cloudy	F. Willson.
Delaware Breakwater, Del.	30.03	778.0	30.05	778.5	33	0.6	78	e.	20	8.9		4 k	0	e.		0.03	0.8	light snow,	T. S. Townsend.
Denison, Texas	28.94	735.1	29.78	756.4	51.0	10.6	93	w.	9	4.0			10 s			1.34	34.0	cloudy	J. W. Byram.
Denver, Colorado	24.84	630.9	30.36	771.1	22.0	— 5.6	100	n.	10	4.5			10 n			0.03	0.8	light snow,	F. M. Neal.
Des Moines, Iowa	28.98	736.1	29.96	761.0	34	1.1	79	e.	7	3.1			10 n		e.	0.53	13.5	heavy rain,	F. W. Conrad.
Detroit, Michigan	29.52	749.8	30.27	768.8	24.4	— 4.2	80	e.	13	5.8		7 cs	0	w.		0	0	fair	E. R. Brace.
Dodge City, Kansas	27.29	693.2	30.03	762.7	33	0.6	71	nw.	24	10.7			10 s		n.	0.02	0.5	cloudy	V. P. Temple.
Dubuque, Iowa	29.24	742.7	30.00	762.0	30.3	— 0.9	88	e.	6	2.7			10 n			0.01	0.3	light rain	J. Harvey Smith.
Duluth, Minnesota	29.30	744.2	30.12	765.0	25	— 3.9	88	calm	0	0			10 s			0.04	1.0	cloudy	N. B. Couger.
Eagle Pass, Texas	29.10	739.1	29.94	760.5	49.0	9.4	63	calm	0	0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.51	647.9	30.41	772.4	— 8	—22.2	67	calm	0	0		0	0			0.28	7.1	clear	J. M. Clifford.
Eastport, Maine	30.07	779.0	30.74	780.8	8.0	—13.3	64	n.	15	6.7		0	0			inap.	inap.	clear	D. C. Murphy.
Elliott, Fort, Texas	27.25	692.1	30.15	765.8	35	1.7	72	ne.	16	7.2			10 s		ne.	0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.21	665.7	30.09	764.3	41.5	5.3	76	nw.	12	5.4		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.59	751.6	30.36	771.1	23	— 5.0	73	e.	2	0.9		0	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.51	749.5	30.23	767.8	20.5	— 6.4	76	e.	6	2.7		0	8 s		e.	0	0	cloudy	George Heatheote.
Fredericksburg, Texas	28.12	714.2	29.92	760.0	48	8.9	86	w.	1	0.4		0	0			0.25	6.3	clear	E. O'C. MacIlhenny.
Galveston, Texas	29.83	757.7	29.88	758.9	63	17.2	100	w.	16	7.2			10 n		w.	0.17	4.3	light rain	E. Mueller.
Grand Haven, Michigan	29.45	748.0	30.16	766.1	20.0	— 6.7	84	ne.	14	6.3			10 s		ne.	0	0	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.27	641.8	30.13	765.3	38	3.3	66	calm	0	0			10 s			0	0	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.46	773.7	30.48	774.2	43	6.1	93	ne.	28	12.5			10 n		e.	0.16	4.1	light rain	R. M. Crawford.
Helena, Montana	26.00	660.4	30.40	772.1	16	— 8.9	83	calm	0	0			10 s			0.17	4.3	cloudy	N. C. Smith.
Henrietta, Texas	28.82	732.0	29.87	758.7	48	8.9	85	nw.	12	5.4			10 ks		nw.	1.33	33.8	cloudy	J. P. Sherry.
Huron, Dakota	28.75	730.2	30.27	768.8	23	— 5.0	73	nw.	9	4.0			10 n			0.06	1.5	light snow	S. W. Glenn.
Indianapolis, Indiana	29.19	741.4	30.04	763.0	35.5	1.9	74	e.	6	2.7			10 n		e.	0.06	1.5	light rain	C. F. R. Wappenhans.
Indianola, Texas	29.83	757.7	29.86	758.4	57.4	14.1	88	s.	12	5.4		0	4 s		s.	0.01	0.3	fair	I. A. Reed.
Jacksboro, Texas	28.60	726.4	29.84	757.9	51	10.6	86	w	10	4.5			10 s			1.34	34.0	cloudy	D. J. Carr.
Jacksonville, Florida	30.10	766.1	30.21	767.3	62	16.7	90	ne.	2	0.9			10 s			0	0	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.74	704.6	30.42	772.7	13	—10.6	83	sw.	6	2.7		50 ck	0	nw		0.01	0.3	fair	A. Schneider.
Keokuk, Iowa	29.09	738.9	29.79	756.7	34.0	1.1	100	ne.	12	5.4			10 n		ne.	0.49	12.4	heavy rain	F. Z. Gosewisch.
Key West, Florida	30.07	763.8	30.09	764.3	74.0	23.3	76	se.	12	5.4		3 cs	2 ks		se.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.54	775.7	30.50	775.2	42	5.6	73	e.	25	11.2			10 s		e.	0	0	cloudy	H. Mc P. Baldwin
Knoxville, Tennessee	29.10	739.1	30.18	766.6	46	7.8	93	ne.	8	3.6			10 n		sw.	0.24	6.1	light rain	J. A. Cody.
La Crosse, Wisconsin	29.19	741.4	30.03	762.7	31	— 0.6	78	se.	3	1.3			10 n			0.10	2.5	heavy snow	S. C. Emery.
Leavenworth, Kansas	28.89	733.8	29.84	757.9	36	2.2	89	n	12	5.4			10 n		n.	0.88	22.4	light rain	A. W. Browne.
Lewiston, Idaho	29.60	751.8	30.47	773.9	29.5	— 1.4	72	e.	0	0		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.38	746.2	29.71	754.6	55	12.8	93	s.	4	1.8			10 s		s.	1.70	43.2	cloudy	W. U. Simons.
Los Angeles, California	29.66	753.4	30.06	763.5	51	10.6	93	calm	0	0		10 ck	0	w.		0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.40	746.7	29.99	761.7	40	7.8	80	e.	7	3.1			10 n			0.17	4.3	light rain	L. M Dey.
Lynchburg, Virginia	29.85	758.2	30.57	776.5	34	1.1	52	ne.	6	2.7			10 s		ne.	0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.62	752.3	30.32	770.1	12.0	—11.1	70	e.	8	3.6		0	0			0	0	clear	F. R. Day.
Macon, Fort, North Carolina	30.46	773.7	30.47	773.9	43.0	6.1	100	ne.	25	11.2			10 n		ne.	0.13	3.3	light rain	William Daly.
Madison, Wisconsin	28.96	735.6	30.05	763.3	27	— 2.8	88	e.	10	4.5			10 s			inap.	inap.	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.66	651.8	30.20	767.1	20	— 6.7	48	w.	12	5.4		0	0			0.03	0.8	clear	F. Burke.
McKavett, Fort, Texas	27.73	704.3	30.11	764.8	46	7.8	76	w.	8	3.6		0	0			1.36	34.5	clear	J. E. Thatcher.
Marquette, Michigan	29.40	746.7	30.18	766.6	21	— 6.1	84	se.	10	4.5			10 s			0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.44	747.8	29.79	756.7	53	11.7	100	se.	4	1.8			10 s			0.60	15.2	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.32	744.7	30.12	765.0	33	0.6	88	se.	19	8.5			10 s			0	0	cloudy	W. Line.
Missoula, Fort, Montana	27.01	686.0	30.44	773.2	19	— 7.2	58	nw.	1	0.4		3 cs	0			0	0	clear	I. H. Young.
Mobile, Alabama	29.93	760.2	29.97	761.2	66.5	19.2	97	s.	14	6.3		4 cs	6 ks		s.	1.21	30.7	cloudy	C. A. Read.
Montgomery, Alabama	29.79	756.7	30.03	762.7	58.3	14.6	74	se.	12	5.4			10 s		sw.	0.15	3.8	threatening	J. B. McLaughlin.
Moorhead, Minnesota	29.10	739.1	30.20	767.1	6	—14.4	100	n.	10	4.5		0	0			0.16	4.1	clear	H. Bessant.
Morgantown, W. Virginia	29.33	745.0	30.40	772.1	33.5	0.8	75	e.	9	4.0			10 s		e	0	0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H	24.00	609.6	30.62	777.7	9.0	—12.8	63	nw.	15	6.7		0	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.35	745.5	29.96	761.0	52.0	11.1	96	se.	12	5.4			10 n		se.	0.41	10.4	light rain	L. N. Jesunofsky.
New Haven, Connecticut	30.03	778.0	30.75	781.0	9	—12.8	66	ne.	14	6.3		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.73	780.5	30.78	781.8	18	— 7.8	67	n.	4	1.8		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.86	758.4	29.92	760.0	69.0	20.6	93	s.	7	3.1			10 s		s.	0.03	0.8	threatening	L. Dunne.
Newport, Rhode Island	30.71	780.0	30.76	781.3	16.3	— 8.7	73	n	8	3.6		0	0			0.01	0.3	clear	W. McGillivray.
New York, New York	30.57	776.5	30.76	781.3	18	— 7.8	83	e.	12	5.4		7 cs	fg.	w.		map.	map.	fair	J. B. Merrill.
Norfolk, Virginia	30.57	776.5	30.60	777.2	39	3.9	65	e.	8	3.6			10 s		e.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.14	689.3	30.24	768.1	27.6	— 2.4	78	nw.	30	13.4			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington Ty.	30.29	769.4	30.33	770.4	30.0	— 1.1	100	calm	0	0			fg.			0	0	dense fog	J. Dascomb.
Omaha, Nebraska	28.74	730.0	30.02	762.5	33.6	0.9	94	n.	9	4.0			10 s			0.27	6.9	threatening	A. Pollak.
Ooglamie, Alaska	30.50	774.7	30.53	775.4	—25.4	—31.9		nnw.	4	1.8		0	0			map.	map.	clear	P. H. Ray.
Oswego, New York	30.27	768.8	30.62	777.7	10.0	—12.2	47	se.	10	4.5		2 cs	0			0	0	clear	J. G. Linsley.
Palestine, Texas	29.30	744.2	29.88	758.9	51.5	10.8	76	sw.	12	5.4		0	0			0.09	2.3	clear	L. M. Pindell.
Pensacola, Florida	29.98	761.5	30.01	762.2	66.1	18.9	97	se.	18	8.0			10 s		s.	0.02	0.5	threatening	M. McGauran.
Philadelphia, Pa	30.00	777.2	30.71	780.0	24	— 4.4	61	ne.	8	3.6		4 cs	0	w.		0	0	fair	E. M. Mattison.
Pike's Peak, Colorado	17.53	445.3	30.25	768.3	5	—15.0	100	sw.			4		10 n		sw.	0.10	2.5	light snow	H. Hall.
Ploche, Nevada	24.11	612.4	30.27	768.8	25.4	— 3.7	75	n.	8	3.6		0	hz.			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.53	750.0	30.39	771.9	29.5	— 1.4	72	e.	8	3.6		0	0			0	0	clear	W. A. Reid.
Poplar River, Montana	28.10	713.7	30.45	773.4				w.			4	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	29.90	761.0	29.98	761.5	62.3	16.8	98	s.	7	3.1			10ks;fg		s.	0	0	cloudy	H. B. Boyer.
Port Huron, Michigan	29.59	751.6	30.32	770.1	17.6	— 8.0	70	se.	5	2.2		0	0			0	0	clear	W. O. Bailey.
Portland, Maine	30.71	780.0	29.70	781.3	12	—11.1	61	nw.	4	1.8		0	0			0	0	clear	W. W. Elchelberger
Portland, Oregon	30.22	767.6	30.29	769.4	34.0	1.1	89	nw.	3	1.3		0	0			map.	map.	clear	M. L. Hearne.
Portsmouth, N. C.					44.0	6.7	93	ne.	36	16.1			10 s			0.52	13.2	cloudy	F. S. Coburn.
Prescott, Arizona	24.75	628.6	30.11	764.8	35.0	1.7	92	sw.	3	1.3			10 s			0	0	cloudy	Jas Cassidy.
Provincetown, Mass	30.71	780.0	30.74	780.8	23	— 5.0	61	ne.	0	0						0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.12	765.0	30.13	765.3	66.5	19.2	92	e.	7	3.1		2 k	0	ne.		0	0	cloudy	W. J. Evans.
Red Bluff, California	29.75	755.6	30.12	765.0	47	8.3	35	n.	10	4.5		8 c	0	sw.		0	0	clear	J. R. Williams.
Rochester, New York	29.84	757.9	30.55	776.0	6	—14.4	70	se.	16	7.2		0	0			0	0	fair	E. W. McGann
Roseburg, Oregon	29.71	754.0	30.28	769.1	30	— 1.1	95	calm	0	0		5 c	hz.			0	0	dense fog	J. J. Nanry.
Sacramento, California	30.00	762.0	30.08	764.0	43.9	6.6	93	n.	4	1.8			fg.			0	0	dense fog	J. A. Barwick
St. Louis, Missouri	29.12	739.6	29.76	755.9	42.5	5.8	100	e.	12	5.4			fg.			0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.38	771.6	30.42	772.7	—14	—25.6	100	n.	20	8.9			10 s		e.	0.01	15.5	cloudy	A. P. Leavitt
St. Paul, Minnesota	29.12	739.0	30.06	763.5	26.0	— 3.3	88	calm	0	0			10 s			map.	map.	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.17	740.9	30.14	765.5	5	—15.0	87	nw.	12	5.4			10 s			0.05	1.3	cloudy	O. B Dilley.
Salt Lake City, Utah	25.90	657.8	30.40	772.7	25	— 3.9	64	nw.	3	1.3		0	0			0.01	0.3	clear	J. Craig.
San Antonio, Texas	29.18	741.2	29.90	759.4	50.0	10.0	64	w.	3	1.3		0	0			0.05	1.3	clear	T. J. Kenan.
San Diego, California	29.96	761.0	30.03	762.7	54.1	12.3	86	w.	2	0.9			10 s			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.52	749.8	30.24	768.1	30	— 1.1	78	se.	12	5.4			10 s			0.01	0.3	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.71	780.0	30.74	780.8	22.0	— 5.6	73	e.	16	7.2		5 k	0	e.		0	0	cloudy	B. A. Blundon.
San Francisco, California	30.02	762.5	30.10	764.5	49	9.4	89	w.	3	1.3			9 s		se	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.07	586.0	30.15	765.8	30	2.2	56	n.	13	5.8		10 c	0	sw.		0	0	cloudy	H. U. Jones.
Savannah, Georgia	30.19	766.8	30.28	769.1	53	11.7	80	e.	10	7.2			10 ks		e.	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.52	673.6	30.30	771.1	23	— 5.0	73	sw.	11	4.9		3 cs	0			0.01	0.3	clear	A. L. Mathews.
Shreveport, Louisiana	29.52	749.8	29.77	756.1	56	13.3	86	sw.	10	4.5		0	2 ks		sw.	1.30	33.0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.55	725.2	29.86	758.4	40.5	8.1	88	n.	14	6.3		0	9 ks		n.	0.74	18.8	cloudy	W. M. Mattingly.
Silver City, New Mexico	24.24	615.7	30.09	764.3	35.0	1.7	92	nw.	4	1.8		0	8 s			0	0	cloudy	N. D. Lane.
Sitka, Alaska	29.66	753.4	29.73	755.1	39.6	4.2	78	se.	13	5.8			10 n		se.	1.15	29.2	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.18	741.2	29.68	753.9	49.5	9.7	96	sw.	3	1.3			10 n			2.49	63.2	heavy rain	J. B. Campbell.
Smithville, North Carolina	30.38	771.6	30.42	772.7	43	6.1	100	ne.	20	8.9			10 n			0.30	7.6	light rain	O. Parker.

STATIONS.	Barometer: Corrected for instrumental error and for temperature.		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.29	718.6	30.42	772.7	25.2	— 3.8	83	calm	0	0	.....	8 c	0	.....	.....	0	0	cloudy	H. Clifford.
Springfield, Illinois	29.12	739.6	29.85	758.2	37	2.8	89	e.	16	7.2	.....	.....	10 n	.....	e.	0.51	13.0	light rain	T. B. Jennings.
Springfield, Missouri	28.19	716.0	29.70	754.4	50.0	10.0	93	s.	16	7.2	.....	.....	10 s	.....	se.	1.26	32.0	threatening	J. H. Bryce.
Starkville, Miss.	29.43	747.5	29.93	760.2	56	13.3	100	e.	9	4.0	.....	.....	10 n	.....	e.	2.43	61.7	heavy rain	C. Dill.
Stevenson, Fort, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Schneider.
Stockton, Fort, Texas	26.85	682 0	29.98	761.5	46	7.8	77	sw.	12	5.4	.....	0	0	.....	.....	0.21	5.3	clear	A. J. Warren.
Thatcher's Island, Mass.	30.72	780.3	30.78	781.8	23.4	— 4.8	80	ne.	0	2.7	.....	0	0	.....	.....	inap.	inap.	clear	G. Liebmann.
Thomas, Camp, Arizona	27.39	695.7	30.22	767.6	40	4.4	92	calm	.....	.....	0	2 ck	3 s	.....	.....	0	0	fair	J. T. Fitzgerald.
Toledo, Ohio	29.51	749.5	30.25	768.3	25	— 3.9	73	e.	10	4.5	.....	10 cs	0	w.	.....	0	0	cloudy	A. Buell.
Tucson, Arizona	27.56	700.0	30.04	763.0	45	7.2	63	se.	2	0.9	.....	10 ck	0	w.	.....	0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	30.05	763.3	30.43	772.9	23	— 5.0	88	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	45.2	7.3	51	nw.	.....	.....	1	.....	10 s	.....	w.	inap.	inap.	cloudy	O. L. Pease.
Vicksburg, Mississippi	29.57	751.1	29.84	757.9	64.6	18.1	91	s.	13	5.8	.....	0	1 s	.....	sw.	2.38	60.5	clear	James Keneally.
Visalia, California	29.67	753.6	30.05	763.3	46.4	8.0	93	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming.	24.60	624.8	30.36	771.1	3.8	—15.7	88	w.	7	3.1	.....	0	0	.....	.....	0.07	1.8	clear	T. M. Ambler.
Washington, D. C.	30.55	776.0	30.67	779.0	24.5	— 4.2	88	ne.	5	2.2	.....	2 c	0	n.	.....	0	0	clear	B. M. Parsell.
West Las Animas, Colorado	25.04	661.4	30.17	766.3	30.5	— 0.8	100	ne.	10	4.5	.....	.....	10 n	.....	.....	0.03	0.8	light snow	F. H. Brandenburg
Williamsport, Pa.	30.04	763.0	30.67	779.0	14	—10.0	80	e.	4	1.8	.....	3 cs	0	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.38	771.6	30.44	773.2	39	3.9	100	e.	11	4.9	.....	.....	10 n	.....	.....	0.21	5.3	light rain	Samuel A. Haney
Winnemucca, Nevada	25.73	653.5	30.25	768.3	22.0	— 5.6	80	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.71	729.2	30.13	765.3	24	— 4.4	73	n.	29	13.0	.....	.....	10 s	.....	.....	0.15	3.8	cloudy	J. H. Atfield.
Yuma, Arizona	29.83	757.7	29.98	761.5	49.9	9.9	93	se.	1	0.4	.....	3 cs	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	21.96	557.8	.....	.....	55.0	12.8	77	n.	1	0.4	.....	.....	10 s	.....	n.	0	0	foggy	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	71	21.7	77	..	1	0.4	.....	0	0	.....	.....	0.03	0.8	clear	Robert Johnston.
Paramaribo, S. A.	30.02	762.5	30.03	762.7	75	23.9	90	e.	.....	.....	2	5 k	4 s	e.	.....	0.050	1.3	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	746.2	29.94	760.5	79	26.1	80	calm	.....	.....	0	7 c	0	calm	.....	0	0	fair	Francisco J. Cisneros
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.38	746.2	29.44	747.8	20	— 6.7	70	n.	.....	.....	3	8 cs	0	.....	.....	0	0	cloudy	W. J. Fisher.
St. Thomas, W. I.	30.02	762.5	30.15	765.8	75	23.9	71	e.	.....	.....	.....	0	2 k	.....	e.	0	0	clear	Aug. Wallon.
Havana, Cuba	29.98	761 5	30.04	763.0	70.0	21.1	81	e.	8	3.6	.....	2 cs	0	w.	.....	0	0	clear	Benito Vines, S. J.
York Factory, B. A.	29.89	759.2	29.95	760.7	—12.5	—24.7	100	w.	18	8.0	.....	5 k	5 s	w.	w.	0.01	0.3	snowing	Fortesque & Wood.

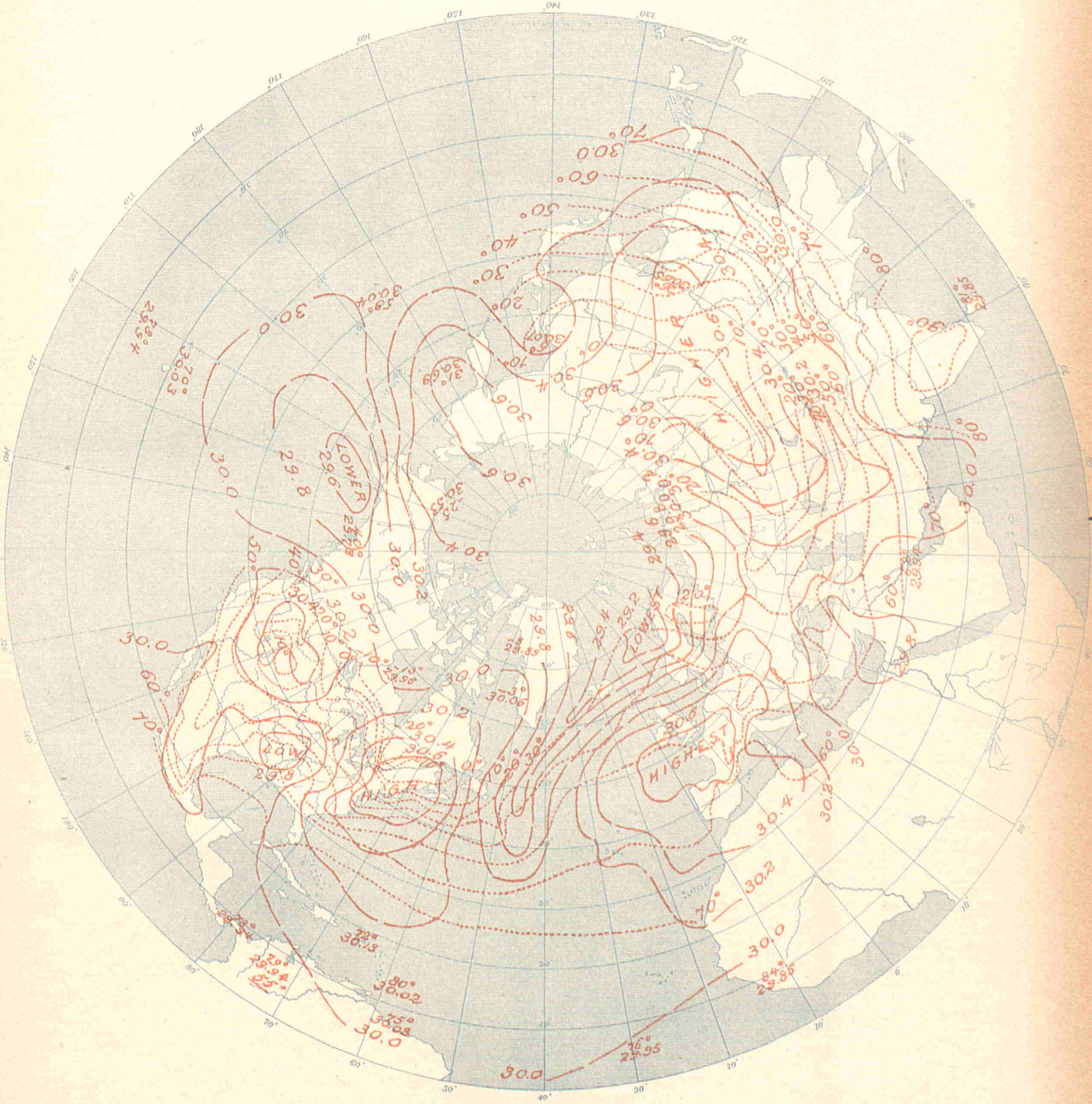
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind: Direction.	Wind: Velocity.		Wind: Force.	Clouds: Amount and kind. Upper.	Clouds: Amount and kind. Lower.	Clouds: Direction. Upper.	Clouds: Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell. Character.	Sea-swell. Direction from	WEATHER.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. Dock Yard, Bermuda, W. I.	30.32	770.1	61	16.1	77	nnw.	.....	.....	4–5	.....	10	nnw.	.....	.....	.....	.....	.....	raining.
H. M. S. Dido, N. 17° 48′, W. 76° 06′	30.12	765.0	80	26.7	.....	sse.	.....	.....	4	.....	6	e.	.....	.....	.....	sm'h	.....	squally.
H. M. S. Fawn, N. 40° 48′, W. 30° 28′	30.18	766.6	59	15.0	87	ese.	.....	.....	3	.....	3	ene.	.....	.....	.....	3	ene.	misty.
H. M. S. Monarch, Port Said, Egypt	29.75	755.6	56	13.3	87	sw.	.....	.....	2–3	.....	9	.....	.....	.....	.....	.....	.....	showery.
H. M. S. Minotaur, Vigo Bay, Spain	30.54	775.7	59	15.0	64	ne.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Tyne, N. 15° 07′, W. 55° 38′	30.04	763.0	77	25.0	77	e.	.....	.....	4	.....	2	e.	.....	.....	.....	3	e.	d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	30.76	781.3	5	—15.0	?	nw.	2	0.9	.....	.....	0	.....	.....	.....	.....	0	0	clear.
U. S. S. Alliance, N. 22° 44′, W. 78° 37′	30.09	764.3	76	24.4	100	ene.	.....	.....	3–4	.....	8	.....	.....	light	light	sm'h	.....	cloudy.
U. S. S. Kearsarge, Cartagena, U. S. C.	29.86	758.4	74	23.3	90	ene.	.....	.....	1	.....	5	.....	calm	.....	.....	.....	.....	fair.
U. S. S. Lancaster, Southampton, Eng.	30.67	779.0	50	10.0	78	nw.	.....	.....	2	.....	8	.....	calm	.....	.....	sm'h	.....	fair.
U. S. S. Portsmouth, Fort Royal, Martinique, W. I.	30.07	763.8	76	24.4	95	ne.	.....	.....	2	.....	10	.....	e.	.....	.....	sm'h	.....	cloudy.
U. S. S. Powhatan, N. 30° 06′, W. 70° 14′	30.36	771.1	68	20.0	94	ene.	.....	.....	3	.....	10	.....	.....	.....	.....	mod.	n.e.	cloudy.
U. S. S. Saratoga, N. 36° 07′, W. 62° 09′	30.31	769.9	51	10.6	78	nne.	.....	.....	6–7	.....	5?	.....	nne.	hv'y	hv'y	mod.	ne.	clear.?
U. S. S. St. Louis, League Island, Pa.	30.71	780.0	22	— 5.6	85	nne.	17	7.6	.....	.....	2	.....	.....	o	o	.....	.....	clear.
U. S. S. Swatara, Hampton Roads, Va	.....	.....	40	4.4	73	e.	.....	.....	6	.....	8	.....	e.	.....	.....	.....	.....	cloudy.
U. S. S. Tennessee, Aspinwall, Panama*	29.94	760.5	80	26.7	91	n.	5	2.2	.....	.....	5?	.....	.....	o	o	mod.	n.	clear?
U. S. S. Vandalia, N. 12° 08′, W. 77° 11′*	29.93	760.2	76	24.4	90	ene.	.....	.....	5	.....	5	.....	ne.	.....	.....	mod.	.....	fair.
U. S. S. Yantic, N. 28° 53′, W. 88° 27′	29.99	761.7	73	22.8	100	se.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
S. S. British Crown, N. 50° 52′, W. 19° 57′†	30.58	776.7	51	10.6	.....	sw.	.....	.....	4	.....	2	.....	wsw.	o	o	hv'y	nw.	clear.
S. S. British Prince, N. 39° 26′ W. 70° 49′†	30.57	776.5	32	0.0	.....	ene.	.....	.....	3	.....	3	.....	e.	o	o	sm'h	.....	clear.
S. S. Indiana, Liverpool, Eng†	30.46	773.7	46	7.8	92	nw.	.....	.....	3	.....	2	.....	nw.	o	o	.....	.....	fine.
S. S. Lord Clive, N. 42° 29′, W. 55° 00′	30.23	767.8	.....	.....	.....	nw.	.....	.....	8	.....	9	.....	nw.	3 h'r	3 h'r	high	nw.	squally.
S. S. Ohio, Delaware river†	30.66	778.7	.....	.....	.....	ne.	.....	.....	4	.....	2	.....	nne.	.....	.....	.....	.....	clear.
S. S. Pennsylvania, N. 43° 09′, W. 57° 45††	30.18	766.6	19	— 7.2	100	nne.	.....	.....	5	.....	10	.....	.....	13 h'r	13 h'r	r'gh	nw.	overcast.
S. S. Circassian, N. 43° 55′, W. 64° 30′ *	30.67	779.0	16	— 8.9	.....	n.	.....	.....	4	.....	4	.....	nne.	4 h'r	4 h'r	2	n.	d. clouds.
S. S. Manitoban, N. 43° 15′, W. 68° 08′	30.71	780.0	23	— 5.0	.....	n.	.....	.....	2	.....	3	.....	n.	o	o	sm'h	.....	fair.
S. S. Jason, N. 42° 49′, W. 52° 05′	.....	.....	.....	.....	.....	nnw.	.....	.....	5	.....	6 k	.....	.....	.....	.....	5	nw.	
S. S. Alvo, Petit Goave, Hayti, W. I.	30.05	763.3	72	22.2	.....	ne.	.....	.....	2	.....	6 k	.....	calm	ne.	4 h'r	4 h'r	.....	fine.
S. S. Alene, Kingston, Jamaica *†	30.06	763.5	.....	.....	.....	.....	.....	.....	2	.....	0	.....	.....	o	o	sm'h	.....	fine.
S. S. Ailsa, N. 20° 07′, W. 74° 03′†	30.16	766.1	79	26.1	91	e.	.....	.....	5	.....	2	.....	e.	2 h'r	2 h'r	mod.	e.	fair.
S. S. Bolivia, Glasgow, Scotland	30.48	774.2	57	13.9	.....	wnw.	.....	.....	5	.....	2	.....	.....	o	o	.....	.....	clear.
S. S. Dorian, N. 44° 45′, W. 44° 10′	29.63	752.6	48	8.9	.....	sw.	.....	.....	5	.....	10	.....	w.	3 h'r	3 h'r	mod.	wsw.	threatening.
S. S. Landaff City, N. 44° 36′, W. 43° 45′	.....	.....	46	7.8	.....	sse.	.....	.....	6	.....	8	.....	sw.	.....	.....	high	s.	cloudy.
S. S. Bothnia, N. 44° 19′, W. 47° 56′	29.66	753.4	41	5.0	91	wnw.	.....	.....	4	.....	9	.....	.....	4 h'r	4 h'r	con.	.....	overcast.
S. S. Pavonia, N. 41° 19′, W. 56° 36′	30.17	766.3	37	2.8	90	nw.	.....	.....	6	.....	9	.....	nnw.	snow	snow	r'gh	nw.	snow-squalls
S. S. Canada, N. 44° 34′, W. 48° 00′	29.87	758.6	37.4	3.0	.....	wnw.	.....	.....	5	ck	.....	nw.	.....	.....	.....	h'vy	wnw.	covered.
S. S. Ville de Marseilles, Puerto Plata, W. I*	30.20	767.1	73	22.8	.....	e.	.....	.....	4	.....	4	.....	e.	shr's	shr's	sm'h	.....	fair.
S. S. Abyssinia, New York, N. Y.	30.73	780.5	36	2.2	100	ne.	.....	.....	4	.....	0	.....	.....	o	o	sm'h	.....	blue sky.
S. S. Vandalia, N. 45° 21′ W. 46° 56′	29.62	752.3	44.6	7.0	96	sw.	.....	.....	6	.....	10	.....	sw.	3 h'r	3 h'r	5	sw.	raining.
S. S. Wieland, N. 49° 20′ W. 26° 48′	30.47	773.9	.....	.....	.....	s.	.....	.....	4	.....	9	.....	s.	o	o	mod.	s.	dense haze.
S. S. City of Berlin, N. 50° 39′, W. 25° 40′	30.49	774.4	53	11.7	86	e.	.....	.....	2	.....	5	.....	se.	6 h'r	6 h'r	sl't	s.	foggy.
S. S. Mentmore, N. 51° 23′, W. 14° 02′	.....	.....	.....	.....	.....	sw.	.....	.....	6	.....	10	.....	sw.	o	o	sm'h	sw.	gloomy.
S. S. Archimedes, N. 36° 30′, W. 12° 19′	30.33	770.4	.....	.....	.....	e.	.....	.....	3	.....	8	.....	e.	o	o	mod.	ene.	fair.
S. S. Colorado, N. 32° 50′, W. 78° 05′†	30.25	768.3	65	18.3	.....	ene.	.....	.....	6	.....	10	.....	ene.	7 h'r	7 h'r	high	ne.	cloudy.
S. S. Rio Grande, N. 24° 30′, W. 83° 10′†	30.11	764.8	77	25.0	.....	se.	.....	.....	2	.....	8	.....	se.	o	o	mod.	e.	cloudy.
S. S. San Marcos, N. 27° 00′, W. 87° 50′	.....	.....	75	23.9	.....	sse.	.....	.....	5	.....	6	.....	s.	o	o	.....	wsw.	fine.
S. S. Chalmette, N. 24° 20′, W. 81° 30′ †	30.13	765.3	74	23.3	.....	e.	.....	.....	5	.....	3	.....	ese.	o	o	mod.	e.	clear.
S. S. New York, N. 38° 15′, W. 74° 30′	.....	.....	42	5.6	.....	ene.	.....	.....	5	.....	3	.....	ne.	o	o	mod.	ne.	clear.
S. S. Lone Star, N. 31° 46′, W. 80° 00′ †	30.20	767.1	62	16.7	.....	nne.	.....	.....	4	.....	10	.....	sw.	6 h'r	6 h'r	r'gh	ne.	squally.
S. S. Picqua, N. 43° 45′, E. 8° 30′	.....	.....	62	16.7	.....	calm	.....	.....	0	.....	0	.....	.....	o	o	.....	.....	clear.
S. S. City of Merida, N. 18° 50′, W. 93° 10′†	30.01	762.2	72	22.2	.....	ese.	.....	.....	2	.....	0	.....	.....	o	o	light	e.	fine.
S. S. City of Washington, Havana, Cuba †	30.08	764.0	80	26.7	.....	var.	.....	.....	1	.....	8	.....	ene.	o	o	sm'h	.....	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
S. S. Denmark, N. 46° 04′ W. 46° 00′ †	29.46	748.3	30	— 1.1		sw.			5		10		sw.	rain	rain	mod.	wsw.	overcast.
S. S. Erin, N. 48° 54′ W. 22° 12′	30.51	774.9	51	10.6		ese.			4		7		se.	0	0	sm'h		fine.
S. S. Greece, N. 49° 50′, W. 9° 40′	30.63	778.0	50	10.0		wsw.			4		10		nw.	0	0	light	nw.	overcast.
S. S. Helvetia, N. 42° 54′, W. 56° 15′	30.18	766.6	20	— 6.7		nnw.			6		10		nw.	7 h'r	7 h'r	short	w.	snowing.
S. S. America, N. 49° 46′, W. 11° 21′*	30.74	780.8	53.0	11.7	93	sw.			4		10		sw.	0	0	r'gh	sw.	overcast.
S. S. Elbe, N 49° 40′ W. 16° 54′	30.68	779.2	51	10.6		s.			2-3		7		s.	0	0	sm'h	ssw.	cloudy.
S. S. Hermann, N. 44° 54′, W. 39° 43′	29.98	761.5	47.3	8.5	91	ssw.			6		10		sw.	2 h'r	2 h'r	5	s.	rainy.
S. S. Neckar, N. 48° 59′, W. 30° 04′	30.38	771.6	50.0	10.0	100	s.			5		9		s.	0	0	mod.	ssw.	fair.
S. S. Wesser, N. 42° 31′, W. 54° 40′	30.12	765.0				nw.			7		8		nw.	2 h'r	2 h'r	r'gh	nw.	cloudy.
S. S. Muriel, N. 20° 12′, W. 64° 08′*	30.13	765.3	74	23.3		e.			4		0					mod.	e.	
S. S. Belgenland, Antwerp, Belgium			42	5.6	100	w.			6		6		w.	0	0			fair.
S. S. Rhynland, N. 40° 50′, W. 68° 30′	30.76	781.3	38	3.3	90	nne.			5		4		n	0	0	sm'h		fine.
S. S. Pennland, N. 48° 13′ W. 41° 18′	29.92	760.0	48	8.9	78	sse.			6		9		sw.	0	0	short	sse.	misty.
S. S. Waesland, N. 49° 18′, W. 31° 21′	30.36	771.1	51	10.6		sse.			5		7		se.	rain	rain	long	w.	fair.
S. S. Zeeland, N. 44° 52′, W. 44° 39′*†	29.60	751.8	33	0.6		wnw.			6		10		wnw	shr's	sh'rs	h'vy	wnw.	overcast.
S. S. P. Caland, New York, N. Y.			39.4	4.1	90	e.			4		5		e.			4		fair.
S. S. Schiedam, N. 48° 17′, W. 30° 32′	30.34	770.6	55.9	13.3		sse.			5		9		ssw.	0	0	mod.	sw.	cloudy.
S. S. Zaandam, N. 50° 32′, W. 19° 19′	30.58	776.7	62.2	16.8	71	s.			1		4 n		sw.	0	0			fine.
S. S. Caracas, Puerto Cabello, Venezuela†	30.03	762.7	77.5	25.3	86	ene.			2		3		ene.	0	0	sm'h		fine.
S. S. Claudius, Port Antonio, Jamaica †	30.14	765.5	80.5	26.9	74	sw.			1		6		e.	light	light			fair.
S. S. State of Florida, N. 42° 17′, W. 59° 34′	30.26	768.6	30	— 1.1		n.			6		10			10 h'r	10 h'r	mod.	nne.	snowing.
S. S. Lepanto, N. 36° 16′, W. 7° 14′*†	30.65	778.5	63	17.2		e.			6		2		ese.	0	0	r'gh	e.	fair.
S. S. Marengo, N. 47° 16′, W. 34° 30′†	30.10	764.5				ese.			6		10		se.	2 h'r	2 h'r	r'gh	ese.	overcast.
S. S. Salerno, N. 49° 45′, W. 9° 29′†	30.83	783.1	52	11.1		wsw.			3		10		w.	0	0	sm'h	w.	cloudy.
S. S. Brooklyn, N. 42° 39′ W. 59° 44′			22	— 5.6		nnw.			7				nnw.	4 h'r	4 h'r	cross	n.	hazy.
S. S. Toronto. N. 43° 32′, W. 49° 28′*	29.95	760.7	28	— 2.2		nnw.			8		8		nw.	2 h'r	2 h'r	h'vy	nw.	dense haze.
S. S. Lake Huron, N. 43° 15′, W., 45° 57′*	29.53	750.0	44	6.7		wnw.			6		10		w.	7 h'r	7 h'r	mod	w.	rainy.
S. S. Olbers, N. 14° 28′, W. 26° 15′ *†	29.93	760.2	75	23.9		ene.			5		7		se.	0	0	sli't	nnw.	fine.
S. S. Plantyn, N. 40° 51′, W. 72° 52′									5		3		n.	0	0	sm'h	nne.	fine.
S. S. Catherine Whiting, Philadelphia, Pa†	30.03	778.0	60	15.6		ne.			1		0			0	0			clear.
S. S. Norman, N. 39° 59′, W. 75° 08′*†	30.70	779.8				nne.			5					0	0			clear.
S. S. Saxon, N. 40° —′, W. 73° 25′						ene.			5		8							threatening.
S. S. Baltic, N. 51° 15, W. 14° 27′*	30.59	777.0	51	10.6	93	wsw.			4		5		wsw.	0	0	mod	w.	d. clouds.
S. S. Republic, N. 40° 43′, W. 71° 16′†	30.58	776.7	46	7.8	77	var.			3		9		ne.	0	0	sm'h		d. clouds.
S. S. Iowa, N. 50° 50′, W. 17° 31′*†	30.69	779.5	57	13.9		s.			3		2		s.	0	0	sm'h	s.	clear.
Auckland, N. 22° 40′, W. 31° 32′	30.15	765.8	72	22.2	71	ne.			2		4							blue sky.
S. S. Chamois, N. 17° 09′, W. 69° 50′	30.11	764.8	77.5	25.3	72	ne.			5		5							d. clouds.
Bk. Commewyne, N. 32° 35′, W. 27° 34′*	29.94	760.5	67.1	19.5	75	s.			5		5							d. clouds.
S. S. City of Agra, N. 45° 58′, W. 26° 40′	30.45	773.4	55.6	13.1	87	ese.			5		10							overcast
S. S. Ptolemy, N. 31° 45′, W. 67° 20′	30.30	771.1	65.1	18.4	94	n.			6		10							gloomy.
Schr. Abbie H. Gheen, Wilmington, Del†	30.79	782.1	26	— 3.3		ne.			5									clear.
Bg. Abbie Clifford, N. 31° 10′, W. 79° 38′ †.	30.17	766.3	73	22.8		ese.			5		8		var.	0	0	r'gh	nne.	cloudy.
Bk. Aquidneck, N. 14° 01′, W. 36° 50′*†	30.20	767.1				e.			2				e.	0	0	light	e.	clear.
Bg. Alcira, Maracaybo, Venezuela, S. A.	30.00	762.0	82	27.8		nne.			2		0?		ne.	0	0			clear.?
Schr. Annie A. Holton, N. 23° 06′ W. 96° 53′†	29.93	760.2	73	22.8		ese.			2		8		se.	0	0	mod.	se.	fair.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.18	766.6	77	25.0		ene.			2		2		ene.	0	0			clear.
Schr. Annie Thormann, N. 33° 19′, W. 39° 34′*	30.19	766.7	62.8	17.1	70	calm			0	4 ck		wsw.		0	0	mod.	ese.	fair.
Bk. Aureola, N. 50° 58, W. 4° 35′*†	30.85	783.6	60	15.6		wsw.			4		7		w	3 h'r	3 h'r	mod.	w.	cloudy.
Bk. Achille F., N. 50° —′, W. 6° —′†	30.79	782.1	49	9.4	93	ssw.			2		10		ssw.	0	0	sm'h		overcast
Bg. Annie R. Storer, N. 17° 50′, W. 67° 00′						e.			2		2		ene.	0	0	sm'h		fair.
S. S. Burswell, Queenstown, Ireland*†	30.71	780.0	61	16.1		w.			3		4		w.	0	0	sm'h		fine.
Bk. Pilgrim, N. 13° 16′, W. 38° 39′*†	30.05	763.3				e.			5		1		e.	0	0	mod.	e.	clear
Bk. Clara M. Goodrich, N. 34° 47′, W. 71° 15′						ne.			5		5?		ene.	0	0	r'gh	ne.	cloudy?
Bk. Champion, N. 53° 37′, E. 8° 00′			48	8.9		wsw.			5		10		w.	0	0	sm'h	wnw.	hazy.
Bkt. C. S. Bushnell, Alicante, Spain	30.59	777.0				calm			0		0			0	0	mod	e.	fine.
S. Cornelius, N. 45° 21′, W. 17° 45′†	30.59	777.0	53.4	11.9		e.			4		8		ese.	0	0	sm'h		cloudy.
Bk. Commerce, Cadiz, Spain †	30.41	772.4	63	17.2		ese.			7		0			0	0			fine.
S. S. Canonbury, N. 24° 58, W., 54° 33′*†	30.27	768.8				ne.			2		3		ne.	sh'rs	sh'rs	sm'h		showery.
Bk. Chas. Stewart, N 6° 59′, W. 34° 38′†	30.00	763.5	76	24.4		ene.			6		5		e.	0	0	r'gh	e.	squally.
Schr. Edith R. Seward, San Domingo, Hayti, W. I†	30.02	762.5	73	22.8		nne.			2		4		nne.	10 minutes		mod.	se.	clear.
S. E. J. Spicer, N. 38° 55′, W. 57° 20′	30.26	768.6	46	7.8		nne.			7		10		nnw.	4 h'r	4 h'r	high	nnw.	rain & hail.
Bk. E. D. Bigelow, N. 32° 53′, W. 49° 10′ *†	30.00	762.0				wsw.			3		2		wsw.	0	0	con.	w.	squally.
Schr. F. E. McDonald, N. 28° 07′, W. 61° 40′†.	30.26	768.6				calm			0		hz			½ h'r	½ h'r	mod.	e.	fine.
S. S. Foscolio, N. 36° 50′, E. 2° 18′†	30.00	777.2				nw.			1		0			0	0	sm'h	e.	clear.
S. Festina Lente, N. 54° 30′, W. 21° 01′	30.49	774.4	43	6.1		sw.			1		8		w.	4 h'r	4 h'r	cross	var.	fair.
Bk. Guchen, N. 45° 51′, W. 6° 15′*†	30.58	776.7	53.6	12		ese.			5		7		e.			sm'h	ne.	covered.
S. Hedwig, N. 59° 13′, E. 0° 13′			49.8	8.2	76	wsw.			6		2		wsw.	0	0	4	nw.	clear.
Bk Hattie G. McFarland, Pascagoula, Miss*†	30.05	763.3	66	18.9		se.			4		10		se.	0	0			gloomy.
Bk. Horace Scudder, N. 4° 30′, W. 30° 20′ *†.	29.95	760 7	70	24.4		ne.			6		10		ne.	light	light	long	var.	squally.
Schr. Isabel Alberto, N. 26° 29′, W. 75° 42′ †	30.18	766.6				e.			2		2		se.	0	0	mod.	e.	fair
S. S. J. W. Wilson, off Tuspan Mexico*†	29.77	756.1	68	20.0		calm			0		10			0	0			foggy.
S. J. W. Gildemeister, N. 50° 18′ W. 3° 14′	30.73	780.5	44.6	7.0	100	nnw.			1		10		e.	0	0			foggy.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe*†	30.12	765.0							1		1		ene.	0	0			clear.
Bg. Lillian, N. 27° 40′, W. 65° 38′†	30.22	767.6	71	21.7		nne.			1		2			0	0	long	var.	clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764 3				e.			1		5		e.	0	0			fine.
S. S. Madrid, N. 36° 03′, W. 5° 19′ *†	30.08	779.3	58	14.4	87	ene.			4		1		ene.	0	0	su'h		fair.
Bk. Mary A. Troop, Sharpness Point, Eng*†	30.60	777.2				nnw.			6		1		nnw.	0	0			fair.
Bgt. Myrtle, St. Thomas, W. I						ene.			2		1		ene.	0	0			fair.
S. M. P. Grace, N. 46° 44′, W. 24° 48′ *.	30.42	772.7	53	11.7		ese.			1-4		8		ese.	0	0	sm'h	sse.	misty.
S. S. Mendoza, N. 17° 33′, W. 43° 38′*†	30.15	765.8				e.			4		5?		e.	0	0	sm'r		clear.?
Bkt. Norena, N. 27° 10′, W. 79° 30′*†	30.26	768.6				ese.			3		3		se.	0	0	mod.	nne.	fine.
Bk. Orpheus, N. 46° 54′, W 16° 30′	30.55	776.0	54	12.2		ssw.			2		9k		sw.			sm'h		cloudy.
Bk. Ottawa, N. 33° 24′, W. 17° 40 *.	30.30	769.6	60	18.9		se.			4		8		sw.	0	0	cross	var.	cloudy.
Bk. Reindeer, N. 28° 28′, W. 72° 13′*.	30.17	766.3				ene.			6		10		ene.			long	ene.	snowing.
S. Rudolph, N. 22° 08′, W. 51° 47			77.0	25.0		ene.			0-1		4		e.	½h'r	½h'r	mod.	e.	fair.
Bk. Rebus, N. 37° 11′, W. 19° 18′*	30.22	767.6	60	15.6		sc.			5		10		se.	0	0	mod	ene.	misty.
Bk. Sunbeam, N. 23° 31′, W. 39° 24′	30.10	764.5	74	23.3	81	s.			2		5		ne.	1 h'r	1 h'r	mod.	ene.	fair.
Bk. Usko, N. 27° 54′, W. 28° 24′ *.	29.97	761.2	69	20.6		sw			2		0?			0	0	mod.	e.	fair?
S. Vincenzo Accame, N. 45° 00′, W. 30° 35′ *†.	30.35	771.0	60.8	16		w.			5		10		ese.	0	0	cross	var.	
Schr. Viola Reppard, N. 37° 00′, W. 74° 49′						ne.			4		3		ne.	0	0	r'gh	ne.	fair.
Schr. Wm. Wiler, St. Thomas Island, W. I†	30.00	763.5				ne.			5		5		ne.	0	0			fine.
S. Wm. Woodbury, N. 59° 51′, W. 11° 35′*	29.94	760.5	42	5.6		wsw.			9		0?		w.			high	w.	clear?
S. S. Colon, Aspinwall, Panama †	29.95	760.7	78	25.6		ne.			3		9		ne.	0	0	mod.		cloudy.
District No. 2—South Atlantic.																		
U. S. S. Brooklyn, Montevideo, Uruguay *	29.90	761.0	72	22.2	85	n.	12	5.4			2		calm	0	0			fair.
U. S. S. Galena, Colonia, Uruguay*	29.93	760.2	75	23.9	90	n.			2		2		n.			sm'h		clear.
S. S. Grecian, Buenos Ayres, La Plata*	29.97	761.2	75	23.9	81	nw.			2		0			0	0			clear.
S. S. Hevelius, S. 12° —′, W. 33° —′ †	30.12	765.0	82	27.8		ene.			6		4?		ese.	0	0			clear?
Caldew, S. 2° 25′, W. 20° 21′	29.94	760.5	80	26.7	84	calm			0		6							misty.
May Hulse, S. 57° 33′, W. 69° 05′	28.80	731.5	40.2	4.6	80	wsw.			1		10							overcast.
Bk. Ceres, S. 18° 51′, W. 35° 38′*	30.04	763.0	82.8	28.2	76	ne.			2		2		ene.	0	0	su'h	ene.	clear.
Bk. Bare, S. 2° 50′, W. 28° 33′*†	30.29	769.4	80	26.7		ene.			4		10		sse.	18 h'r	18 h'r	su'h		cloudy.
S. Armenia, S. 6° 55′ W. 34° 05′ *.	29.84	757.9	84	28.9	83	sc.			3		0?		se.	0	0	mod.	se.	clear?

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2—South Atlantic.—Continued.																		
Bk. Essex, S. 26° 06′, E 3° 36′ *†	30.02	762.5	80.0	26.7	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	sse.	fine.
Bk. E. L. Pettingill, S. 13° 24′, W. 30° 06′ *†	30.10	764.5	82	27.8	.....	ene.	.....	.....	5	.....	2	.....	calm	0	0	sm'h	.....	
S. E. B. Sutton, S. 33° 50′ W. 49° 50′ †	30.11	764.8	72	22.2	85	w.	.....	.....	2	.....	1	.....	sw.	¼h'r	¾h'r	mod.	se.	clear.
S. Grecian, S. 36° 03′, W. 17° 11†	29.84	757.9	72	22.2	85	calm	.....	.....	0	.....	0	.....	.....	0	0	mod.	s.	clear.
S. Sovereign of the Seas, S. 49° 44′, W. 44° 32′ *†	29.19	741.4	46	7.8	84	wsw.	.....	.....	5	.....	5	.....	wsw.	19 h'r	19 h'r	mod.	wsw.	fine.
S. Titan, S. 42° 25′, W. 54° 28′*†	29.60	751.8	66	18.9	94	wnw.	.....	.....	5	.....	1	.....	wnw.	0	0	r'gh	wnw.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay †	30.02	762.5	69	20.6	.....	n.	.....	.....	3	.....	2	.....	n.	0	0	.....	.....	clear.
District No. 3—North Pacific.																		
S. S. Mexico, N. 34° 11′, W. 120° 10′ †	30.10	764.5	56	13.3	81	nw.	.....	.....	2	.....	10	.....	nw.	.....	.....	long	w.	cloudy.
S. S. Belgic, N. 39° 29′, E. 170° 31′ *†	29.94	760.5	59	15.0	88	ese.	.....	.....	6	.....	3	.....	ese.	10 h'r	10 h'r	r'gh	con.	clear.
S. S. Coptic, N. 38° 00′, W. 170° 52′	29.93	760.2	56.5	13.6	75	var.	.....	.....	4	.....	6	.....	nw.	sh'rs	sh'rs	mod.	con.	showery.
S. S. Oceanic, N. 30° 30′, E. 128° 23′*	30.13	765.3	59	15.0	94	n.	.....	.....	5	.....	9	.....	sw.	.....	.....	sm'h	n.	cloudy.
S. S. Oregon, Portland, Oregon †	30.33	770.4	34	1.1	90	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Mississippi, N. 43° 09′, W. 124° 34′†	30.16	766.1	46	7.8	77	n.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Willamette, Seattle, Wash. Ter †	30.43	772.9	31	— 0.6	100	calm	.....	.....	0	.....	2	.....	nw.	0	0	.....	.....	clear.
S. S. City of Chester, Eureka, Cal*†	30.08	764.0	42	5.6	83	nw.	.....	.....	2	.....	10	.....	nw.	0	0	.....	.....	foggy.
S. S. Dakota, Victoria, B. C* †	30.29	769.4	30	—1.1	89	ne.	.....	.....	1	.....	8	.....	nw.	0	0	sm'h	.....	cloudy.
S. S. G. W. Elder, San Francisco, Cal*†	30.15	765.8	49	9.4	85	nnw.	.....	.....	3	.....	0	.....	.....	.....	.....	mod.	n.	clear.
S. S. Orizaba, N. 33° 43′, W. 118° 15′*†	30.02	762.5	57	13.9	81	calm	.....	.....	0	.....	.....	.....	sw.	0	0	sm'h	se.	cloudy.
S. S. Queen of the Pacific, Portland, Oregon †	30.29	769.4	.....	.....	.....	nw.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	nw.	clear.
S. S. State of California, San Francisco, Cal†	30.14	765.5	45	7.2	100	sw.	.....	.....	2	.....	8	.....	sw.	.....	.....	.....	.....	overcast.
S. S. City of New York, N. 12° 44′, W. 160° 44′†	29.94	760.5	78	25.6	86	ese.	.....	.....	4	.....	10	.....	ese.	1 h'r	1 h'r	mod	se.	cloudy.
S. S. City of Pekin, N. 30° 00′, E. 131° 00′†	30.12	765.0	61	16.1	66	n.	.....	.....	5	.....	10	.....	nw.	.....	.....	mod	nne.	cloudy.
S. S. City of Rio de Janeiro, N. 22° 55′, W. 106° 29′	.....	.....	62	16.7	83	nw.	.....	.....	2	.....	0	.....	.....	0	0	light	w.	clear.
S. S. Colima, Panama, Panama†	29.94	760.5	73	22.8	90	n.	.....	.....	3	.....	8	.....	n.	0	0	.....	.....	cloudy.
S. S. San José, N. 16° 55′, W 100° 18′ †	29.99	761.7	80	26.7	82	sw.	.....	.....	1	.....	1	.....	ssw.	0	0	.....	.....	clear.
H. M. S. Curacoa, Kobe, Japan	.....	.....	47.5	8.6	78	n.	.....	.....	2–3	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	30.00	762.0	69	20.6	.....	calm	.....	.....	0	.....	1	.....	.....	.....	.....	.....	.....	blue sky
H. M. S. Swiftsure, N. 11° 40′, W. 131° 00′	29.93	760.2	76	24.4	100	nne.	.....	.....	5	.....	10	.....	ne.	.....	.....	.....	.....	squally.
U. S. Naval Hospital, Yokohama, Japan*	30.16	766.1	40	4.4	73	nnw.	.....	.....	2	.....	10	.....	ne.	0.93	23.6	.....	.....	sprinkling.
U. S. S. Independence, Mare Island, Cal.	30.16	766.1	47	8.3	92	nnw.	.....	.....	1	.....	8	.....	w.	0	0	.....	.....	cloudy.
U. S. S. Lackawanna, Honolulu, Sandwich Islands*	29.93	760.2	70	21.1	75	n.	.....	.....	1	.....	2	.....	n.	.....	.....	.....	.....	clear.
U. S. S. Monocacy, Hong Kong, China	30.12	765.0	63	17.2	78	ne.	.....	.....	2	.....	10	.....	calm	.....	.....	sm'h	.....	misty.
U. S. S. Palos, Tientsin, China*	30.48	774.2	28	—2.2	67	nnw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Ranger, Mare Island, Cal.	30.08	764.0	47	8.3	77	nw.	.....	.....	1	.....	8	.....	.....	0	0	.....	.....	cloudy.
U. S. S. Richmond, Hong-Kong, China*	30.05	763.3	62	16.7	83	wnw.	.....	.....	2	.....	10	.....	wnw.	0	0	.....	.....	cloudy.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.90	761.0	69	20.6	90	calm	.....	.....	0	.....	2	.....	ne.	.....	.....	sm'h	.....	fair.
S. S. Scotia, N. 22° 17′, E. 115° 16′	30.13	765.3	63	17.2	78	ene.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. Henry Failing, Wilmington, Cal†	29.90	759.4	62	16.7	.....	var.	.....	.....	.....	.....	5	.....	se.	0	0	sm'h	.....	fine.
Tamega, Macao, China	30.18	766.6	52.7	11.5	84	nw.	.....	.....	6	.....	10	.....	.....	0	0	.....	.....	overcast
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.95	760.7	68	20.0	90	s.	.....	.....	1	.....	4	.....	sse.	.....	.....	.....	.....	foggy.
H. M. S Heroine, Port Famine, Patagonia	28.99	736.3	49	9.4	100	wnw.	.....	.....	1	.....	5	.....	wnw.	.....	.....	sm'h	.....	d. clouds.
H. M. S. Kingfisher, S. 10° 08′, W. 112° 07′	29.89	759.2	77	25.0	.....	ese.	.....	.....	3	.....	7	.....	.....	.....	.....	4	se.	d clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	29.82	757.4	69.3	20.7	95	n.	.....	.....	4	.....	10	.....	.....	.....	.....	2	ne.	showery.
H. M. S. Liffey S. 29° 56′, W. 71° 20′	29.93	760.2	62	16.7	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S Rocket, S. 49° 24′, W. 62° 58′	29.08	738.6	55	12.8	93	nnw.	.....	.....	2	.....	5	.....	.....	.....	.....	4	wnw.	d. clouds.
H. M. S. Sylvia, Sandy Point, Patagonia	29.02	737.1	46	7.8	84	nw.	.....	.....	2–4	.....	10	.....	.....	.....	.....	.....	.....	showery.
U. S. S. Essex, Callao, Peru	29.89	759.2	65	18.3	94	sse.	.....	.....	1	.....	8	.....	sse.	.....	.....	.....	sse.	fair.
U. S. S. Iroquois, S. 35° 56′, W. 96° 57′	30.32	770.1	71	21.7	90	w.	.....	.....	4	.....	8?	.....	w.	.....	.....	long	s.	clear?
U. S. S. Onward, Callao, Peru*†	30.04	763.0	66	18.9	89	sse.	.....	.....	1	.....	5	.....	n.	.....	.....	.....	.....	fair.
U. S. S. Pensacola, Valparaiso, Chili*	29.90	759.4	58	14.4	82	nne.	.....	.....	1	.....	10	.....	.....	0	0	sm'h	.....	cloudy.
British Merchant, S. 45° 39′, W. 132° 06′	29.75	755.6	50.2	10.1	72	nw.	.....	.....	1	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Childwall, S. 30° 06′, W. 131° 00′ *	29.61	752.1	74	23.3	.....	nnw.	.....	.....	2	.....	9	.....	nnw.	20 h'r	20 h'r	sm'h	s.	raining.
Bk. Edmund Phiney, S. 55° 32′, W. 74° 52′ †	29.04	737.6	42	5.6	.....	sw.	.....	.....	5	.....	9	.....	sw.	slight	slight	mod.	var.	cloudy.
Bk. Gronsvaer, Auckland, N. Z †	29.79	756.7	72.8	22.7	.....	ne.	.....	.....	7	.....	10	.....	ne.	8 h'r	8 h'r	.....	.....	misty.
Bk. Godeffroy, S. 33° 27′, W. 92° 07′*	30.06	763.5	69.8	21.0	91	s.	.....	.....	4	.....	5	.....	s.	rain	rain	mod.	var.	fair.
S. St. Francis, S. 3° 09′ W. 126° 38′†	29.56	750.8	75	23.9	.....	se.	.....	.....	5	.....	3	.....	se.	0	0	sm'h	se.	fine.
S. S. Australia, Sydney, N. S. W.*	29.04	752.8	71	21.7	95	sw.	.....	.....	1	.....	.....	.....	w.	1 h'r	1 h'r	.....	.....	clear.
S. S. City of Sydney, S. 34° 07′, W. 164° 10′†	29.87	758.7	67	19.4	84	ssw.	.....	.....	3	.....	8	.....	sw.	.....	.....	long	se.	drizzling.
H. M. S. Gannet, S. 2° 12′, W. 79° 51′	29.86	758.4	78	25.6	86	ne.	.....	.....	1	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
S. Geo. Stetson, S. 54° —′, W. 76° —′ *†	29.50	749.3	46	7.8	77	sw.	.....	.....	7	.....	7	.....	sw.	0	0	.....	sw.	cloudy
Bk. Warden Law, S. 42° 04′, W. 90° 38′*	30.27	768.8	.....	.....	.....	w.	.....	.....	5	.....	6?	.....	w.	0	0	sm'h	sw.	cloudy?
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 6° 10′, E. 39° 11′	29.84	757.9	84	28.9	.....	calm	.....	.....	0	.....	8	.....	nnw.	.....	.....	.....	.....	d. clouds.
H. M. S. Eclipse, N. 29° 43′ E. 48° 45′	29.84	757.9	62	16.7	.....	sse.	.....	.....	2	.....	3	.....	wsw.	.....	.....	.....	.....	d. clouds.
H. M. S. Euryalus, N. 20° 23′, E. 88° 45′	29.89	759.2	77	25.0	77	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	.....	blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.86	758.4	82	27.8	.....	ese.	.....	.....	1	.....	3	.....	calm	.....	.....	1	sse.	d. clouds.
H. M. S. Woodlark, Chakbar Bay, Arabia	30.04	763.0	68.5	20.3	79	ne.	.....	.....	2	.....	8	.....	ne.	.....	.....	.....	.....	showery
S. S. Galatia, N. 6° 10′, E. 81° 35′†	29.85	758.2	81	27.2	91	nne.	.....	.....	5	.....	2	.....	ne.	0	0	mod.	ne.	fine.
S. Sacramento, S. 44° 54′, E. 74° 00′*†	30.19	766.8	59	15.0	94	nne.	.....	.....	5	.....	10	.....	.....	driz.	driz.	mod.	sw.	drizzling

International Chart I. February 24, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B. Hazen, Chief Signal Officer.
Signal Office, 14th.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 25, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer, Corrected for instrumental error and for temperature. Inch.	Barometer, Corrected for instrumental error and for temperature. Mill.	Barometer, Reduced to sea-level. Inch.	Barometer, Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours	.....	.....	30.51	775.0	63.3	17.4	76	s.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	**Malaterre.**
Algiers	.....	.....	30.51	775.0	64.4	18.0	62	wnw.	.....	.....	4	.....	0	.....	.....	0	0	clear.....	**Thève.**
La Calle	.....	.....	30.40	772.2	61.9	16.6	81	nw.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair...	**Fonfrède.**
Tunis	.....	.....	30.33	770.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	**Jacques.**
Saida	.....	.....	30.33	770.4	65.5	18.6	79	wsw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	**Pérès.**
Tebessa	.....	.....	30.47	773.8	52.5	11.4	64	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	**Dognon.**
Geriville	.....	.....	.....	.....	58.6	14.8	24	nnw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	**Forfert.**
Laghouat	.....	.....	30.43	773.0	59.0	15.0	47	n.	.....	.....	4	.....	0	.....	.....	0	0	clear.....	**Abraham.**
Biskra	.....	.....	30.43	773.0	71.2	21.8	27	calm	.....	.....	0	.....	0	.....	.....	0	0	clear.....	**Malau.**
Australian.																			
Melbourne, Victoria	29.88	758.9	29.97	761.2	65.2	18.4	87	sw.	9	4.0	.....	.....	2	.....	.....	0	0	fine.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.84	757.8	30.41	772.3	44.6	7.0	61	sw.	.....	.....	4	.....	3	.....	.....	0	0	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	29.37	745.9	30.15	765.9	42.4	5.8	73	nw.	11.2	5.0	.....	.....	10	.....	.....	0.055	1.4	....	Dr. Wierzbiski.
Eperies	29.24	742.8	30.16	766.1	35.6	2.0	84	s.	.....	.....	2	.....	9 ks	.....	s.	0	0	....	Julius Mikolik.
Gratz	29.07	738.3	30.38	771.6	51.1	10.6	45	n.	.....	.....	5	.....	3	.....	.....	0	0	....	Andreas Rospini.
Hermannstadt	28.75	730.2	30.24	768.2	36.0	2.2	79	nnw.	.....	.....	2	.....	10	.....	.....	0.189	4.8	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	29.13	739.9	30.53	775.5	40.1	4.5	89	w.	.....	.....	5	.....	10	.....	.....	0.035	0.9	gloomy.....	**The Staff.**
Lemberg	28.98	736.2	30.01	762.2	36.5	2.5	84	w.	.....	.....	5	.....	10	.....	.....	0.260	6.6	.....	Dr. T. Stanecki.
Neu Schmecks	26.66	677.1	30.10	764.4	40.6	4.8	61	calm	.....	.....	0	.....	3	.....	.....	0.287	7.3	.....	**Dr. V. von Szontagh.**
Pola	30.31	769.8	30.41	772.3	48.0	8.9	75	wnw.	.....	.....	2	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.75	755.7	30.22	767.7	34.7	1.5	72	sw.	.....	.....	3	.....	10	.....	.....	0	0	.....	Joseph Midlinszay, S. J.
Szegedin	30.00	761.9	30.29	769.4	34.9	1.6	89	w.	.....	.....	2	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.32	770.1	30.42	772.6	50.0	10.0	60	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	Royal Academy.
Vienna	29.62	752.3	30.35	771.0	45.0	7.2	72	w.	.....	.....	6	.....	1	.....	.....	0.091	2.3	....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.47	773.9	30.57	776.5	47.7	8.7	51	wnw.	18	8.0	.....	.....	2	.....	.....	0	0	blue sky.....	W. Boswell
Armagh, Observatory	30.43	772.9	30.68	779.3	47.9	8.8	81	w.	3	1.3	.....	.....	.....	.....	.....	.....	.....	.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.67	779.0	47.8	8.8	77	w.	3	1.3	.....	.....	10	.....	.....	.....	.....	overcast.....	John Hartnup.
Bolton, Sharples	30.11	764.8	30.66	778.7	48.3	9.1	69	w.	6	2.7	.....	.....	6	.....	.....	.....	.....	d. clouds.....	Thomas Mackereth.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	McLandsborough & Preston.
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	80.0	26.7	66	ne.	.....	.....	3	.....	2	.....	.....	.....	.....	d. clouds.....	Corpl. J. Surgenor, A. H. C
Cardington	30.58	776.7	30.69	779.5	48.6	9.2	85	nw.	.....	.....	0.4	.....	10	.....	.....	.....	.....	overcast.....	John McLaren.
Chatham, School M. E.	30.56	776.2	30.70	779.8	48.6	9.2	83	calm	.....	.....	0	.....	10	.....	.....	.....	.....	misty.....	Corpl. G. A. Pickles.
Falmouth, Observatory	30.48	774.2	30.72	780.3	43.7	6.5	79	ese.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	**The Staff.**
Fort Napier, Natal	27.71	703.8	29.94	760.5	78.0	25.6	65	n.	.....	.....	2	.....	7	.....	.....	.....	.....	.....	Corpl. F. Milner, A. H. C.
Freetown	29.69	754.1	29.92	760.0	87.0	30.6	91	s.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	30.03	778.0	30.67	779.0	49	9.4	93	sw.	.....	.....	3	.....	4	.....	.....	0.03	0.8	d. clouds.....	Wm. Ryan.
Gibraltar, Mediterranean	30.42	772.7	29.48	774.2	69.8	21.0	86	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky.....	Sgt. F. Norris, A. H. C.
Glasgow, Observatory	30.38	771.6	30.58	776.7	46.8	8.2	66	w.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.52	775.2	30.70	779.8	46.4	8.0	85	wsw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	**The Staff.**
Guernsey	30.42	772.7	30.73	780.5	45.0	7.2	92	nnw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	A. Collenette, F. M. S
Kew, Observatory	30.67	779.0	30.71	780.0	47.0	8.7	81	wsw.	4	1.8	.....	.....	10	.....	.....	.....	.....	misty.....	**The Staff.**
Leicester, Museum	30.40	772.1	30.67	779.0	51.5	10.8	72	w.	.....	.....	1	.....	9	.....	.....	.....	.....	overcast.....	J. C. Smith.
Malta, Mediterranean	30.20	767.1	30.28	769.1	51.2	10.7	93	ne.	.....	.....	2	.....	3	.....	.....	0.02	0.5	blue sky.....	Corpl. Keene, A. H. C
Nassau, Bahamas	30.15	765.8	30.20	767.1	75.5	24.2	79	se.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe.
Oscott, St. Mary's College	30.13	765.3	30.67	779.0	49.0	9.4	81	w.	.....	.....	2	.....	10	.....	.....	.....	.....	gloomy.....	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	30.46	773.7	30.69	779.5	39.1	9.5	77	w.	.....	.....	1	.....	9	.....	.....	.....	.....	overcast.....	**The Staff.**
Plymouth	30.03	778.0	30.71	780.0	43.2	6.2	88	calm	.....	.....	0	.....	10	.....	.....	.....	.....	overcast.....	John Merrifield.
Sandwick Manse, Orkneys	30.35	771.9	30.49	774.4	43.8	6.6	85	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	showery.....	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.01	762.2	30.08	764.0	40.2	4.6	69	ne.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds.....	W. H. Lyne.
Sheffield	30.30	771.1	30.05	778.5	51.0	11.1	99	calm	.....	.....	0	.....	2	.....	.....	0	0	misty.....	W. F. Cooper.
Silloth Rectory	30.03	778.0	30.66	778.7	47.1	8.4	71	w.	.....	.....	1	.....	7	.....	.....	0	0	d. clouds.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.67	779.0	48.4	9.1	62	wnw.	13	5.8	.....	.....	7	.....	.....	.....	.....	d. clouds.....	Rev. S. J. Perry.
Stratfield Turgiss	30.48	774.2	30.71	780.0	47.8	8.8	81	sw.	.....	.....	1	.....	9	.....	.....	.....	.....	d. clouds.....	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	30.07	779.0	30.72	780.3	49	9.4	77	se.	.....	.....	4	.....	4	.....	.....	.....	.....	d. clouds.....	W. Newcombe.
Valencia, Observatory	30.03	778.0	30.05	778.5	49.4	9.7	74	sse.	16	7.2	.....	.....	4	.....	.....	.....	.....	d. clouds.....	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.79	756.7	30.18	766.6	51.8	11.0	45	ne.	12.4	5.5	.....	0	8 n	.....	ne.	0	0	cloudy.....	**Rev. Ph. Borrello.**
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10 s	.....	calm	0	0	cloudy	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.37	771.4	30.42	772.7	13	—10.6	87	s.	11	4.9	.....	.....	10 s	.....	calm	0	0	cloudy.....	H. J. Cundall, C. E.
Chatham, N. B*	30.27	768.8	30.34	770.6	8	—13.3	87	sw.	1	0.4	.....	2 k	8 s	sw.	sw.	0	0	overcast.....	G. A. Blair.
Cornwall	29.44	747.8	29.64	752.8	32.7	0.4	89	e.	.....	.....	1	.....	10 s	.....	.....	0.131	3.3	overcast.....	Jas. Smith, M. A.
Dalhousie	30.18	766.6	30.23	767.8	2.0	—16.7	.....	calm	.....	.....	0	.....	10 s	.....	.....	0	0	overcast.....	**H. A. Johnson.**
Father Point, Quebec*	29.97	761.2	29.99	761.7	19	— 7.2	96	sw.	17	7.6	.....	.....	10 n	.....	calm	0.01	0.3	light snow..	J. McWilliams.
Fort Garry, Manitoba*	29.34	745.2	30.30	769.6	—12	—24.4	50	n.	8	3.6	.....	5 k	0	n.	.....	0	0	fair.....	James Stewart.
Fredericton	30.28	769.1	30.35	770.9	2.2	—16.6	93	calm	1	0.4	.....	.....	10 s	.....	.....	0	0	overcast.....	Prof. Harrison, L. L. D.
Granton	28.60	726.4	29.73	755.1	34.0	1.1	100	w.	12	5.4	.....	.....	10 n	.....	.....	0.50	12.7	overcast.....	Jas. Grant.
Halifax, N. S*	30.37	771.4	30.52	775.2	6	—14.4	96	calm	0	0	.....	.....	sk	.....	.....	0	0	smoky.....	A. Allison.
Hamilton	29.20	743.2	29.65	753.1	35.7	2.1	98	sw.	.....	.....	3	10 cs	0	sw.	.....	0.25	6.3	overcast.....	**Geo. Dickson, B. A.**
Kingston, Ontario*	29.30	744.2	29.64	752.8	36	2.2	92	s.	11	4.9	.....	.....	10 n	.....	.....	0.12	3.0	light rain....	A. P. Knight, M. A.
Montreal, Quebec*	29.53	750.0	29.75	755.6	31	— 0.6	88	calm	0	0	.....	.....	10 s	.....	.....	0.22	5.6	sleeting	C. H. McLeod, C. E.
Ottawa	29.37	746.0	29.03	752.8	27.2	— 2.7	92	calm	.....	.....	0	.....	10 s	.....	.....	0.20	5.1	overcast.....	**A. McGill, M. A.**
Parry Sound, Ontario*	28.77	705.3	29.47	748.5	37	2.8	100	sw.	17	7.6	.....	.....	10 n	.....	sw.	0.23	5.8	light rain....	Rev. R. Mosley.
Peterboro	29.82	757.4	29.57	751.1	39.7	4.3	100	sw.	.....	.....	3	.....	10 n	.....	.....	0	0	overcast.....	J. Dixon, B. A.
Port Dover, Ontario	28.98	736.1	29.69	754.1	37	2.8	90	sw.	16	7.2	.....	.....	10 n	.....	.....	0.44	11.2	threatening.	H. Morgan.
Port Stanley, Ontario	29.08	738.6	29.75	755.6	34	1.1	82	w.	28	12.5	.....	.....	10 n	.....	sw.	0.57	14.5	cloudy.....	M. Payne.
Quebec, Quebec*	29.63	752.6	29.98	761.5	19	— 7.2	100	ne.	.....	.....	5	.....	10 n	.....	ne.	0.20	5.1	heavy snow	Capt. Ashe, R. N
Rockliffe, Ontario*	29.64	737.6	29.51	749.5	25	— 3.9	88	e.	3	1.3	.....	.....	10 n	.....	.....	0.24	6.1	light snow..	W. H. McIntyre.
Saugeen, Ontario*	28.87	733.3	29.60	751.8	31	— 0.6	91	w.	26	11.6	.....	.....	10 ks	.....	.....	0.45	11.4	cloudy.....	
St. Andrews, N. B	30.26	768.6	30.31	769.9	27	— 2.8	76	sw.	7	3.1	.....	.....	10 n	.....	.....	0.28	7.1	cloudy.....	
St. John, N. B	30.16	766.1	30.34	770.6	23	— 5.0	100	s.	19	8.5	.....	.....	10 ks	.....	.....	0.160	4.1	overcast.....	**G. Murdock, C. E.**
St. Pierre, N. F	.....	.....	30.35	770.9	6.8	—14.0	.....	nw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	**The Commandant**
Stratford	28.48	721.3	29.72	754.9	30.8	— 0.7	95	w.	21	9.4	.....	.....	10 s	.....	.....	0.357	9.1	overcast.....	**C. J. Macgregor, M. A.**
Sydney, C. B*	30.47	773.9	30.54	775.7	3	—16.1	87	s.	9	4.0	.....	5 c	0	.....	.....	0	0	fair.....	**T. C. Hill, C. E.**
Toronto, Ontario*	29.22	742.2	29.61	752.1	38	3.3	90	sw.	20	8.9	.....	.....	10 ks	.....	sw.	0.30	7.6	cloudy.....	**Magnetic Observatory.**
Toronto, Ontario*	29.22	742.2	29.61	752.1	38	3.3	90	sw.	20	8.9	.....	.....	10 n	.....	.....	0	0	overcast.....	**Prof. W. H. Butler, M.A**
Windsor	30.31	769.9	30.41	772.4	10.5	—11.9	90	s.	4	1.8	.....	.....	10 s	.....	.....	0.350	8.9	overcast.....	Prof. Wolverton, M.A.
Woodstock	28.64	727.4	29.73	755.1	34.2	1.2	98	sw.	33	14.8	.....	.....	10 k	.....	w.	0	0	cloudy	Lt. F. E. Wilmot, R. N.
Yarmouth, N. S*	30.31	769.9	30.38	771.6	27	— 2.8	86	se.	3	1.3	.....	.....	.....	.....	.....	.....	.....	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds. Amount and kind.		Clouds. Direction		Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS
								Direction.	Velocity.		Force.	Upper	Lower.	Upper.	Lower.				
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Cape Colony.																			
Cape St. Francis Lt. House	29.81	757.2	29.84	757.9	71.0	21.7	94	ne.	18.4	8.2	.....	0	8 k	.....	.....	0.110	2.8	hazy	John Duthie.
Springbok Fontein	27.85	707.4	.....	.....	83	28.3	83	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. T. Eustace.
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.74	628.3	.....	.....	9.7	—12.4	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.39	771.9	30.50	774.7	30.2	— 1.0	80	sw.	.....	.....	2	.....	0	.....	.....	0	0	clear	R. P. Desarmont, S.J.
Zi-Ka-Wei, near Shanghai	30.53	775.4	30.55	776.0	35.8	2.1	75	n.	3.8	1.7	.....	.....	9	.....	.....	0	0	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.94	760.4	29.98	761.6	41.9	5.5	59	nw.	38	17	.....	.....	1	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	30.27	768.9	30.29	769.4	42.8	6.0	78	nw.	.....	.....	6	.....	1	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.57	751.0	29.61	752.1	0.5	—17.5	100	nne.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	.....	.....	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.87	758.7	29.92	759.9	—14.8	—26.0	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.59	751.6	29.63	752.7	32.7	0.4	90	se.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	30.28	769.2	30.32	770.1	41.4	5.2	97	sw.	9	4	.....	.....	10	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	30.09	764.3	30.18	766.6	40.8	4.9	64	nw.	.....	.....	8	.....	0	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	30.00	762.1	30.05	763.3	—12.8	—24.9	.....	e.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	29.93	760.2	30.60	777.3	52.5	11.4	86	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	M. Labroue, Director.
Alençon, Normal School	30.15	765.7	30.70	779.7	41.4	5.2	94	ne.	.....	.....	1	.....	fg	.....	sw.	0	0	foggy	M. Nicot, Director.
Arras, Engineer School	30.39	772.0	30.65	778.9	44.2	6.8	92	nw.	.....	.....	1	ck	0	.....	.....	0	0	.....	M. Fénéon, Command't.
Avignon, Normal School	30.35	771.0	30.43	773.0	59.0	15	34	nnw.	.....	.....	4	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	30.14	765.6	30.73	780.6	41.9	5.5	90	ne.	.....	.....	1	.....	10	.....	ne.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.47	773.9	30.75	781.0	46.9	8.3	83	wnw.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Frère Eugène Marié
Besançon, Normal School	29.60	751.9	30.52	775.3	50.4	10.2	72	n.	.....	.....	3	.....	0	.....	.....	0.16	4.	clear	M. Gobin, Director.
Bordeaux, Observatory	30.32	770.0	30.58	776.7	58.6	14.8	41	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Rayet, Director.
Bourges, Normal School	30.15	765.7	30.72	780.4	42.8	6	85	n.	.....	.....	1	.....	8	.....	n.	0	0	very cloudy	M. Malet, Director.
Brest, Naval Observatory	30.41	772.5	30.66	778.7	55.0	12.8	76	ene.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. de Kermaëe, Dir.
Caen, Normal School	30.62	777.7	30.70	779.7	43.0	6.1	100	nnw.	.....	.....	1	.....	10	.....	e.	0.008	0.2	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.37	771.5	30.71	780.0	41.4	5.2	93	calm	.....	.....	0	.....	10	.....	.....	0	0	covered	M. Jadot, Director.
Charleville, Normal School	30.15	765.8	30.67	779.0	49.3	9.6	69	w.	.....	.....	1	.....	5	.....	.....	0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.23	742.4	30.61	777.6	54.1	12.3	62	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Allnard, Director.
Cluny, Normal School	29.85	758.2	30.72	780.3	45.9	7.7	83	ne.	.....	.....	2	.....	0	.....	.....	0	0	foggy	M. de Villemontée, Dir.
Commercy, Normal School	29.82	757.4	30.72	780.3	43.5	6.4	88	w.	.....	.....	1	.....	10 n	w.	w.	0.004	0.1	covered	Dr. Coulet, Director.
Gap, Normal School	27.90	708.7	30.50	774.6	50.0	10	50	calm	.....	.....	0	.....	3	n.	n.	0.	0	.....	M. Jeangirard, Director.
Gréusque, du Rhone	29.26	743.1	30.37	771.4	65.3	18.5	29	nw.	.....	.....	2	.....	3	.....	nw.	0	0	.....	M. Kiun, Director.
Grenoble, Normal School	29.78	756.3	30.58	776.6	54.7	12.6	45	ese.	.....	.....	1	.....	ckn	.....	.....	0	0	.....	M. Ablard, Director.
Guéret	29.02	737.2	30.68	779.2	54.1	12.3	50	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	30.47	773.9	30.75	781.0	44.2	6.8	88	n.	.....	.....	1	.....	hz	.....	n.	0	0	hazy	M. Ollitrault, Director
Lescar, Normal School	29.90	759.5	30.47	774.0	60.4	15.8	36	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.61	777.4	30.71	780.0	54.0	12.2	81	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.51	749.6	30.61	777 4	50.0	10.0	59	n.	.....	.....	2	0	0	.....	.....	0	0	clear	M. André, Director.
Mans, Normal School	30.42	772.6	30.74	780 9	40.3	4.6	98	ne.	.....	.....	3	.....	10	.....	.....	0	0	covered	M. Piboën, Director.
Marseille, Observatory	30.16	766 0	30.43	772.9	59.9	15.5	50	wsw.	.....	.....	1	.....	1	.....	.....	0	0	.....	M. Stephan, Director.
Montlouis	25 22	640.7	30.07	763.7	52.7	11.5	21	nw.	15.0	6.7	.....	.....	0	.....	.....	0	0	.....	M. Caré for Dr. Fines.
Montpellier, Normal School	30.31	769.9	30.45	773.3	66.9	19.4	44	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.82	757.4	30.64	778.2	43.2	6.2	82	w.	.....	.....	1	.....	n	.....	.....	0	0	.....	M. Husse, Director.
Nantes, Observatory	30.56	776.3	30.72	780.4	48.2	9.0	79	e.	.....	.....	1–2	.....	1 kn	n	.....	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	30.35	770.9	30.46	773 7	72.3	22.4	14	nw.	11 2	5.0	.....	.....	0	.....	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.60	548.7	.....	.....	32.7	0.4	.....	ene.	.....	.....	2	.....	1	.....	ene.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.44	747 8	30.52	775.2	57.9	14.4	44	n.	.....	.....	1	.....	2	n.	n.	0	0	slightly cl'dy	M. Taillen.
Puy de Dôme Obs'y, Summit	25 60	650.2	.....	.....	36.0	2.2	87	ne.	.....	.....	3	.....	0	.....	.....	0	0	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	30.60	777 3	30.63	778.1	58.3	14.6	58	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.44	773 1	30.65	778.6	55.0	12.8	50	nne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.37	720.7	30.58	776.6	50.7	10.4	26	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.74	780.7	30.78	781.9	47.1	8.4	77	nw.	.....	.....	1	.....	10	nw.	.....	0	0	covered	M. Mouillot.
Saint Lô	.....	.....	.....	.....	44.2	6.8	79	ne.	.....	.....	1	.....	10	ne.	ne.	0	0	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	30.57	776.5	30.74	780.7	45.1	7.3	99	calm	.....	.....	0	.....	10	.....	.....	0.008	0.2	.....	M. Renou, Director.
Toulouse, Observatory	29.86	758.4	30.60	777.1	50.9	10.5	83	ssw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Baillaud, Director.
Tours	30.54	775.7	30.72	780.2	43.9	6.6	85	n.	.....	.....	1	.....	hz	.....	nnw.	0	0	hazy	M. de Tastes.
Versailles, Observatory	30.20	767.1	30.69	779.6	43.9	6.6	91	ne.	.....	.....	1	.....	.....	.....	.....	0.008	0.2	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.42	772.8	30.58	776.6	52.5	11.4	70	ne.	7.8	3.5	.....	0	0	.....	.....	0	0	clear	M. Cartier, Director.
German.																			
Ansbach	29.09	738.9	30.60	777.1	45.0	7.2	77	w.	.....	.....	4	.....	10	w.	.....	0	0	.....	Prof. Jnedt.
Bamberg	29.64	752.9	30.50	774.7	46.4	8.0	70	nw.	.....	.....	3	0	4 k	.....	w.	0.031	0.8	.....	Prof. Dr. Hon.
Berlin	30.14	765.6	30.29	769.4	48.0	8.9	59	nw.	.....	.....	7	.....	6	.....	.....	0.008	0.2	.....	Meteorological Institute.
Breslau	29.67	753.7	30.21	767.3	45.1	7.3	55	nw.	.....	.....	7	.....	5	.....	.....	0.016	0.4	.....	Royal University [illegible]
Carlsruhe	30.16	766.0	30.64	778.2	47.1	8.4	77	sw.	.....	.....	3	.....	1	nw.	.....	0	0	.....	Albert Senz.
Cassel	29.77	756.1	30.48	774.2	47.8	8.8	65	wnw.	.....	.....	4	.....	5	nw.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	30.21	767.4	30.55	776.0	49.8	9.9	75	w.	.....	.....	1	.....	8	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	29.15	740.3	30.03	777.9	48.2	9.0	64	se.	.....	.....	1	.....	6	w.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	30.30	769.7	30.39	772.0	45.7	7.6	62	nw.	.....	.....	7	.....	6	.....	.....	0	0	.....	E. Preller.
Kiel	30.29	769.3	30.30	769.7	44.2	6.8	63	nw.	.....	.....	5	.....	8	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	30.00	761.9	30.43	772.9	47.1	8.4	62	nw.	.....	.....	3	.....	8	wnw	.....	0.028	0.7	.....	H. Leppig, Asst.
Magdeburg	30.20	767.0	30.39	772.0	48.7	9.3	62	w.	.....	.....	4	.....	7	w.	.....	0	0	.....	Dr. Assmann.
Memel	29.61	752.1	29.66	753.3	36.1	2.3	82	w.	.....	.....	6	.....	10 ks	.....	.....	.....	.....	snow squalls	Issermann.
Munich	28.72	729.5	30.62	777.8	41.2	5.1	80	w.	.....	.....	4	.....	8	sw.	.....	0.024	0.6	.....	Central Station.
Neufahrwasser	29.85	758.2	29.87	758.6	39.6	4.2	92	w.	.....	.....	5	.....	10	.....	.....	0.012	0.3	rain & hail	A. Lothes.
Neustadt, Palatinate	30.04	763.1	30.58	776.8	49.1	9.5	70	w.	.....	.....	2	.....	8	nw.	.....	0	0	.....	Dicknether.
Stuttgart	29.63	752.6	30.56	776.1	48.6	9.2	71	w.	.....	.....	1	.....	6	w.	.....	0.008	0.2	raining	Prof. Dr. Schoder.
Wustrow	30.18	766.5	30.21	767.2	39.6	4.2	82	sw.	.....	.....	4	0	5 k	.....	.....	0	0	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.54	750.2	29.94	760.4	43.2	6.2	.....	n.	.....	.....	7.0	.....	10	.....	.....	0.047	1.2	light rain	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.91	759.6	29.96	760.9	73.9	23.3	59	wsw.	18.0	8.0	.....	.....	8	ssw.	.....	0	0	gloomy	
Deesa	29.38	746.3	29.86	758.3	83.1	28.4	25	wnw.	10.0	4.5	.....	.....	4	nw.	.....	0	0	d. clouds	
Bombay	29.82	757.4	29.86	758.4	82.7	28.2	59	nnw.	12.0	5.4	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.98	710.7	29.80	756.8	90.0	32.2	12	w.	22.0	9.8	.....	.....	1	wnw.	.....	0	0	d. clouds	
Belgaum	27.32	694.0	29.82	757.5	83.9	28.8	43	wsw.	8.0	3.6	.....	.....	2	nw.	.....	0	0	d. clouds	
Lahore	29.11	739.3	29.86	758.6	69.7	20.9	28	w.	4.0	1.8	.....	.....	2	.....	.....	0	0	blue sky	
Roorkee	28.89	733.9	29.81	757 2	68.8	20.4	23	w.	6.0	2.7	.....	.....	0	.....	.....	0	0	.....	
Agra	29.30	744.1	29.87	758.6	77.2	25.1	24	sw.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.71	729.3	29.73	755 2	99.9	32.7	16	w.	13.0	5.8	.....	.....	2	w.	.....	0	0	d. clouds	
Jubbulpore	28.51	724.0	29.87	758.8	75.8	24.3	20	ne.	12 0	5.4	.....	.....	7	.....	ne.	0	0	d. clouds	
Lucknow	29.53	750.0	29.92	759.9	66.8	19.3	55	calm	2.0	0.9	.....	.....	5	.....	.....	0	0	d. clouds	
Allahabad	29.59	751.6	29.92	759.9	63.0	17.2	80	calm	0	0	.....	.....	9	sw.	.....	0.02	0.5	d. clouds	
Patna	29.80	757 0	30.00	762.0	59.8	15.4	79	nw.	4.0	1.8	.....	.....	10	nw.	nw.	0	0	overcast	
Hazaribagh	27.86	707.6	29.94	760 7	61.2	16.2	69	nnw.	3.8	1.7	.....	.....	10	.....	nnw.	0.02	0.5	thund'r storm	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.75	755.7	29.83	757.8	82.0	27.8	60	sse.	4.0	1.8	.....	.....	10	.....	se.	0	0	overcast	
Calcutta, Alipore	29.88	758.9	29.90	759.5	67.5	19.7	90	nw.	7.0	3.1	.....	.....	10	.....	.....	0.76	19.3	thud'rstorm	
Dhubri	29.76	755.9	29.88	758.9	70.6	21.4	46	sw.	0.6	0.3	.....	.....	7	.....	w.	0	0	d. clouds	
Chittagong	29.80	757.0	29.90	759.4	75.1	23.9	52	wsw.	3.1	1.4	.....	.....	5	e.	.....	0	0	blue sky	
Sibsagar	29.58	751.3	29.93	760.1	67.0	19.4	73	ne.	2.0	0.9	.....	.....	8	w.	w.	0	0	d. clouds	
Jeypore	28.41	721.7	29.87	758.7	76.7	24.8	20	nw.	7.5	3.4	.....	.....	1	nw.	.....	0	0	blue sky	
Bellary	28.35	720.1	.....	.....	94.0	34.4	20	e.	4	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.62	753.3	.....	.....	92.6	33.7	26	ene.	2	0 9	.....	.....	0	.....	.....	c	0	blue sky	
ITALIAN.																			
Udine	30.00	762.1	30.43	772.8	49.3	9.6	60	sw.	1.3	0.6	.....	.....	7	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.90	759.5	30.43	772.9	49.6	9.8	69	w.	3.1	1.4	.....	.....	5	nnw.	.....	0	0	.....	Prof. Schiapparelli.
Padua	30.30	769.6	30.41	772.5	52.0	11.1	62	ssw.	6.9	3.1	.....	.....	5	sw.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.53	750.0	30.46	773.6	50.4	10.2	56	ene.	1.8	0.8	.....	.....	0	n.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	30.22	767.5	30.41	772.5	57.7	14.3	67	sw.	4.9	2.2	.....	.....	4	s.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.51	724.1	30.48	774.1	50.0	10.0	53	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.35	771.0	30.41	772.3	50.7	10.4	90	sw.	5.6	2.5	.....	.....	2	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	30.14	765.6	30.40	772.2	52.7	11.5	48	nw.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	30.25	768.4	30.34	770.6	56.1	13.4	44	ne.	2.5	1.1	.....	.....	7	.....	.....	0	0	.....	Prof. P. Monte.
Rome	30.11	764.8	30.29	769.4	59.7	15.4	24	nne.	8.7	3.9	.....	.....	0	.....	.....	0	0	.....	Prof. P. Tachini.
Lecce	29.93	760.2	30.19	766.8	47.5	8.6	33	n.	23.7	10.6	.....	.....	1	.....	.....	0.004	0.1	.....	Prof. C. de Giorgi.
Cosenza	29.30	744.1	30.21	767.4	47.5	8.6	73	nnw.	7.4	3.3	.....	.....	5	w.	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.10	764.4	30.29	769.4	59.7	15.4	52	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	30.02	762.6	30.28	769.1	52.0	11.1	51	nne.	15.0	6.7	.....	.....	5	nne.	.....	0.110	2.8	.....	Prof. G. Cacciatore.
Syracuse	30.06	763.4	30.10	764.6	52.2	11.2	47	nne.	40.5	18.1	.....	.....	5	nne.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.75	755.6	30.29	769.3	52.3	11.3	43	ne.	14.3	6.4	.....	.....	3	ne.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.44	570.1	.....	.....	25.3	— 3.7	75	ne.	.....	.....	2	.....	2	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.46	570.6	.....	.....	33.6	0.9	43	ne.	.....	.....	2	.....	1	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.17	766.4	30.20	767.2	24.7	— 4.1	82	calm	.....	.....	0	0	0	.....	.....	0.028	0.7	clear	H. Hattori.
Awomori	30.15	765.8	30.19	766.8	26.7	— 2.9	65	sw.	3.0	1.3	.....	0	1 ks	.....	.....	0.039	1.0	clear	K. Ogawa.
Hakodate	30.15	765.9	30.17	766.2	27.4	— 2.6	96	ne.	1.8	0.8	.....	1	0	.....	.....	0	0	clear	
Hamamatsu	30.10	764.5	30.13	765.2	43.1	6.2	76	nw.	.....	.....	2	3 cs	2 s	sw.	sw.	0	0	fair	
Kagoshima	30.22	767.7	30.24	768.0	47.9	8.8	69	nnw.	.....	.....	2	.....	10 s	.....	.....	0	0	overcast	G. Miyanohasa.
Kioto	30.00	761.9	30.18	766.5	38.0	3.3	85	n.	1.7	0.7	.....	.....	10s;ck	.....	.....	0	0	cloudy	M. Tojima.
Kochi	30.14	765.5	30.17	766.3	49.1	9.5	62	e.	6.1	2.7	.....	0	3	.....	.....	0	0	fair	K. Kusunose.
Miasaka	30.20	767.1	30.23	767.8	49.8	9.9	74	calm	.....	.....	0	.....	10 n;s	.....	w.	0.004	0.1	light rain	K. Masusaki.
Nagasaki, I. M. Obs'y	30.06	763.5	30.27	768.9	44.5	6.9	71	nw.	0.9	0.4	.....	0	3 s	.....	.....	0	0	clear	S. Takehayashi.
Niigata	30.18	766.6	30.21	767.3	35.7	2.1	93	ne.	0.8	0.4	.....	.....	10ck;s	.....	n.	0.055	1.4	cloudy	M. Morita.
Nobiru	30.17	766.4	30.19	766.8	33.4	0.8	91	ne.	1.5	0.7	.....	5 cs	3 s	s.	.....	0	0	fair	H. Midzushina.
Numazu	30.12	765.2	30.16	766.0	44.4	6.9	77	calm	.....	.....	0	.....	10 ks	.....	s.	0	0	fair	R. Kaneda.
Osaka	30.17	766.3	30.18	766.7	42.5	5.8	80	ne.	5.4	2.4	.....	0	2 s	.....	.....	0	0	clear	H. Omura.
Sakai	30.17	766.4	30.18	766.7	40.0	4.4	96	s.	.....	.....	2	.....	10 n	.....	s.	0.232	5.9	raining	K. Yamawchi.
Sapporo	.....	.....	.....	.....	23.2	— 4.9	94	calm	0	0	.....	.....	3	.....	.....	0	0	clear	
Tokei Obs'y, Yeddo	30.09	764.3	30.17	766.3	41.6	5.3	85	ene.	2.0	0.9	.....	7 cs	0	.....	.....	0	0	fair	The Staff.
Waknyama	30.13	765.2	30.18	766.6	44.1	6.7	78	n.	3.0	1.3	.....	7 ck	0	n.	.....	0	0	fair	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.78	756.4	29.97	761.2	81.0	27.2	59	ese.	18.5	8.3	.....	1 ck	3 k	.....	se.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	54	12.2	90	nw.	7.2	3.2	.....	.....	.....	.....	.....	.....	.....	clear	H. Diaz Pena.
Guanajuato	23.70	601.9	29.92	759.9	56.3	13.5	86	ene.	inap.	inap.	.....	.....	10 kn	.....	s.	0	0	covered	Prof. Vicente Ferrudez.
Leon	24.32	617.7	30.08	764.0	51.3	10.7	88	wsw.	.....	.....	1	5 c	4 ks	.....	.....	0	0	very cloudy	Prof. M. Leal.
Mazatlan	29.76	755.9	30.03	762.6	58.5	14.7	91	wnw.	0.9	0.4	.....	2 cs	0	sw.	.....	0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.13	587.4	30.25	768.4	50.5	10.3	78	calm	0	0	.....	7 c	3 k	sw.	.....	0.055	1.4	covered	The Staff.
Morelia	24.29	617.0	30.15	765.8	52.5	11.4	71	se.	.....	.....	3	3 c	3 k	e.	e.	1.083	27.5	½ cloudy	M. Tena, M. D.
Pabellon	23.97	608.9	30.08	763.9	50.7	10.4	54	calm	0	0	.....	7 c	2 s	sw.	sw.	0	0	cloudy	
Puebla, Catholic Institute	23.43	594.1	30.17	766.3	51.0	10.9	63	nne.	0.9	0.4	.....	0	0	.....	.....	0.158	4.0	clear	Prof. P. Spina.
Zacatecas	22.58	573.5	30.30	769.7	48.6	9.2	49	ne.	5.8	2.6	.....	.....	10 n	.....	ne.	0	0	covered	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.68	779.2	30.68	779.2	48.0	8.9	.....	w.	.....	.....	2	.....	.....	.....	.....	0.008	0.2	.....	
Groningen	30.49	774.5	30.55	775.9	46.4	8.0	.....	nw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.65	778.6	30.65	778.6	49.6	9.8	82	w.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Utrecht	30.59	777.0	30.04	778.2	50.9	10.5	70	wnw.	.....	.....	3	.....	2	.....	.....	c	0	lightly cld'y	H. van der Brink.
Sub-series.																			
Batavia, Java	29.88	758.9	.....	.....	79.2	26.2	79	nnw.	0	0	.....	.....	3	.....	.....	0	0	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.08	764.1	30.15	765.7	37.4	3.0	57	nnw.	34	15	.....	.....	8	.....	.....	0.047	1.2	snowing	
Brono	29.54	750.3	29.58	751.3	34.2	1.2	91	nnw.	.....	.....	7	.....	10	.....	.....	0.189	4.8	snowing	
Christiania	29.63	752.7	29.78	756.5	40.6	4.8	29	wnw.	25	11	.....	.....	0	.....	.....	0	0	.....	
Gjæsvær	29.14	740.2	29.17	740.8	29.5	— 1.4	.....	n.	.....	.....	6	.....	7	.....	.....	.....	.....	.....	
Lodingen	29.27	743.5	29.32	744.7	31.1	— 0.5	62	nnw.	.....	.....	5	.....	1	.....	.....	0.063	1.6	.....	
PORTUGUESE.																			
Angra, Azores	29.88	759.0	30.04	763.0	61.5	16.4	94	s.	13.6	6.1	.....	.....	10	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.42	747.3	30.43	772.8	65.8	18.8	48	ene.	1 8	0.8	.....	.....	0	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.29	769.4	30.38	771.6	68.5	20.3	32	ese.	2.5	1.1	.....	.....	7	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.11	764.7	30.47	774.0	61.0	16.1	54	ne.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.07	763.8	30.14	765.6	60.1	15.6	92	s.	22.4	10.0	.....	.....	10	.....	.....	0.472	12.0	raining	
Saint Paul de Loando	29.62	752.3	29.82	757.3	84.2	29.0	92	wnw.	1.3	0.6	.....	.....	7	sse.	.....	0	0	.....	
Serra da Estrella	25.71	652.9	30.45	773.3	54.5	12.5	25	se.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.16	740.6	30.38	771.7	— 4.5	—20.3	80	se.	4	2	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.14	740.2	29.10	740.7	22.6	— 5.2	90	sse.	13	6	.....	.....	10	.....	.....	0.047	1.2	snowing	Capt. Sselliwerstow.
Ashuruda	29.88	759.0	29.79	756.6	48.9	9.4	82	wnw.	9	4	.....	.....	9 kn	.....	.....	0	0	.....	
Astrakhan	30.10	764.4	30.01	762.3	26.6	— 3.0	66	e.	4	2	.....	.....	10	.....	.....	blank	blank	heavy cld's.	Capt. Wisganow.
Baku	.....	.....	.....	.....	41.5	5.3	74	n.	13	6	.....	0	8 ks	.....	.....	blank	blank	.....	
Barnaul	30.03	762.8	30.66	777.1	2.5	—16.4	75	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Bieloserek	28.76	730.4	29.24	742 6	26.4	— 3.1	87	se.	16	7	.....	.....	10 n	.....	.....	0.020	0.5	snowing	
Dorpat	29.66	738.0	29.30	744 3	35.0	2.0	73	wnw.	11	5	.....	c	2 ks	.....	.....	0.079	2.0	.....	Observatory.
Ekaterinburg	29.04	737.7	30.00	763.4	24.4	— 4.2	50	sw.	11	5	.....	8 cs	0	.....	.....	0	0	light clouds	Meteorological Obs'y.
Elissawetgrad	29.58	751.4	30.05	763 3	31.6	— 0.2	78	wsw.	4	2	.....	2 cs	0	.....	.....	blank	blank	.....	
Irkutsk	28.71	729.3	30.52	775.1	11.1	—11.6	78	calm	.....	.....	0	.....	1	.....	.....	0.020	0.5	.....	
Kasalinsk	28.72	754.8	29.89	759.3	18.7	— 7.4	69	e.	9	4	.....	0	0	.....	.....	.....	.....	.....	
Kasan	29.67	753.7	29.97	761.2	12.0	—11.1	80	sse.	16	7	.....	.....	10	.....	.....	0.004	0.1	.....	Observatory.
Kem	28.94	735.0	28.99	736.3	28.0	— 2.2	87	s.	13	6	.....	.....	10 ks	.....	.....	0.028	0.7	heavy cl'ds.	
Kertch	29.93	760.1	29.95	760.6	30.6	— 0.8	94	nw.	4	2	.....	.....	10 n	.....	.....	0	0	.....	Lagorio & Sastyrez.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Kieff	29.20	741.6	29.86	758.4	32.0	0.0	79	sw.	16	7			10ks;n			0.012	0.3	light sleet...	Observatory.
Koslov	29.35	745.6	29.91	759.8	27.0	— 2.8	91	ssw.	13	6			10 s					light snow...	
Liban	29.54	750.4	29.57	751.0	35.8	2.1	80	w.	11	5			10			0.059	1.5		**E. Quass.**
Lugan	29.81	757.2	30.01	762.2	27.1	— 2.7	77	e.	4	2			10			0.020	0.5	light clouds.	Meteorological Obs'y.
Moscow	29.08	738.6	29.58	751.2	29.5	— 1.4	71	ssw.	13	6			10 n			0.012	0.3		**Meteorological Obs'y**
Nikolaiev	30.06	763.5	30.13	765.4	30.6	— 0.8	77	n.	9	4		0	0						Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.97	761.1	30.05	763.3	2.6	—19.2	70	calm	0	0			0			0	0		**Iwanow.**
Pekin, China	30.30	769.6	30.45	773.4	31.6	— 0.2	61	sw.	7	3		0	0			0	0		**Physical Observatory.**
Petro-Alexandrovsk	29.73	755.2	30.10	764.4	42.1	5.6	54	ne.	3.4	1.5		3 cs	0			0	0		
Petrozavodsk	28.80	731.6	29.00	736.6	28.8	— 1.8	84	s.	11	5			10			0.276	7.0		**Dr. Bergmann.**
Pinsk	29.28	743.8	29.80	756.8	35.6	2.0	84	w.	18	8			10 s			0.012	0.3	snowing	
Poti	29.88	758.9	29.90	759.4	45.7	7.6	89	sw.	7	3			10 n					raining	
St. Petersburg	29.06	738.0	30.07	738.4	32.9	0.5	87	wnw.	16	7			10			0.079	2.0		Central Physical Obs'y.
Samarkand	27.59	700.7	30.12	765.0	41.5	5.3	50	calm	0	0		0	0						
Semipalatinsk	29.87	758.7	30.61	777.4	— 1.5	—18.6	77	calm	0	0			0			0	0		Major Lasarew.
Sevastopol	29.83	757.7	30.07	763.7	31.6	— 0.2	89	ne.	27	12			9 n			0	0		
Staroi Bykhov	29.15	740.3	29.62	752.3	34.7	1.5	87	s.	18	8			10					light sleet...	
Tashkend	28.47	723.1	30.21	767.4	34.9	1.6	47	n.	9	4		0	0			0	0		**Terch, A. M.**
Tiflis	28.38	720 8	29.79	756.6	53.8	12.1	38	n.	11	5		0	0			0	0		Physical Observatory.
Vernoe	27.55	699.7	30.25	768.3	16.3	— 8.7	77	w.	4	2		0	0						
Viatka	29.17	741.0	29.84	758.0	18.9	— 7.3		s.	4	2			9			0	0		
Vladivostock	30.34	770.6	30.41	772.3	— 0.8	—18.2	37	nw.	2	1			0			0	0		
Warsaw	29.52	749 7	29.95	760.8	39.2	4.0	70	w.	27	12			10			0.059	1.5	heavy clouds	Astronomical Obs'y.
Wilna	29.19	741.4	29.62	752.3	36.1	2.3	79	w.	11	5			10			0	0	heavy cl'ds.	**Berg, Assistant.**
Yeniseisk	30.18	766.6	30.50	774 7	9.9	—12.3	75	w.	2	1			4			0	0		**M. O. Marks.**
Scottish.																			
Monach Lt			30.53	775.4	47	8.3	92	sw.			4		10			0	0	hazy	J. Youngclauss.
North Unst			30.31	769.9				nw.			6	3	1	w.					**Robt. Burnet.**
Spanish.																			
Barcelona, Met. Obs'y	30.32	770.1	30.43	772.8	61.2	16.2	59	se.	0.9	0.4		0	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.53	775.5	30.59	777.0	59.2	15.1	63	w.	1.8	0.8		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.50	698.4	30.47	773.9	60.8	16.0	29	ne.	4.9	2.2		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.21	716.6	30.46	773.7	60.1	15.6	46	ne.	3.8	1.7		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.24	768.2	30.41	772.5	68.2	20.1	58	e.	0.7	0.3		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.69	754.2	30.57	776.5	45.5	7.5	82	n.	2.6	1.2		1 s	0			0	0	clear	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.53	750.1	30.42	772.7	67.1	19.5	55	calm	0	0			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.96	761.0	30.02	762.5	78.1	25.6	65	ese.	9.9	4.4			k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.31	770.0	30.41	772.5	70.2	21.2	32	e.	15.9	7.1		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.04	763.0	30.13	765.3	73.8	23.2	89	se.	9.4	4.2		5 c	3 kn	w.	se.	0.335	8.5	d. clouds	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	29.02	737.1	29.06	738.1	23.0	— 5.0	81	nw.			4		5			0.130	3.3		
Umea	29.08	738.5	29.13	739.8	36.3	2.4	100	nw.			2		0			0	0		
Hernosand	29.16	740.6	29.21	741.9	38.8	3.8	48	wnw.			7		5			0.016	0.4		
Stockholm	29.27	743.4	29.45	747.9	39.0	3.9	38	nw.			7		3			0	0		
Wisby	29.47	748.6	29.53	750.1	37.4	3.0	73	wnw.			6		7			0.012	0.3		
Sub-series.																			
Upsala	29.32	744.8	29.41	747.0	37.4	3.0	51	wnw.	18.6	8.3			1	nw.		0.016	0.4		S. G. Fineman.
Swiss.																			
Geneva	30.13	739.8	30.56	776.3	49.1	9.5	45	nne.			2		0			0	0	clear	The Observatory.
Turkish.																			
Constantinople			30.12	765.1	38.3	3.5	66	n.	27	12.0			8		n.	0	0		The Observatory.
Valona			30.19	766.9	52.3	11.3		n.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.75	755.7	61.3	16.3	66	sw.			1	10 ck	0	sw.		1.285	32.6		Prof. C. V. A. van Dyck.
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	29.91	759.7	30.00	762.0	36.3	2.4	82	sw.	14	6.3			10 n			0.12	3.0	sleeting	J. C. Barnes.
Alpena, Michigan	29.00	736.6	29.72	754.9	21	— 6.1	84	w.	14	6.3			10 n	w.		0.40	10.2	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.17	639 3	30.27	768.8	31	— 0.6	81	calm	0	0			10 s			0	0	cloudy	W. O. Barnes.
Assiniaboine, Ft., Montana	27.48	698.0	30.52	775.2	12	—11.1	64	sw.	12	5.4		0	0			0	0	clear	B. C. Lenoir.
Atlanta, Georgia	28.96	735.6	30.18	766.6	39.5	4.2	100	calm	0	0			fg.			0.53	13.5	dense fog	H. C. Smyth.
Atlantic City, New Jersey	29.97	761.2	29.98	761.5	46	7.8	100	s.	24	10.7			10 n		sw.	0.63	16.0	light rain	Jas. M. Watson.
Augusta, Georgia	29.97	761.2	30.17	766.3	43.4	6.1	95	calm	0	0			10 s		w.	0.79	20.1	cloudy	John Healy.
Baltimore, Maryland	29.96	761.0	30.01	762.2	43	6.1	93	nw.	2	0.9			10 s		sw.	0.81	20.6	cloudy	Geo. W Felger.
Barnegat, New Jersey	29.96	761.0	29.98	761.5	46.0	7.8	96	sw.	30	13.9			10 n		sw.	0.91	23.1	heavy rain	G. A. Hill.
Behring Id., Behring Sea	30.41	772.4	30.43	772.9	32.0	0.0		se.	4	1.8		0	6 n		se.	0.02	0.5	fair	**Dr. Leonard Steinegar.**
Bennett, Fort, Dakota	28.63	727.2	30.36	771.1	17	— 8.3	83	calm	0	0		2 c	5 s	nw.		0	0	fair	A. Pritchard.
Benton, Fort, Montana	27 55	699.8	30.55	776.0	31	— 0.6	62	sw.	2	0.9		0	0			0	0	clear	S. Wheaton.
Billings, Montana	27.08	687.8			20	— 6.7	73	w.	2	0.9		0	0			0	0	clear	T. Gibson.
Bismarck, Dakota	28.34	719.8	30.32	770.1	3	—16.1	76	w.	2	0.9		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.07	763.8	30.10	764.5	40	4.4	89	se.	26	11.6			10 n		se.	0.18	4.6	light rain	J. T. Elker.
Boise City, Idaho	27.65	702.3	30.61	777.5	26	— 3.3	84	n.	1	0.4		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.00	762.0	30.16	766.1	35.0	1.7	88	se.	10	4.5			10 n			0.04	1.0	light rain	O. B. Cole.
Brownsville, Texas	30.13	765 3	30.18	766.6	60.3	15.7	85	n.	17	7.5			10 s		n.	0	0	cloudy	M. McCarty.
Buffalo, New York	28.89	733.8	29.69	754.1	42	5.6	92	sw.	25	11.2			10 n		sw.	0.39	9.9	light rain	W. Finn.
Buford, Fort, Dakota	28.23	717.0	30.41	772.4	13	—10.6	66	w.	14	6.3		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.57	751.1	29.88	758.9	31.6	— 0.2	88	s.	25	11.2			10 n		s.	0.02	0.5	light snow	D. N. Farnell.
Cairo, Illinois	29.94	760.5	30.36	771.1	34.8	1.6	61	n.	14	6.3		0	0			0.02	0.5	clear	W. H. Ray.
Cape Henry, Virginia	29.99	761.7	30.01	762.2	53	11.7	100	w.	4	1.8			10s;fg		w.	0.57	14.5	cloudy	A. K. Alderson.
Cape May, New Jersey	29.93	760.2	29.96	761.0	48.0	8.9	81	s.	23	10.3		0	7 s		sw.	1.02	25.9	fair	W. E. Smith.
Cape Mendocino, California	29.46	748.3	30.16	766.1	38	3.3	100	se.	8	3.6			fg.		se.	0.01	0.3	dense fog	J. J. McLean.
Cedar Keys, Florida	30.12	765.0	30.14	765.5	69	20.6	90	s.	6	2.7			9 n			inap.	inap.	light rain	F. W. Mixer.
Champaign, Illinois	29.34	745.2	30.21	767.3	22.5	— 5.3	66	nw.	21	9.4			9ks	nw.		0.18	4.6	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.07	763.8	30.13	765.3	53	11.7	100	nw.	4	1.8			fg.			0.36	9.1	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.22	742.2	30.11	764.8	36.0	2.2	94	n.	2	0.9			10s;fg		ne.	1.37	34.8	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.29	744.0	30.15	765.8	47.5	8.6	89	sw.	4	1.8		0	9 ks		w.	0.49	12.4	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.20	614.7	30.45	773.4	23.1	— 4.9	56	n.	10	4.5		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.32	744.7	30.07	763.8	26.2	— 3.2	82	w.	13	5.8			10 s		w.	0.87	22.1	cloudy	J. Mitchell.
Chincoteague, Virginia	29.99	761.7	30.01	762.2	51	10.6	100	sw.	15	6.7			10 n		w.	0.85	21.6	light rain	C. F. Dickens.
Cincinnati, Ohio	29.43	747.5	30.12	765.0	38	3.3	89	w.	12	5.4			10 n		w.	1.09	27.7	light rain	R. B. Watkins.
Cleveland, Ohio	29.11	739.4	29.99	759.4	35	1.7	89	w.	19	8.5			10 n		w.	0.23	5.8	light rain	J. B. Newlin.
Coleman City, Texas	28.67	728.2	30.55	776.0	34	1.1	88	nw.	20	8.9		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.10	739.1	30.00	762.0	36	2.2	79	w.	18	8.0			10 s		sw.	0.65	16.5	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.53	724.6	30.55	776.0	34.0	1.1	81	n.	7	3.1		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.51	749.5	30.21	767.3	18	— 7.8	67	nw.	12	5.4		2 ck	0	nw.		0 36	9.1	clear	R. R. Martin.
Davis, Fort, Texas	25.49	647.4	30.45	773.4	29	— 1.7	80	n.	12	5.4			10 s		n.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.65	727.7	30.46	773.7	26	— 3.3	88	n.	1	0.4		0	0			0	0	clear	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.53	648.5	30.45	773.4	24	— 4.4	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Willson.
Delaware Breakwater, Del.	29.96	761.0	29.98	761.5	50	10.0	100	s.	27	12.1	.....	.....	10 n	.....	s.	1.10	27.9	light rain	T. S. Townsend.
Denison, Texas	29.69	754.1	30.53	775.4	32.0	0.0	78	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Denver, Colorado	24.96	634.0	30.48	774.2	26.0	— 3.3	70	s.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	F. M. Neal.
Des Moines, Iowa	29.39	746.5	30.36	771.1	13	—10.6	61	nw.	6	2.7	.....	0	0	.....	.....	0.60	15.2	clear	F. W. Conrad.
Detroit, Michigan	29.10	739.1	29.85	758.2	32.0	0.0	78	w.	25	11.2	.....	.....	10 8	.....	w.	0.30	7.6	cloudy	E. R. Brace.
Dodge City, Kansas	27.80	706.1	30.54	775.7	21	— 6.1	73	w.	4	1.8	.....	0	0	.....	.....	0.01	0.3	clear	V. P. Temple.
Dubuque, Iowa	29.38	746.2	30.14	765.5	13.2	—10.4	61	w.	6	2.7	.....	0	0	.....	.....	0.51	13.0	clear	J. Harvey Smith.
Duluth, Minnesota	29.28	743.7	30.09	764.3	15	— 9.4	83	w.	4	1.8	.....	0	9 8	.....	w.	0.10	2.5	cloudy	N. B. Conger.
Eagle Pass, Texas	29.66	753.4	30.50	774.7	47.1	8.4	63	n.	17	7.6	.....	.....	10 8	.....	n.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.61	650.5	30.51	774.9	— 4	—20.0	71	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	30.20	768.6	30.33	770.4	28.0	— 2.2	77	s.	16	7.2	.....	.....	10 8	.....	s.	0	0	threatening	D. C. Murphy.
Elliott, Fort, Texas	27.64	702.0	30.54	775.7	19	— 7.2	58	nw.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	W. J. Cundall.
El Paso, Texas	26.56	674.6	30.44	773.2	40.0	4.4	50	nw.	12	5.4	.....	.....	10 8	.....	nw.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.05	737.9	29.82	757.4	36	2.2	89	sw.	21	9.4	.....	.....	10 n	.....	sw.	0.32	8.1	light rain	Peter Wood.
Escanaba, Michigan	29.14	740.1	29.86	758.2	22.5	— 5.3	94	w.	8	3.6	.....	.....	10 n	.....	w.	0.37	9.4	light snow	George Heathcote.
Fredericksburg, Texas	28.65	727.7	30.45	773.4	39	3.9	73	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	Frank Halwegler.
Galveston, Texas	30.24	768.1	30.29	769.4	54	12.2	80	n.	36	16.1	.....	0	8 ks	.....	n.	0.02	0.5	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.20	741.7	29.91	759.7	29.0	— 1.7	77	w.	27	12.1	.....	.....	10 8	.....	w.	0.71	18.0	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.41	645.4	30.27	768.8	38	3.3	66	nw.	12	5.4	.....	.....	10 8	.....	.....	0	0	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.03	762.7	30.05	763.3	59	15.0	100	sw.	32	14.3	.....	9 k	fg.	sw.	.....	0.98	24.9	cloudy	R. M. Crawford.
Helena, Montana	26.10	662.9	30.50	774.7	27	— 2.8	88	sw.	3	1.3	.....	.....	10 8	.....	calm	0	0	cloudy	N. C. Smith.
Henrietta, Texas	29.50	749.3	30.55	776.0	30	— 1.1	77	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Huron, Dakota	28.81	731.8	30.33	770.4	2	—16.7	59	se.	4	1.8	.....	.....	10 8	.....	.....	inap.	inap.	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.29	744.0	30.14	765.5	32.5	0.3	83	nw.	12	5.4	.....	.....	10 8	.....	w.	0.66	16.8	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.27	768.8	30.30	769.6	51.0	10.6	80	n.	36	16.1	.....	4 cs	2 k	w.	n.	0	0	fair	I. A. Reed.
Jacksboro, Texas	29.33	745.0	30.57	776.5	32	0.0	68	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Jacksonville, Florida	30.10	764.5	30.15	765.8	66	18.9	90	s.	1	0.4	.....	4 cs	0	w.	.....	0.01	0.3	fair	J. W. Smith.
Keogh, Fort, Montana	27.77	705.3	30.45	773.4	18	— 7.8	87	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Keokuk, Iowa	29.58	751.3	30.28	769.1	22.0	— 5.6	73	w.	14	6.3	.....	4 k	0	nw.	.....	0.61	15.5	fair	F. Z. Gosewisch.
Key West, Florida	30.12	765.0	30.14	765.5	74.0	23.3	82	se.	7	3.1	.....	.....	10 8	.....	.....	0.18	4.6	cloudy	Lee M. Melbourne
Kittyhawk, North Carolina	30.02	762.5	30.04	763.0	57.5	14.2	96	w.	24	10.7	.....	.....	10 n	.....	.....	0.87	22.1	heavy rain	H. Mc P. Baldwin
Knoxville, Tennessee	29.05	737.9	30.13	765.3	46.3	7.9	100	sw.	10	4.5	.....	.....	10 n	.....	.....	0.42	10.7	light rain	J. A. Cody.
La Crosse, Wisconsin	29.31	744.5	30.15	765.8	11	—11.7	80	w.	6	2.7	.....	0	4 8	.....	.....	0.43	10.9	fair	S. C. Emery.
Leavenworth, Kansas	29.48	748.8	30.43	772.9	29	— 1.7	77	nw.	4	1.8	.....	0	0	.....	.....	0.32	8.1	clear	A. W. Browne.
Lewiston, Idaho	29.66	753.4	30.53	775.4	31.0	— 0.6	68	e.	7	3.1	.....	0	0	.....	.....	0	0	clear	W. Bell.
Little Rock, Arkansas	30.11	764.8	30.44	773.2	40	4.4	61	nw.	12	5.4	.....	0	2 ks	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.75	755.6	30.15	765.8	50	10.0	86	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.58	751.3	30.16	766.1	37	2.8	72	w.	23	10.3	.....	.....	10 8	.....	w.	0.79	20.1	cloudy	L. M Dey.
Lynchburg, Virginia	29.29	744.0	30.01	762.2	36	2.2	69	sw.	2	0.9	.....	0	5 ks	.....	sw.	0.60	15.2	fair	Louis Duane.
Mackinaw City, Michigan	29.04	737.6	29.74	755.4	22.0	— 5.6	80	w.	19	8.5	.....	.....	10 n	.....	.....	0.37	9.4	light snow	F. R. Day.
Macon, Fort, North Carolina	30.04	763.0	30.05	763.3	59.0	15.0	100	sw.	14	6.3	.....	.....	10 8	.....	sw.	0.89	22.6	cloudy	William Daly.
Madison, Wisconsin	28.99	736.3	30.08	764.0	15	— 9.4	67	w	16	7.2	.....	0	0	.....	.....	0.13	3.3	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.79	655.1	30.33	770.4	28	— 2.2	47	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	F. Burke.
McKavett, Fort, Texas	28.18	715.8	30.56	776.2	36	2.2	82	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.05	737.9	29.83	757.7	21	— 6.1	84	n.	18	8.0	.....	.....	10 n	.....	.....	0.43	10.9	heavy snow	J. Gilligan.
Memphis, Tennessee	30.02	762.5	30.37	771.4	39	3.9	73	w.	20	8.9	.....	0	0	.....	.....	0.01	0.3	clear	D. T. Flannery
Milwaukee, Wisconsin	29.20	741.7	30.00	762.0	24	— 4.4	61	nw.	19	8.5	.....	0	7 ks	.....	nw.	0.07	1.8	fair	W. Line.
Missoula, Fort, Montana	27.15	689.6	30.58	776.7	15	— 9.4	51	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Young.
Mobile, Alabama	30.14	765.5	30.18	766.6	59	15.0	87	n.	5	2.2	.....	10 cs	0	sw.	.....	1.16	29.5	cloudy	C. A. Read.
Montgomery, Alabama	29.88	758.9	30.12	765.0	61	16.1	93	nw.	6	2.7	.....	0	9 8	.....	nw.	0.62	15.7	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.18	741.2	30.28	769.1	— 6	—21.1	100	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.91	734.3	29.98	761.5	53.5	11.9	70	sw.	13	5.8	.....	.....	10 n	.....	w.	0.54	13.7	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.53	597.7	30.15	765.8	10.0	— 8.9	100	sw.	84	37.6	.....	.....	10 fg	.....	sw.	0.07	1.8	light snow	S. W. Beall.
Nashville, Tennessee	29.63	752.6	30.24	768.1	45.0	7.2	83	nw.	16	7.2	.....	.....	10 ks	.....	nw.	0.54	13.7	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.94	760.5	30.06	763.5	37	2.8	100	se.	9	4.0	.....	.....	10 fg	.....	e.	0.75	19.0	heavy rain	J. H. Sherman.
New London, Connecticut	30.02	762.5	30.07	763.8	39	3.9	100	se.	18	8.0	.....	.....	10 n	.....	se.	0.82	20.8	heavy rain	J. G. Lynch.
New Orleans, Louisiana	30.13	765.3	30.19	766.8	61.5	16.4	72	nw.	9	4.0	.....	.....	10 8	.....	.....	0.64	16.3	cloudy	L. Dunne.
Newport, Rhode Island	30.09	764.3	30.14	765.5	37.0	2.8	98	se.	16	7.2	.....	.....	10 n	.....	se.	0.26	6.6	heavy rain	W. McGillivray.
New York, New York	29.84	757.9	30.04	763.0	43	6.1	100	e.	5	2.2	.....	.....	10 fg	.....	.....	0.88	22.4	light rain	J. B. Merrill.
Norfolk, Virginia	30.00	762.0	30.02	762.5	57	13.9	93	calm	0	0	.....	.....	10 s fg	.....	sw.	0.91	23.1	cloudy	Wm. Davis.
North Platte, Nebraska	27.35	694.7	30.45	773.4	18.6	— 7.4	72	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.29	769.4	30.33	770.4	29.0	— 1.7	100	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	29.15	740.4	30.42	772.7	24.1	— 4.4	61	w.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	A. Pollak.
Ooglaamie, Alaska	30.48	774.2	30.50	774.7	—26.5	—32.5	.....	wsw.	8	3.6	.....	0	0	.....	.....	0	0	clear	P. H. Ray.
Oswego, New York	29.35	745.5	29.70	754.4	43.0	6.1	83	s.	14	6.3	.....	.....	10 8	.....	w.	0.26	6.6	cloudy	J. G. Linsley.
Palestine, Texas	29.92	760.0	30.50	774.7	39.5	4.2	78	n.	8	3.6	.....	1 cs	0	.....	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.13	765.3	30.16	766.1	63.2	17.3	90	nw.	8	3.6	.....	.....	10 8	.....	n.	1.10	27.9	cloudy	M. McGauran.
Philadelphia, Pa.	29.86	758.4	29.97	761.2	50	10.0	90	s.	3	1.3	.....	.....	10 n	.....	s.	0.79	20.1	light rain	E. M. Mattison.
Pike's Peak, Colorado	17.80	452.1	30.52	775.2	5	—15.0	54	ne	.....	.....	4	0	0	.....	.....	inap.	inap.	clear	H. Hall.
Pioche, Nevada	24.29	617.0	30.45	773.4	25.5	— 3.6	63	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	28.99	736.3	29.85	758.2	51.5	10.8	90	w.	10	4.5	.....	.....	10 8	.....	w	0.36	9.1	cloudy	W. A. Reid.
Poplar River, Montana	28.13	714.5	30.48	774.2	.....	.....	.....	nw.	.....	.....	4	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.17	766.3	30.18	766.6	59.0	15.0	100	n.	10	4.5	.....	.....	10 s fg	.....	w.	0.43	10.9	cloudy	H. B. Boyer.
Port Huron, Michigan	29.08	738.6	29.82	757.4	29.6	— 1.3	90	w.	25	11.2	.....	.....	10 n	.....	w.	0.37	9.4	light snow	W. O. Bailey.
Portland, Maine	30.12	765.0	30.18	766.6	38.0	3.3	82	s.	12	5.4	.....	.....	10 n	.....	.....	0.29	7.4	heavy snow	W. W. Eichelberger
Portland, Oregon	30.21	767.3	30.28	769.1	38.2	3.4	82	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	59	15.0	100	sw.	12	5.4	.....	.....	10 fg	.....	sw.	0.95	24.1	light rain	F. S. Coburn.
Prescott, Arizona	24.94	633.5	30.30	769.6	26.0	— 3.3	80	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass.	30.13	765 3	30.16	766.1	35	1.7	89	se.	28	12.5	.....	.....	10 n	.....	se.	0.23	5.8	heavy rain	T. T. Jenkins.
Punta Rassa, Florida	30.14	765.5	30.15	765.8	71	21.7	87	se.	11	4.9	.....	9 c	0	w.	.....	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.88	758.9	30.25	768.3	40	4.4	65	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	28.98	736.1	29.69	754.1	42	5.6	73	s.	18	8.0	.....	.....	10 8	.....	.....	0.08	2.0	cloudy	E. W. McGann
Roseburg, Oregon	29.70	754.4	30.27	768.8	29	— 1.7	92	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	30.13	765.3	30.21	767.3	47.4	8.6	93	n.	4	1.8	.....	.....	fg.	.....	.....	0	0	light fog	J. A. Barwick
St. Louis, Missouri	29.70	754.4	30.34	770.6	26.2	— 3.2	95	w.	20	8.9	.....	0	0	.....	.....	0.04	1.0	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.26	768.6	30.30	769.6	—10	—23.3	100	n.	24	10.7	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt
St. Paul, Minnesota	29.24	742.7	30.18	766.6	6.5	14.2	76	sw.	4	1.8	.....	3 cs	0	.....	.....	0.20	5.1	clear	P. F. Lyons.
St. Vincent, Minnesota	29.31	744.5	30.28	769.1	— 6	—21.1	82	nw.	4	1.8	.....	.....	8 k	.....	nw.	0	0	cloudy	C. B. Dilley.
Salt Lake City, Utah	26.03	661.2	30.59	777.0	25	— 3.9	64	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.08	753.9	30.40	772.1	44.0	6.7	68	n.	14	6.3	.....	0	0	.....	.....	0	0	clear	T. J. Kenan.
San Diego, California	30.04	763.0	30.11	764.8	47.8	8.8	89	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.18	741.2	29.90	759.4	35	1.7	89	w.	16	7.2	.....	.....	10 8	.....	w.	0.35	8.9	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.98	761.5	30.01	762.2	43.0	6.1	93	w.	2	0.9	.....	.....	10 n	.....	.....	0.77	19.6	light rain	B. A. Blundon.
San Francisco, California	30.12	765.0	30.20	767.1	48.5	9.2	93	n.	2	0.9	.....	3 cs	fg.	nw.	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.42	594.9	30.50	774.7	22	— 5.6	53	ne.	14	6.3	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.05	763.3	30.14	765.5	58.5	14.7	85	nw.	1	0.4	.....	.....	fg.	.....	.....	0.20	5.1	dense fog	H. W. Ford.
Shaw, Fort, Montana	26.65	676.9	30.50	774.7	23	— 5.0	73	w.	4	1.8	.....	4 cs	0	.....	.....	0	0	fair	A. L. Mathews.
Shreveport, Louisiana	30.18	766.6	30.43	772.9	42	5.6	65	n.	9	4.0	.....	0	1 s	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	29.28	743.7	30.59	777.0	30	— 1.1	74	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.45	621.0	30.30	769.6	36.0	2.2	79	calm	0	0	.....	.....	10 8	.....	.....	0	0	cloudy	N. D. Lane.
Sitka, Alaska	29.08	753.9	29.74	755.4	44.7	7.1	76	se.	12	5.4	.....	.....	10 n	.....	se.	1.55	39.4	heavy rain	F. W. Fickett.
Smith, Fort, Arkansas	30.01	762 2	30.51	774.9	31.0	— 0.6	68	nw.	6	2.7	.....	0	0	.....	.....	0.04	1.0	clear	J. B. Campbell.
Smithville, North Carolina	30.05	763.3	30.09	764.3	57	13.9	100	w.	8	3.6	.....	.....	fg.	.....	.....	1.58	40.1	dense fog	O. Parker.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.41	721.6	30.54	775.7	22.2	— 5.4	87	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	H. Clifford.
Springfield, Illinois	29.54	750.3	30.27	768.8	27	— 2.8	77	nw.	18	8.0	.....	0	8 s	.....	nw.	0.17	4.3	cloudy.....	T. B. Jennings.
Springfield, Missouri	28.95	735.3	30.46	773.7	26.0	— 3.3	82	nw.	7	3.1	.....	0	0	.....	.....	0.05	1.3	clear	J. H. Bryce.
Starkville, Miss.	29.80	756.9	30.30	769.6	47	8.3	68	n.	18	8.0	.....	.....	10 s	.....	n.	0.12	3.0	cloudy.....	C. Dill.
Stevenson, Fort, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Schneider.
Stockton, Fort, Texas	27.40	695.9	30.53	775.4	36	2.2	92	ne.	10	4.5	.....	.....	10 s	.....	n.	0	0	cloudy	A. J. Warren.
Thatcher's Island, Mass.	30.10	764.5	30.16	766.1	35.5	1.9	100	s.	31	13.9	.....	.....	10n;fg	.....	s.	0.18	4.6	light rain....	G. Liebmann.
Thomas, Camp, Arizona	27.53	699.2	30.36	771.1	56	10.0	66	e.	.....	.....	1	0	3 k	.....	.....	0	0	clear.....	J. T. Fitzgerald.
Toledo, Ohio	29.18	741.2	29.92	760.0	34	1.1	79	w.	24	10.7	.....	.....	10 n	.....	w.	0.26	6.6	light snow..	A. Buell.
Tucson, Arizona	27.66	702.6	30.14	765.5	51	10.6	74	calm	0	0	.....	9 cs	0	.....	.....	0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	30.15	765.8	30.53	775.4	25	— 3.9	88	se.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	J. Daly.
Verde, Fort, Arizona	.....	.....	.....	.....	34	1.1	55	ne.	.....	.....	2	0	0	.....	.....	0	0	clear.....	O. L. Pease.
Vicksburg, Mississippi	30.06	763.5	30.33	770.4	49.0	9.4	69	nw.	19	8.5	.....	.....	10 s	.....	nw.	0	0	cloudy.....	James Kenealy.
Visalia, California	29.82	757.4	30.20	767.1	46.0	7.8	86	se.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	O. D. Stewart
Washakie, Fort, Wyoming	24.71	627.6	30.47	773.9	— 2.0	—18.9	83	w.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	T. M. Ambler.
Washington, D. C.	29.88	758.9	30.00	762.0	36.8	2.7	92	w.	2	0.9	.....	4 k	0	w.	.....	1.27	32.3	fair.....	B. M. Purssell.
West Las Animas, Colorado	26.38	670.0	30.51	774.9	9.5	—12.5	80	w.	7	3.1	.....	0	0	.....	.....	0.18	4.6	clear.....	F. H. Brandenburg.
Williamsport, Pa.	29.30	744.2	29.92	760.0	40.5	4.7	78	ne.	1	0.4	.....	.....	10 ks	.....	.....	0.41	10.4	threatening.	B. F. Hough.
Wilmington, N. Carolina	30.02	762.5	30.08	764.0	62	16.7	93	w.	11	4.9	.....	.....	10 s	.....	nw.	1.19	30.2	cloudy.....	Samuel A. Haney.
Winnemucca, Nevada	25.90	657.8	30.42	772.7	26.5	— 3.1	76	ne.	13	5.8	.....	0	0	.....	.....	0	0	clear.....	J. Grover.
Yankton, Dakota	28.92	734.6	30.34	770.6	12	—11.1	80	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	J. H. Atfield.
Yuma, Arizona	29.93	760.2	30.08	764.0	59.3	15.2	38	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.01	559.0	.....	.....	55.0	12.8	83	ne.	2	0.9	.....	.....	10 s	.....	ne.	0.07	1.8	foggy.....	Joaquin Gomez.
Kingston, Jamaica, W. I.	30.09	764.3	30.10	764.5	70	21.1	84	n.	1	0.4	.....	0	2 s	.....	e.	0	0	clear..	Robert Johnston.
Paramaribo, S. A.	30.01	762.2	30.01	762.2	78	25.6	82	e.	.....	.....	3	4 c	5 k	e.	e.	0	0	fair.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.37	746.0	29.93	760.2	79	26.1	85	calm	.....	.....	0	5 c	5 ks	calm	calm	0	0	cloudy.....	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.33	745.0	29.39	746.5	20	— 6.7	70	n.	.....	.....	4	.....	10	.....	n.	0.37	9.4	snowing.....	W. J. Fisher.
St. Thomas, W. I.	30.05	763.3	30.18	766.6	72	22.2	82	e.	.....	.....	.....	.....	8 kn	.....	e.	0.15	3.8	cloudy	Aug. Wallon.
Havana, Cuba	30.05	763.3	30.12	765.0	72.5	22.5	86	se.	2	0.9	.....	0	8 k	.....	se.	0	0	cloudy..	Benito Vines, S. J.
York Factory, B. A.	30.02	762.5	30.09	764.3	—16.0	—26.7	100	w.	17	7.6	.....	3 k	4 s	nw.	w.	0.02	0.5	.....	Fortesque & Wood.

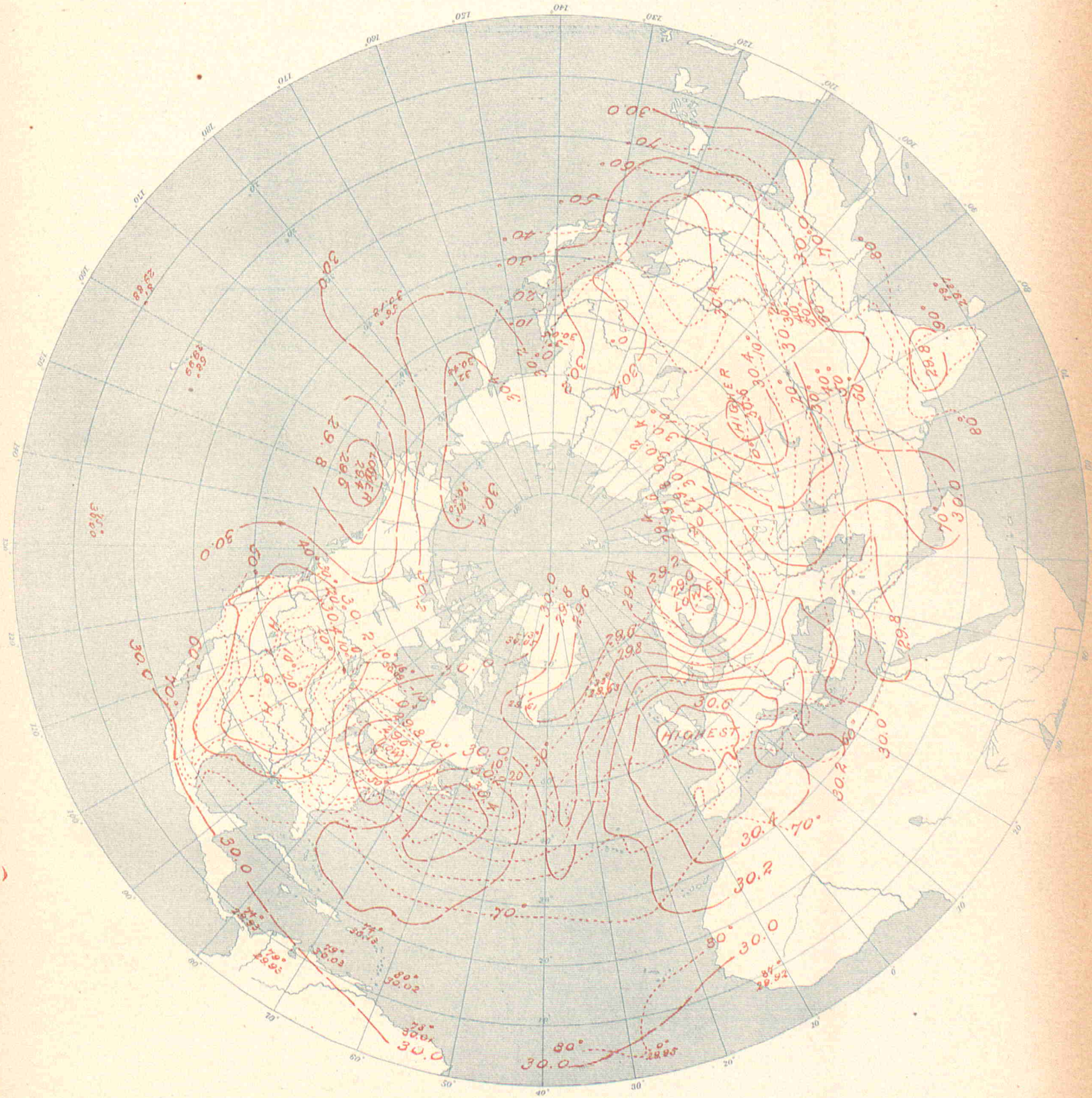
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell. Character.	Sea-swell. Direction from	Weather.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. Dock-Yard, Bermuda, W. I.	30.38	771.6	59	15.0	64	ene.	.....	.....	3-4	.....	8	ene.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Fawn, N. 42° 06′, W. 27° 52′	30.23	767.8	58.5	14.7	94	ese.	.....	.....	5	.....	10	ese.	.....	.....	.....	4	ese.	overcast.
H. M. S. Monarch Port Said, Egypt	29.71	754.6	61	16.1	66	s.	.....	.....	4-5	.....	10	.....	.....	.....	.....	.....	.....	squally.
H. M. S. Minotaur, Vigo Bay, Spain	30.45	773.4	61	16.1	73	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Tyne, N. 15° 36′, W. 59° 56′	30.07	763.8	77	25.0	82	ene.	.....	.....	4-5	.....	3	e.	.....	.....	.....	3	ene.	d. clouds.
U. S. Navy Yard, Portsmouth, N. H.*	30.19	766.8	34	1.1	?	se.	14	6.3	.....	.....	10	.....	.....	se.	.....	.....	.....	raining.
U. S. S. Alliance, off Nuevitas, Cuba	30.12	765.0	77	25.0	95	ene.	.....	.....	3-4	.....	8	.....	.....	light	light	sm'h	.....	cloudy.
U. S. S. Juniata, Malta, Mediterranean*	30.20	767.1	55	12.8	87	ne.	.....	.....	4	.....	2	.....	.....	ne.	e.	mod.	e.	clear.
U. S. S. Kearsarge, Cartagena, U. S. C.	29.88	758.9	74	23.3	90	ne.	.....	.....	1	.....	5	.....	.....	calm	.....	.....	.....	hazy.
U. S. S. Lancaster, Southampton, Eng.	30.71	780.0	46	7.8	92	s.	.....	.....	1	.....	10	.....	.....	calm	.....	.....	.....	misty.
U. S. S. Portsmouth, Fort Royal, Martinique, W. I.	30.09	764.3	79	26.1	95	ne.	.....	.....	2	.....	2	.....	.....	e.	.....	.....	.....	fair.
U. S. S. Powhatan, N. 26° 46′, W. 70° 06′	30.28	769.1	73	22.8	81	se.	.....	.....	3	.....	5	.....	.....	se.	.....	sm'h	se.	cloudy.
U. S. S. Saratoga, N. 33° 54′, W. 60° 17′	30.49	774.4	55	12.8	55	e.	.....	.....	3-4	.....	8?	.....	.....	e.	0	0	mod.	e. clear.?
U. S. S. St. Louis, League Island, Pa.	30.02	762.5	46	7.8	100	sse.	3.3	1.5	.....	.....	10	.....	.....	.....	0.375	9.5	.....	..... drizzling.
U. S. S. Swatara, Hampton Roads, Va.	.....	.....	55	12.8	87	wsw.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	foggy.
U. S. S. Tennessee, Aspinwall, Panama*	29.94	760.5	84	28.9	79	nne.	6	2.7	.....	.....	5?	.....	.....	0.01	0.3	.....	.....	cloudy?
U. S. S. Vandalia, N. 10° 11′, W. 79° 17′*	29.95	760.7	79	26.1	82	ne.	.....	.....	4	.....	2	.....	.....	ne.	.....	mod.	.....	fair.
U. S. S. Vantic, Pensacola, Fla.	30.14	765.5	66	18.9	100	nw.	.....	.....	4	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
S. S. British Crown, N. 50° 01′, W. 26° 49′ †	30.05	763.3	52	11.1	.....	se.	.....	.....	6	.....	10	.....	.....	se.	4 h'r	4 h'r	mod.	ssw. drizzling.
S. S. British Prince, N. 40° 30′, W. 64° 40′ †	30.45	773.4	36	2.2	.....	ese.	.....	.....	3	.....	10	.....	.....	se.; sw.	0	0	sm'h	..... fine.
S. S. Indiana, Fastnet, Ireland †	30.56	776.2	48	8.9	78	s.	.....	.....	4	.....	5	.....	.....	sw.	0	0	mod.	sw. fair.
S. S. Lord Clive, N. 41° 26′, W. 60° 12′	30.48	774.2	.....	.....	.....	nw.	.....	.....	2	.....	8	.....	.....	wsw.	.....	.....	sm'h	..... cloudy
S. S. Ohio, Philadelphia, Pa†	30.00	762.0	.....	.....	.....	sse	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
S. S. Pennsylvania, N. 41° 23′, W. 63° 56′ †	30.48	774.2	28	— 2.2	?	wsw.	.....	.....	4	.....	8	.....	.....	sw.	8 h'r	8 h'r	sm'h	sw. cloudy.
S. S. Circassian, N. 43° 35′, W. 61° 40′*	30.67	779.0	22	— 5.6	.....	se.	.....	.....	3	.....	10	.....	.....	s.	0	0	1	s. overcast.
S. S. Manitoban, N. 43° 15′ W. 62° 05′	30.51	774.9	22	— 5.6	.....	se.	.....	.....	2	.....	7	.....	.....	s.	0	0	sm'h	..... cloudy.
S. S. Jason, N. 41° 42′, W. 56° 54′	.....	.....	51.8	11.0	.....	s.	.....	.....	6	.....	5 k?	.....	.....	.....	.....	5	s.	cloudy?
S. S. Alvo, Gonaives, Hayti, W. I.	30.10	764.5	77	25.0	.....	ene.	.....	.....	3-4	1 c	0	ne.	.....	0	0	.....	.....	fine.
S. S. Alene, Kingston, Jamaica, W. I.*†	30.08	764.0	.....	.....	.....	.....	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	fine.
S. S. Ailsa, N. 23° 29′, W. 74° 29′ †	30.20	767.1	76	24.4	91	e.	.....	.....	4	.....	2	.....	.....	e.	0	mod.	e.	fair.
S. S. Anchoria, N. 55° 22′, W. 13° 48′ †	30.46	773.7	.....	.....	.....	sw.	.....	.....	4	.....	8	.....	.....	sw.	shr's	shr's	sli't	wnw. hazy.
S. S. Bolivia, Glasgow, Scotland	30.65	778.5	49	9.4	.....	wnw.	.....	.....	2	.....	8	.....	.....	.....	0	0	.....	..... cloudy.
S. S. Dorian, N. 46° 58′, W. 40° 00′	29.88	758.9	46	7.8	.....	nw.	.....	.....	6	.....	10	.....	.....	nw.	snow	snow	r'gh	nw. overcast.
S. S. Utopia, N. 49° 56′, W. 7° 37′ *	30.63	778.0	53	11.7	86	se.	.....	.....	3	.....	3	.....	.....	se.	.....	.....	mod.	nw. clear.
S. S. Landaff City, N. 45° 50′, W. 39° 42′ †	29.90	759.4	36	2.2	.....	wnw.	.....	.....	6	.....	10	.....	.....	n.	12 h'r	12 h'r	hv'y	n. cloudy.
S. S. Bothnia. N. 42° 32′, W. 53° 40′	30.45	773.4	25	— 3.9	88	nnw.	.....	.....	6	.....	9	.....	.....	nnw.	.....	.....	mod.	w. cloudy.
S. S. Marathon, Leghorn, Italy	30.36	771.1	69	20.6	.....	n.	.....	.....	1	.....	3	.....	.....	n.	0	0	.....	..... fine.
S. S. Pavonia, N. 41° 57′, W. 49° 31′	30.22	767.6	28	— 2.2	76	nnw.	.....	.....	5	.....	9	.....	.....	nnw.	snow	snow	mod.	nnw cloudy.
S. S. Canada, N. 42° 40′, W. 53° 38′	30.51	775.0	17.6	— 8	.....	nnw.	.....	.....	3	ck	.....	nnw.	.....	.....	.....	.....	sm'h	nnw. cloudy.
S. S. Pereire, N. 40° 08′, W. 70° 10′†	30.13	765.3	42.8	6	.....	se.	.....	.....	6	.....	10	.....	.....	w.	rain	rain	sm'h	sse. covered.
S. S. Abyssinia, N. 40° 36′, W. 68° 00′	30.25	768.3	73	22.8	.....	e.	.....	.....	3	.....	3	.....	.....	e.	sh'rs	sh'rs	sm'h	..... fair.
S. S. Vandalia, N. 43° 26′, W. 50° 45′	30.33	770.4	42	5.6	91	ese.	.....	.....	4	.....	10	.....	.....	w.	0	0	mod.	ese. gloomy.
S. S. Wieland, N. 48° 40′, W. 33° 52′	30.45	773.4	41.4?	5.2?	89	nw.	.....	.....	6	.....	10	.....	.....	nw.	.....	.....	5	nw. snow.squalls
S. S. City of Berlin, N. 51° 23′, W. 16° 00′	29.81	757.2	.....	.....	.....	s.	.....	.....	5	.....	8	.....	.....	s.	0	0	r'gh	s. hazy.
S. S. Mentmort, N. 51° 23′, W. 22° 11′*†	30.50	774.7	50	10.0	?	sse.	.....	.....	6	.....	10	.....	.....	.....	4 h'r	4 h'r	mod.	w. cloudy.
S. S. Archimedes, Lisbon, Portugal	30.39	771.9	.....	.....	.....	sw.	.....	.....	6	.....	10	.....	.....	sw.	0	0	sm'h	sw. gloomy.
S. S. Colorado, N. 32° 59′, W. 76° 25′ †	30.34	770.6	.....	.....	.....	n.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	sm'h	..... fair.
S. S. Rio Grande, Key West, Fla †	30.07	763.8	65	18.3	.....	se.	.....	.....	6	.....	10	.....	.....	sse.	18 h'r	18 h'r	small	n. cloudy.
S. S. San Marcos, N. 28° 45′ W. 92° 22	30.09	764.3	76	24.4	.....	se.	.....	.....	3	.....	7	.....	.....	nw.	sli't	sli't	mod.	se. cloudy.
S. S. Chalmette, N. 28° 38′, W. 79° 45′ †	.....	.....	58	14.4	.....	nne.	.....	.....	3	.....	7	.....	.....	ne.	0	0	.....	n.
S. S. Lone Star, N. 27° 50′ W. 80° 10′†	30.19	766.8	74	23.3	.....	s.	.....	.....	6	.....	5	.....	.....	sw.	0	0	long	nne. fair.
	30.18	766.6	71	21.7	.....	sse.	.....	.....	2	.....	3	.....	.....	s.	0	0	small	e. hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. Alleghany, N. 41° —', W. 71° 40'†	30.18	766.6	40	4.4		se.			7		8		s	8 h'r	8 h'r	long	se.	stormy.
S. S. Picqua, Genoa, Italy			65	18.3		n.			3		0			0	0			clear.
S. S. City of Merida, N. 19° 50', W. 90° 49'.†.	30.06	763.5	77	25.0		se.			3		1?		e.	0	0	light	e.	cloudy?
S. S. City of Washington, N. 25° 00' W. 80° 04'†	30.18	766.6	78	25.6		se.			4		5		se.	0	0	mod.	n.	fine.
S. S. Denmark, N. 44° 08', W. 49° 21'†	30.44	773.2	16	— 8.9		n.			5		8		n.	snow	snow	mod.	wnw.	cloudy.
S. S. Erin, N. 49° 09', W. 15° 35'	30.42	772.7	51	10.6		se.			3		8		se.	0	0	sm'h	nw.	fine.
S. S. Greece, N. 49° 36', W. 10° 38'	30.27	768.8	51	10.6		sse.			5		10		ssw.	0	0	light	nw.	overcast.
S. S. Helvetia, N. 41° 40' W. 62° 00'	30.47	773.9	30	— 1.1		ssw.			1		10		w.	8 h'r	8 h'r	sm'h		overcast
S. S. America, N. 49° 46', W. 18° 44'*	30.46	773.7	52.0	11.1	86	s.			4-5		9		se.	0	0	sm'h	s.	covered.
S. S. Donau, N. 40° 15', W. 70° 19'	30.26	768.6				sse.			0		10		sse.	8 h'r	8 h'r	r'gh	sse.	light rain.
S. S. Elbe, N. 49° 49', W. 7° 00'	30.71	780.0	47	8.3		ese.			3-4		6		ese.	0	0	sm'h	ese.	cloudy
S. S. Hermann, N. 46° 44', W. 33° 10'	29.83	757.7	55.4	13.0	93	s.			6		10		wsw.	0	0	5	s.	covered.
S. S. Neckar, N. 47° 15', W. 38° 27'	29.72	754.9	43.0	6.1	100	wnw.			5		10		wnw.	4 h'r	4 h'r	mod.	nw.	light rain.
S. S. Weser, N. 41° 29', W. 59° 57'	30.58	776.7				nnw.			1-7		8		n.	snow	snow	r'gh	n.	hazy.
S. S. Muriel, N. 24° 00', W. 05° 42'*	30.20	767.1	75	23.9		ene.			4		0					mod.	e.	
S. S. Belgenland, English Channel*†	30.66	778.7	44	6.7	92	calm			0		10			0	0			light fog.
S. S. Nederland, N. 40° 38' W. 68° 50'			41	5.0	100	se.			5		10			6 h'r	6 h'r	short	se.	rainy.
S. S. Rhynland, N. 40° 26', W. 74° 00'	30.14	765.5	41	5.0	100	s.			3		10			10 h'r	10 h'r			raining.
S. S. Pennland, N. 49° 09' W. 46° 32'	30.09	764.3	28	— 2.2	88	nnw.			0		10		nw.	10 h'r	10 h'r	high	nnw.	misty.
S. S. Waesland, N. 49° 50', W. 23° 43'	30.30	769.6	52	11.1		sse.			5		10		sse.	0	0	mod.	s.	cloudy.
S. S. Zeeland, N. 45° 00', W. 50° 47'*†	30.34	770.6	16	— 8.9		n.			4		1?		nw.	snow	snow	sm'h		snowing?
S. S. Schiedam, N. 47° 30' W. 36° 22'	29.70	754.3	51.6	10.9		nnw.			6		10			5 h'r	5 h'r	long	var.	rainy.
S. S. W. A. Scholten, Beachy Head, Eng*	30.07	779.0	46.4	8.0	92	sw.			3		10		w.	0	0	sm'h	w.	foggy.
S. S. Zaandam, N. 49° 55', W. 14° 31'	30.56	776.2	58.6	14.8	74	se.			2		6 n		se.	0	0	2	s.	cloudy.
S. S. Curacas, Curacao, Venezuela†	30.03	762.7	79	26.1	86	e.			3		2		ne.	20 h'r	20 h'r	sm'h		squally.
S. S. Claudius, Port Antonio, Jamaica†	30.15	765.8	72.0	22.2	80	s.			2		5		e.	light	light			fair
S. S. Valencia, N. 38° 33', W. 73° 20'†	30.10	764.5	60	15.6	82	s.			6		10		ssw.	10 h'r	10 h'r	h'vy	s.	heavy rain.
S. S. State of Florida, N. 41° 20', W. 64° 00'	30.30	769.0	31	— 0.6		sw.			2		9			0	0	sm'h		cloudy.
S. S. Lepanto, N. 35° 57', W. 3° 19'*†.	30.00	777.2	61	16.1		ene.			2		0			0	0	sm'h		clear.
S. S. Marengo, N. 48° 39', W. 29° 29'†.	29.88	758.9				se.			0		10		se.	6 h'r	6 h'r	high	se.	light rain.
S. S. Salerno, N. 49° 45', W. 15° 07'			49	9.4		ssw.			4		10		nw.	0	0	sm'h	nw.	overcast.
S. S. Brooklyn, N. 42° 26'. W. 53° 44'			24	— 4.4		n.			3				n.	2 h'r	2 h'r	long	n.	cloudy.
S. S. Toronto, N. 43° 03', W. 54° 46'			22	— 5.6		nw.			4		2		wnw.	2 h'r	2 h'r	mod.	nw.	fair.
S. S. Lake Huron, N. 45° 24', W. 40° 12'.			38	3.3		nnw.			5		10		n.	2 h'r	2 h'r	mod.	nw.	cloudy.
S. S. Olbers, N. 11° 49', W. 27° 11'*†.	29.96	761.0	81	27.2		ne.			5		6		ese.	0	0	cross	var.	fine.
S. S. Aries, N. 40° 23', W. 73° 18'*†.	29.90	759.4				se.			7		10		sse.	3 h'r	3 h'r	h'vy	e.	stormy.
S. S. Catherine Whiting, Delaware Bay†	30.09	764.3	70	21.1		s.			1					rain	rain			
S. S. Saxon, N. 41° 34' W. 69° 57'†	30.09	764.3				se.					10							heavy rain.
S. S. Baltic, N. 50° 43', W. 23° 05'*	30.26	768.6	51	10.6	86	s.			5		8		wsw.	0	0	mod.	ssw.	misty.
S. S. Celtic, N. 40° 29', W. 67° 32'†.	30.44	773.2	38	3.3		se.			4		10			0	0	sm'h		overcast.
S. S. Iowa, N. 51° 25', W. 10° 21°†.	30.70	779.8	50	10.0		se.			4		8		se.	0	0	long	se.	cloudy.
S. S. Auckland, N. 23° 00', W. 41° 54'	30.09	764.3	75	23.9	64	se.			1		3							blue sky.
S. S. Chamois, N. 17° 38', W. 73° 20'.	30.09	764.3	77.5	25.3	72	ene.			6		5							d clouds.
Bk. Commewyne, N. 32° 55', W. 28° 58'*	30.11	764.8	68.8	20.4	77	ssw.			4		2							blue sky.
S S. City of Agra, N. 47° 40', W. 22° 00'	30.33	770.4	52.5	11.4	93	sse.			5		10							overcast.
Coppename, N. 6° 15' W. 56° 58'	29.96	761.0	78	25.6	82	ne.			4		7							d. clouds.
S. S. Ptolmey, N. 33° 45', W. 09° 12'	30.37	771.4	61.7	16.5	82	se.			0		10							gloomy.
S. S. Antonio Lopez, Havana, Cuba, W. I.	30.12	765.0	72.5	22.5	92	ese.			1		7			0	0			hazy.
Schr. Abbie H. Gheen, Camden, N. J†.	29.97	761.2	44	6.7		ssw.			5									foggy.
Bg. Abbie Clifford, N. 33° 00' W. 77° 16'†	30.17	766.3	71	21.7		ssw.			4		10		sw.	2 h'r	2 h'r	mod.	e.	cloudy.
Bk. Aquidneck, N. 11° 19', W. 34° 51' *†.	30.20	767.1				e.			2				e.	0	0	light	e.	clear.
Bg. Aleira, Maracaybo, Venezuela, S. A.	30.00	762.0	81	27.2		nnè.			2		5?		ne.	0	0			clear. ?
Schr. Anna A. Holton, N. 23° 31', W. 96° 31'†.	30.05	763.3	76	24.4		n.			2		8		n.	½ h'r	½ h'r	mod.	e.	raining.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.20	767.1	77	25.0		ene.			5		10		ne.	0	0			cloudy.
Schr. Anna Thormann, N. 34° 20', W. 39° 17'*.	29.90	759.4	64.0	17.8	90	ssw.			6		10kn			0	0	cross	var.	misty.
Bk. Aureola, N. 51° 00', W. 5° 03' *†.	30.80	782.3	60	15.6		s.			2		6		s.	5 h'r	5 h'r	mod.	w.	fair.
Bk. Achille F, N. 50° —' W. 5° —'†.	30.73	780.5	47	8.3	88	ese.			3		7		ese.	0	0	sm'h		
Bg. Annie R. Stoner, N. 19° 30' W. 69° 50'*†	30.18	766.6				ene.			5		2		ene.	1 h'r	1 h'r	r'gh	ne.	squally.
S. S. Burswell, N. 51° 39', W. 00° 50'*†.	30.05	778.5	59	15.0		ssw.			1		2		ese.	0	0	sm'h		fine.
Bk. Pilgrim, N. 10° 37', W. 37° 03'*†	30.00	762.0				e.			4		1		e.	0	0	mod.	e.	clear.
Bg. Clara M. Goodrich, N. 33° 00', W. 72° 45'						se.			9		8		se.	0	0	r'gh	e.	threatening.
Bk. Champion, Cuxhaven, Germany			48	8.9		wsw.			7		8		wnw.	0	0			
Bkt. C. S. Bushnell, Alicante, Spain	30.53	775.4				var.			1		0			0	0	sm'h		fine
S. Cornelius, N. 43° 19', W. 20° 15'†.	30.37	771.4	54.5	12.5		s.			5		4?		sw.	0	0	sm'h		cloudy.
Schr. C. R. Flint, N. 29° 04', W. 01° 24'*†.	30.45	773.4	64	17.8		ene.			3		8		ene.	0	0	r'gh	ne.	fair.
Bk. Commerce, Cadiz, Spain †.	30.33	770.4	68	20.0		ese.			4		0			0	0			fine.
S. S. Canonbury, N. 22° 20', W. 51° 34'*†	30.19	766.8				s.			2		2		ne.	0	0	light	ne.	clear.
Bk. Chas. Stewart, N. 4° 59', W. 32° 30' †.	30.01	762.2	80	20.7		ene.			0		6		ene.	light	light	rg'h	var.	squally.
Schr. Edith R. Seward, San Domingo, Hayti, W. I†	30.04	763.0	74	23.3		n.			2		2		nne.	1 h'r	1 h'r	mod	se.	clear.
S. E. J. Spicer, N. 38° 38', W. 00° 56'	30.55	776.0	50	10.0	100	ne.			3		10		ne.	sq'lls	sq'lls	high	ne.	cloudy.
Bk. E. D. Bigelow, N. 31° 35', W. 50° 35' *†.	30.10	764.5				n.			0		2		n.	0	0	cross	nne.	squally.
Schr. F. E. McDonald, N. 25° 32' W., 59° 45'†	30.26	768.6				nne.			5					0	0		ne.	hazy.
S. S. Foscolo, N. 37° 14', E. 06° 30'†.	30.40	772.1				wnw.			4		2		nw.	0	0	sm'h	e.	fair.
S. Festina Lente, N. 54° 15', W. 25° 01'.	30.10	764.5	47.5	8.6		s.			5		10		s.	14 h'r	14 h'r	cross	wsw.	misty.
Bg. Gipsy Queen, Cardenas, Cuba, W. I*†.	30.10	764.5	76	24.4		e.			2									fair.
Bk. Guchen, N. 43° 58', W. 10° 14'*†.	30.38	771.7	53.0	12		ese.			3-7		8		e.			sm'h	e.	hazy.
Bk. Galeon, N. 51° 25', W. 5° 25'			55	12.8		wsw.			2		2		e.			sm'h	w.	fine.
S. Hedwig, N. 58° 32', E. 0° 10'.	30.47	774.0	45.9	7.7	86	wnw.			0		3		wnw.	5 h'r	5 h'r	5	nw.	squally.
Bk. Hattie G. McFarland, Pascagoula, Miss*†	30.25	768.3	54	12.2		n.			5		8		n.	3 h'r	3 h'r			hazy.
Bk. Horace Scudder, N. 3° 20', W. 29° 08'*†.	29.95	760.7	80	26.7		ne.			3		5		ne.	sq 'lls	sq 'lls	long	ne	fine.
Schr. Isabel Alberto, N. 25° 44', W. 78° 04'†.	30.15	765.8				se.			3		2		se	0	0	sm'h		clear.
S. S. J. W. Wilson, Tuspan, Mexico*†	30.07	763.8	70	21.1		calm			0		10			0	0			foggy.
S. J. W. Gildemeister, N. 49° 38', W. 4° 30'	30.68	779.3	50.0	10.0	82	e.			2		8 k		e.	0	0	sm'h		overcast.
Bg. L. & W. Armstrong, Pointea Pitre, Guadeloupe*†	30.08	764.0				ene.			1		1		ene.	½ h'r	½ h'r			clearing.
Bg. Lilian, N. 25° 58', W. 03° 38'†.	30.20	767.1	71	21.7		ne.			2		4		ene.	sqll's	sqll's	r'gh	var.	squally.
Bk. Louise Adelaide, Havana, Cuba, W. I†.	30.09	764.3				e.			1		5		e.	0	0			fine.
S. S. Madrid, N. 36° 39' W. 0° 58'*†.	30.56	776.2	59	15.0	81	var.			2		0			0	0	sm'h		clear.
Bk. Mary A. Troop, Sharpness Point, Eng*†	30.00	777.2				wnw.			2		1		wnw.	0	0			fair.
Bkt. Myrtle, St. Thomas, W. I						e.			3		5		e.					showery.
S. M. P. Grace. N. 48° 15', W. 20° 35' *.	30.27	768.8	52	11.1		se.			5		7		se.	0	0	r'gh	se.	cloudy.
S. S. Mendoza, N. 15° 10', W. 42° 51'*†.	30.05	763.3				e.			4		5?		e.	0	0	sm'h		clear.
Bkt. Norena, N. 30° 50', W. 78° 50'*†.	30.22	767.6				sse.			4		9		wsw.	3 h'r	3 h'r		var.	squally.
Bk. Orpheus, N. 47° 00' W. 21° 43'.	30.46	773.7	59	13.3		s.			4		8 k		sw.			sm'h		hazy.
Bk. Ottawa, N. 32° 37', W. 20° 15' *.	30.28	769.1	66	18.9		se.			4		7		sse.	0	0	mod.	s.	fair.
Bk. Reindeer, N. 31° 17', W. 73° 22' *.	30.16	766.1				sse.			0		10		sw.			short	sse.	
S. Rudolph, N. 22° 00', W. 52° 34'			74.5	23.6		wnw.			2		4		n.	0	0	mod.	e.	fair.
Bk. Rebus, N. 35° 24', W. 23° 00'*.	30.06	763.5	64	17.8		sse.			5		5		nne.	0	0	mod.	ssw.	misty.
Bk. Sunbeam, N. 23° 29', W. 39° 50'.	30.05	763.3	72	22.2	80	s.			3		0			0	0	sm'h		clear.
Bk. Usko. N. 27° 28', W. 28° 32'*	30.10	764.5	69	20.6		calm			0		3		s.	0	0	mod.	var.	fair.
S. Vincenzo Accame, N. 47° 08' W. 27° 48'*†.	30.19	766.7	59.6	15		se.			0		10		se.	0	0	r'gh	sw.	gloomy.
Schr. Viola Reppard, N. 39° 10', W. 74° 02' †.	29.98	761.5	60	15.6		sse.			7		10		sse.	6 h'r	6 h'r	h'vy	se	storming.
Schr. Wm. Wiler, St. Thomas Island, W. I†.	30.11	764.8				ne.			5		8		ne.	2 h'r	2 h'r			rainy.
S. S. Wm. Woodbury, N. 5° 55', W. 11° 50'*.	30.42	772 7	42	5.6		ssw.			4		2?		wsw.			high	w.	cloudy.?
S. S. Colon, Aspinwall, Panama†.	29.93	760.2	78	25.6		ne.			4		3		ne	0	0	mod.		clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2.—South Atlantic.																		
H. M. S. Starling, S. 6° 04′, E. 12° 15′	29.84	757.9	81.5	27.5	94	ese.			3		3	ese.						d. clouds
U. S. S. Brooklyn, Montevideo, Uruguay*	29.67	753.6	76	24.4	60	nnw.	8	3.6			5		nnw.	0	0			fair.
U. S. S Galena, Colonia, Uruguay*	29.70	754.4	71	21.7	7	wnw.			2		10		nw.			sm'h		cloudy.
S. S. Grecian, Buenos Ayres, La Plata*	29.71	754.6	73	22.8	81	wnw.			4		10		wnw.	0	0			cloudy.
S. S. Hevelius, S. 8° —′, W. 32° —†	30.10	764.5	81	27.2		e.			6		10		ene.	6 h'r	6 h'r			raining.
S. S. Caldew, S. 2° 44′, W. 21° 19′	29.96	761.0	78	25.6	86	n.			1		5							d. clouds.
Bk. Ceres, S. 19° 42′ W., 36° 11′ *	30.01	762.2	82.0	27.8	73	n.			2		3		n.	0	0	sm'h	ene.	clear.
Bk. Bore, S 4° 36′, W. 28° 15′*†	30.29	769.4	82	27.8		ene.			3		10		ne.	15 h'r	15 h'r	sm'h		cloudy.
S. Armenia, S. 8° 20′, W. 34° —′*	29.84	757.9	81	27.2	87	ese.			3		10		ese.	4 h'r	4 h'r	mod.	s.	overcast.
Bk Essex, S. 25° 23′, E. 3° 18′ *†	29.94	760.5	80.0	26.7		var.			1		0			0	0	mod.	s.	fine.
Bk. E. L. Pettingill, S. 9° 48′, W. 30° 10′*†	30.10	764.5	80	26.7		e.			6		5		e.	0	0	mod.		
S. E. B. Sutton, S. 35° 30′, W. 52° 59′†	29.82	757.4	72.5	22.5	95	nnw.			6		5		wsw.	0	0	mod.	var.	fair.
S. Grecian, S. 36° 45′, W. 15° 16′†	29.84	757.9	67	19.4	89	sw.			5		4		sw.	8 h'r	8 h'r	sm'h	s.	clear.
S. Sovereign of the Seas, S. 47° 30′, W. 40° 34′ *†	29.26	743.2	52	11.1	93	w.			6		8		w.	4 h'r	4 h'r	r'gh	var.	hazy.
S. Titan, S. 43° 38′, W. 56° 40′ *†	29.40	746.7	61	16.1	86	s.			4		10		w.	0	0	r'gh	wnw	fine.
Bkt. Wandering Jew, Montevideo, Uruguay †	29.72	754.9	75	23.9		nnw.			5		10		n.	0	0			threatening.
District No. 3—North Pacific.																		
S. S. Belgic, N. 40° 08′, E 174° 01′ *†	30.08	764.0	56	13.3	81	ese			6		8		e.	3 h'r	3 h'r	h'vy	e.	cloudy.
S. S. Coptic, N. 37° 59′. E. 165° 45′	30.13	765.3	50.0	10.0	34	var.			3		6		nw.	7 h'r	7 h'r	mod.	con.	raining.
S. S. Oceanic, N. 27° 16′, E. 123° 28′ *	30.33	770.4	52	11.1	86	nne.			6		9		sw.			mod.	nne.	cloudy.
S. S. Oregon, N. 43° 05′, W. 124° 49′ †	30.23	767.8	42	5.6	91	sse.			2		8		s.			sm'h		cloudy.
S. S. Mississippi, N. 46° 34′ W. 124° 38′ †	30.24	768.1	45	7.2	84	nne.			3		0					light	nnw.	clear.
S. S. Willamette, Seattle, Wash. Ter†	30.43	772.9	30	— 1.1	89	calm			0		2		ne.	0	0			clear.
S. S. Ancon, San Francisco, Cal †	30.16	766.1	51	10.6	79	calm			0		10							cloudy.
S. S. City of Chester, near Point Ryes, Cal *†	30.18	766.6	46	7.8	100	se.			4		fg.			0	0	light	sw.	foggy.
S. S. Dakota, Seattle, Wash. Ter *†.	30.29	769.4	36	2.2	90	e.			1		10		ne.	0	0	sm'h		cloudy
S. S. Orizaba, N. 34° 35′, W. 120° 40′*†	30.10	764.5	60	15.6	82	nw.			7		fg		nw.	0	0	long	nw.	foggy.
S. S. State of California, N. 41° 00′, W. 124° 30′†	30.20	767.1	43	6.1	92	calm			0		5					sm'h	sw.	foggy.
S. S. City of New York, N. 7° 58′, W. 162° 45′ †.	29.88	758.9	81	27.2	78	e.			4		0			1 h'r	1 h'r	mod.	se.	clear.
S. S. City of Pekin, N. 34° 33′, E. 135° 00′ †	30.12	765.0	54	12.2	74	nnw.			4		10		nw.			mod.	nnw.	cloudy.
S. S. City of Rio de Janeiro, N. 22° 57′, W. 108° 40..			67	19.4	69	nw.			2		0			0	0	mod.	n.	clear.
S. S. Colima, Panama Panama†	29.93	760.2	74	23.3	86	nnw.			3		2		ne.	0	0			clear.
S. S. San José, Acapulco, Mexico †	29.95	760.7	80	26.7	82	sw.			2		1		sw.	0	0			clear.
H. M. S. Curacoa, N. 33° 49′, E. 137° 06′	29.98	761.5	49.5	9.7	72	n.			3–4		3					4	nw.	d. clouds.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	30.00	762.0	71	21.7		calm			0		0							blue sky.
H. M. S. Swiftsure, N. 12° 45′, W. 134° 16′	30.00	762.0	75	23.9	100	nne.			4–5		6	ne.						d. clouds
U. S. Naval Hospital, Yokohama, Japan*	30.20	767.1	43	6.1	83	w.			1		10			sli't	sli't			gloomy.
U. S. S Independence, Mare Island, Cal	30.21	767.3	46	7.8	92	calm			0		10			0	0			cloudy.
U. S. S. Lackawanna, Honolulu, Sandwich Islands*	29.98	761.5	71	21.7	85	nne.			1		2		ne.					clear.
U. S. S. Monocacy, Hong Kong, China	30.23	767.8	56	13.3	81	ne.			2		10		calm			sm'h		cloudy.
U. S. S. Palos, Tientsin, China*	30.42	772.7	28	—2.2	100	sw.			1		0							clear.
U. S. S. Ranger, Mare Id, Cal	30.17	766.3	47	8.3	92	calm			0		10			0	0			fair
U. S. S. Richmond, Hong Kong, China*	30.16	766.1	56	13.3	75	e.			2		10		e.	0	0			cloudy.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.99	761.7	68	20.0	84	ne.			1		2		ne.			sm'h		fair.
S. S. Scotia, N. 23° 55′ E. 118° 18′	30.30	769.6	49	9.4	85	ne.			7		10							squally.
S. Henry Failing, Wilmington, Cal			65	18.3		var.								0	0	sm'h		fine.
Tamega, Macao, China	30.30	769.6	52.7	11.5	78	n.			6		10			0	0			overcast.
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.93	760.2	65	18.3	100	sse.			2		10							foggy.
H. M. S. Heroine, Magellan Strait, Patagonia	29.19	741.4	49	9.4	100	wnw.			6		10	wnw.				sm'h		squally.
H. M. S. Kingfisher, S. 9° 51′, W. 114° 26′	29.95	760.7	77	25.0		e.			3		6					4	e	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	29.79	756.7	60.3	19.1	94	nnw.			1		10					sm'h		showery.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.93	760.2	62	16.7		ene.			1							1	nne.	d. clouds
H. M. S. Rocket, S. 46° 30′, W. 61° 20′	29.45	748.0	55	12.8	93	sw.			4		4	ssw.				4	wnw.	squally.
H. M. S. Sylvia, Havergal Bay, Patagonia	29.26	743.2	45.5	7.5	84	ssw.			4–6		10							raining.
U. S. S. Essex, Callao, Peru	29.91	759.7	66	18.9	89	ssw.			1		10							misty.
U. S. S. Iroquois, S. 37° 23′, W. 96° 11′	30.26	768.6	70	21.1	90	wsw.			6		8		w.			mod.	w.	fair.
U. S. S. Onward, Callao, Peru*†	30.02	762.5	64	17.8	89	sw.			2		10		n.					foggy.
U. S. S. Pensacola, Valparaiso, Chili *	29.94	760.5	60	15.6	94	ese.			1		10			0	0	sm'h		misty.
British Merchant, S. 47° 51′, W. 127° 14′	29.66	753.4	52.5	11.4	86	n.			6		6							d. clouds.
Bk. Childwall, S. 31° 00′, W. 130° 45′ *	29.66	751.8	74	23.3		calm			0		10		unw.	22 h'r	22 h'r		s.	raining.
Bk. Edmund Phiney, S. 54° 23′, W. 75° 18′ †	29.26	743.2	48	8.9		w.			7		10		w.	hail	hail	h'vy	w.	raining.
Bk. Godeffroy, S. 33° 51′, W. 94° 07′ *	30.11	764.8	69.8	21.0	91	s.			2		3		s.	0	0	mod.	s; e.	fair.
S. St. Francis, S. 5° 31′, W. 127° 20′ †	29.91	759.7	76	24.4		ese.			6		8		se.	3 h'r	3 h'r	long	se.	squally.
S. S. Australia, Sydney, N. S. W *	29.72	754.9	75	23.9	90	nw.			1		1		ne.	0	0			clear.
S. S. City of Sydney, S. 34° 20′ E. 169° 32′†	29.87	758.7	70	21.1	80	s.			2		2		sw.	0	0	mod.	sw.	fair.
S. S. May Hulse, S. 56° 56′, W. 70° 11′	28.91	734.3	42	5.6	83	wnw.			8		10							rain & hail.
H. M. S. Gannet, S. 2° 12′, W. 79° 51′	29.89	759.2	77	25.0	86	calm			0		10							overcast.
Bk. Warden Law, S. 45° 00′ W. 89° 38′*	29.67	753.6				nw.			6		10		nw.	6 h'r	6 h'r	sm'h	sw.	covered.
S. Geo. Stetson, S. 51° —′ W. 76° —′ *†	29.10	739.1	53	11.7	86	wnw.			9		6		w.	hv'y	hv'y	high	wnw.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 6° 50′, E. 40° 00′	29.88	758.9	83	28.3		sse.			2–3		7	nne.				2	sse.	d. clouds
H. M. S. Eclipse, N. 30° 34′, E. 47° 49′	29.84	757.9	61	16.1		wnw.			1		9	wsw.						d. clouds
H. M. S. London, Zanzibar, Zanzibar	29.85	758.2	83	28.3		se.			1		5	se.				1	ese.	threatening.
H. M. S. Woodlark, Chakbar Bay, Arabia	30.02	762.5	68.5	20.3	84	wsw.			3		3	wsw				2	w.	d. clouds.
S. S. Galatia, N. 10° 05′, E. 83° 28′ †	29.87	758.7	79.3	26.3	93	ne.			4		0			0	0	sm'h		clear.
S. Sacramento, S. 44° 27′, E. 78° 20′ *†	30.27	768.8	57	13.9	93	nne.			5		10			0	0	sm'h		dense fog.

International Chart I. February 25, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B.Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 26, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.48	774.1	63.7	17.6	78	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malaterre.
Algiers	.....	.....	30.45	773.5	57.6	14.2	78	ene.	.....	.....	1	.....	0	.....	.....	0	0	clear	Thève.
La Calle	.....	.....	30.38	771.7	60.4	15.8	79	nw.	.....	.....	2	.....	3	.....	.....	0	0	pretty fair	Fonfréde.
Tunis	.....	.....	30.34	770.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.45	773.4	64.8	18.2	73	nw.	.....	.....	2	.....	2	.....	.....	0	0	fair	Pérès.
Tebessa	.....	.....	30.43	773.0	58.6	14.8	52	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dognon.
Geriville	.....	.....	.....	.....	61.5	16.4	19	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	Forfert.
Laghouat	.....	.....	30.42	772.7	59.0	15.0	45	nne.	.....	.....	2	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.41	772.4	72.3	22.4	19	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.76	755.9	29.85	758.2	64.0	17.8	87	calm	0	0	.....	.....	2	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.68	753.8	30.24	768.0	58.4	10.2	30	ne.	.....	.....	6	.....	0	.....	.....	0	0	.....	Prof. Ivan Stezir.
Cracow, I. R Observatory	29.38	746.2	30.19	766.7	32.9	0.5	96	nw.	15.0	6.7	.....	.....	10	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.13	740.0	30.05	763.3	33.8	1.0	95	nw.	.....	.....	4	.....	10	.....	.....	0.248	6.3	.....	Julius Mikolik.
Gratz	29.00	736.5	30.28	769.1	44.6	7.0	44	nw.	.....	.....	5	.....	3	.....	.....	0.024	0.6	.....	Andreas Rospini.
Hermannstadt	28.46	722.8	29.93	760.3	35.8	2.1	93	nnw.	.....	.....	2	.....	10	.....	.....	0.181	4.6	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	29.10	739.0	30.52	775.1	34.5	1.4	93	nw.	.....	.....	6	.....	10	.....	.....	0.059	1.5	snowing	The Staff.
Lemberg	28.86	733.1	29.89	759.1	32.9	0.5	83	ne.	.....	.....	4	.....	10	.....	.....	0.142	3.6	.....	Dr. T. Stanecki.
Neu Schmecks	26.74	679.3	30.34	770.6	24.8	— 4.0	91	n.	.....	.....	3	.....	10	.....	.....	0.335	8.5	.....	Dr. V. von Szontagh.
Pola	30.10	764.5	30.25	768 4	52.9	11.6	78	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.45	748.0	29.91	759.8	35.6	2.0	82	n.	.....	.....	3	.....	9	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.81	757.2	30.10	764.5	42.3	5.7	51	w.	.....	.....	6	.....	6	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.10	764.5	30.20	767.0	49.3	9.6	76	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Royal Academy.
Vienna	29.60	751.9	30.35	770.8	41.7	5.4	40	nw.	.....	.....	6	.....	1	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.24	768.1	30.34	770.6	45.2	7.3	73	w.	3	1.3	.....	.....	3	.....	.....	0.030	0.8	blue sky	W. Boswell
Armagh, Observatory	30.39	771.9	30.64	778.2	44.3	6.8	77	ssw.	15	6.7	.....	.....	9	.....	.....	.....	.....	overcast	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.58	776.7	45.8	7.7	75	w.	6	2.7	.....	.....	6	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	30.01	762.2	30.56	776.2	39.8	4.3	97	sw.	6	2.7	.....	.....	10	.....	.....	.....	.....	foggy	Thomas Mackereth.
Bradford, Yorkshire	30.12	765.0	30.51	774.9	45.7	7.6	79	sw.	.....	.....	2	.....	7	.....	.....	0	0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	81.0	27.2	68	ne.	.....	.....	3	.....	2	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C
Cardington	30.51	774.9	30.62	777.7	41.4	5.2	92	sw.	.....	.....	0.4	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	30.51	774.9	30.64	778.2	47.9	8.8	74	calm	.....	.....	0	.....	7	.....	.....	.....	.....	gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	30.40	772 1	30.64	778.2	45.8	7.7	84	sse.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.46	697.5	29.60	754.1	83.0	28.3	54	e.	.....	.....	1	.....	5	.....	.....	.....	.....	blue sky	Corpl. F. Milner, A. H. C.
Freetown	29.65	753.1	29.88	758.9	89.0	31.7	88	sw.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	30.44	773.2	30.48	774.2	45	7.2	84	sw.	.....	.....	2	.....	8	.....	.....	0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.34	770.6	30.40	772.1	63.0	17.2	94	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	30.24	768.1	30.45	773.4	43.2	6 2	79	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.47	773.9	30.65	778.5	41.5	5.3	91	sw.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	30.37	771.4	30.68	779.3	42.8	6.0	89	se.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	A. Collenette, F. M. S.
Kew, Observatory	30.62	777.7	30.66	778.7	41.6	5.3	93	sw.	7	3.1	.....	.....	10	.....	.....	.....	.....	misty	The Staff.
Leicester, Museum	30.33	770.4	30.60	777.2	40.0	4.4	92	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	30.10	764.5	30.18	766.6	60.0	15.6	72	nw.	.....	.....	2	.....	4	.....	.....	0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.13	765.3	30.17	766.3	76.0	24.4	76	se.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	30.05	763.3	30.60	777.2	40.0	4.4	92	s.	.....	.....	2	.....	10	.....	.....	.....	.....	misty	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	30.41	772.4	30.63	778.0	42.0	5.6	89	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	misty	The Staff.
Plymouth	30.56	776.2	30.64	778.2	46.4	8.0	89	se.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	30.10	764.5	30.20	767.1	46.2	7.9	80	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.66	753.4	29.73	755.1	42.4	5.8	61	sw.	.....	.....	1	.....	9	.....	.....	blank	blank	d. clouds	W. H. Lyne.
Sheffield	30.25	768.3	30.54	785.7	47.9	8.8	81	sw.	.....	.....	2	.....	0	.....	.....	0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.47	773.9	30.50	774.7	42.8	6.0	86	wsw.	.....	.....	3	.....	10	.....	.....	0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.56	776.2	44.0	6.7	75	w.	13	5.8	.....	.....	10	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Stratfield Turgiss	30.45	773.4	30.67	779 0	44.3	6.8	84	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	foggy	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.61	777.5	30.66	778.7	52	11.1	72	se.	.....	.....	6	.....	6	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.51	774.9	30.53	775.4	50.5	10.3	74	s.	14	6.3	.....	.....	10	.....	.....	.....	.....	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.77	756.1	30.16	766.1	57.2	14.0	69	nw.	24.8	11.1	.....	o	3 n	.....	nw.	o	o	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	29	— 1.7	.....	calm	o	o	.....	4 ck	o	.....	.....	o	o	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.39	746.5	29.43	747.5	36	2.2	84	nw.	5	2.2	.....	.....	10 s	.....	calm	0.555	14.1	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.39	746.5	29.45	748.0	29	— 1.7	70	w.	11	4.9	.....	2 k	2 ks	w.	w.	0.43	10.9	fair	G. A. Blair.
Cornwall	29.61	752.1	29.81	757.2	19.3	— 7.1	89	w.	.....	.....	1	.....	10 s	.....	.....	0.039	1.0	d. clouds	Jas. Smith, M. A.
Dalhousie	29.40	746.7	29.45	748.0	25.0	— 3.9	.....	w.	.....	.....	3	o	o	.....	.....	o	o	blue sky	H. A. Johnson.
Father Point, Quebec*	29.45	748.0	29.48	748.8	22	— 5.6	96	nw.	40	17.9	.....	2 k	5 k	nw.	nw.	o	o	clearing	J. McWilliams.
Fort Garry, Manitoba*	29.73	755 1	30.72	78c.3	—17	—27.2	65	nw.	5	2.2	.....	.....	hz.	.....	.....	o	o	hazy	James Stewart.
Fredericton	29.49	749.0	29.56	750.8	29.0	— 1.7	62	nw.	12	5.4	.....	o	1 s	.....	.....	0.430	10.9	blue sky	Prof. Harrison, L. L. D.
Granton	28.95	735.3	30.15	765.8	13.5	—10.3	91	nw.	9	4.0	.....	.....	10 n	.....	.....	0.600	15.2	snowing	Jas. Grant.
Halifax, N. S*	29.35	745.5	29.48	748.8	36	2.2	100	calm	o	o	.....	.....	10	.....	.....	1.630	41.4	light rain	A. Allison.
Hamilton	29.66	753.4	30.08	764.0	21.1	— 6.1	86	sw.	.....	.....	1	10 cs	o	w.	.....	o	o	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.57	751.1	29.93	760.2	19	— 7.2	76	w.	11	4.9	.....	.....	10 k	.....	nw.	0.13	3.3	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.57	751.1	29.79	756.7	18	— 7.8	76	w.	14	6.3	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	C. H. McLeod, C. E.
Ottawa	29.59	751.6	29.85	758.2	17.7	— 7.9	87	se.	.....	.....	1	.....	10 ks	.....	.....	0.05	1.3	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.30	744 2	30.06	763.5	10	—12.2	80	w.	6	2.7	.....	.....	10 n	.....	sw.	0.14	3.6	cloudy	Rev. R. Mosley.
Peterboro	29.24	742.7	30.04	763.0	15.6	— 9.1	100	w.	.....	.....	2	o	3 ks	.....	.....	o	o	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.36	745.7	30.10	764.5	20	— 6.7	100	sw.	6	2.7	.....	.....	10 n	.....	.....	0.17	4.3	light snow	H. Morgan.
Port Stanley, Ontario	29.42	747.3	30.11	764.8	22	— 5.6	87	w.	16	7.2	.....	.....	10 n	.....	w.	0.02	0.5	cloudy	M. Payne.
Quebec, Quebec*	29.32	744-7	29.66	753.4	16	— 8.9	83	w.	.....	.....	1	2 c	o	w.	.....	0.33	8.4	fair	Capt. Ashe, R. N
Rockliffe, Ontario*	29.47	748.5	29.97	761.2	0	—14.4	96	nw.	3	1.3	.....	5 c	o	nw.	.....	0.10	2.5	fair	W. H. McIntyre.
Saugeen, Ontario*	29.30	744 2	30.07	763.8	18	— 7.8	96	w.	15	6.7	.....	.....	10 s	.....	.....	0.30	7.6	heavy snow	
St. Andrews, N. B	29.52	749.8	29.57	751.1	29	— 1.7	83	nw.	7	3.1	.....	o	o	.....	.....	0.17	4.3	clear	
St. John, N. B	29.39	746.5	29.56	750.8	30	— 1.1	78	n.	10	4.5	.....	o	o	.....	.....	o	o	blue sky	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.84	757.9	26.6	— 3.0	.....	sw.	.....	.....	6	.....	.....	.....	.....	0.39	9.9	.....	The Commandant
Stratford	28.75	730.2	30.14	765.5	14.5	— 9.7	91	nw.	12	5.4	.....	.....	10 s	.....	.....	0.300	7.6	overcast	C. J. Macgregor, M. A.
Sydney, C. B*	29.46	748.3	29.52	749.8	39	— 3.9	96	s.	30	13.4	.....	.....	10 n	.....	.....	0.84	21.3	light rain	T. C. Hill, C. E.
Toronto, Ontario*	29.66	753.4	30.07	763.8	21	— 6.1	96	w.	15	6.7	.....	.....	10 n	.....	.....	0.04	1.0	cloudy	Magnetic Observatory.
Windsor	29.38	746.2	29.48	748.8	36.0	2.2	90	w.	8	3.6	.....	.....	10 n	.....	.....	o	o	overcast	Prof. W. H. Butler, M.A
Woodstock	29.01	736.8	30.15	765.8	17.1	— 8.3	96	calm	o	o	.....	.....	10 s	.....	.....	0.350	8.9	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.54	750.3	29.61	752.1	33	0.6	88	nw.	8	3.6	.....	8 ck	2 k	w.	nw.	1.15	29.2	fair	Lt. F. E. Wilmot, R.N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction Upper.	Clouds. Direction Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mil.	Inch.	Mil.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mil		
Cape Colony.																			
Cape St. Francis Lt. House	29.79	756.7	29.82	757.4	70.0	21.1	88	wsw.	15.0	6.7	.....	6 c	0	.....	.....	0	0	clear	John Duthie.
Springbok Fontein	27.85	707.4	.....	.....	86	30.0	48	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. T. Eustace.
Chinese (*Sub-stertes*).																			
Sung-shu-chwang	24.66	626.4	.....	.....	13.6	—10.2	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.37	771.3	30.48	774.1	34.7	1.5	97	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	R. P. Desurmont, S.J.
Zi-Ka-Wei, near Shanghai	30.51	774.9	30.54	775.6	35.4	1.9	82	ene.	3.4	1.5	.....	.....	9	.....	.....	0	0	.....	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.39	772.0	30.44	773.2	38.3	3.5	46	nw.	13	6	.....	.....	5	.....	.....	.....	.....	.....	Overseergent Fischer.
Fanoe	30.50	774.8	30.52	775.3	41.2	5.1	88	wnw.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.58	751.2	29.62	752.3	7.2	—13.8	92	ene.	.....	.....	2	.....	10	.....	.....	.....	.....	snowing	S. Kleinschmidt.
Ivigtut, Greenland	29.64	752.9	29.66	753.4	8.4	—13.1	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.69	754.1	29.74	755.3	—13.7	—25.4	.....	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.24	742.6	29.28	743.7	32.7	0.4	73	w.	.....	.....	9	.....	8	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.76	755.9	29.80	756.8	47.5	8.6	93	sw.	32.4	14.5	.....	.....	10	.....	.....	.....	.....	raining	Overloerer Bergh.
Vestervig	30.37	771.3	30.46	773.6	41.5	5.3	74	w.	.....	.....	2	.....	3	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	29.64	752.8	29.69	754.0	—14.4	—25.8	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	29.91	759.7	30.58	776.7	54.3	12.4	74	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	M. Labroue, Director.
Alençon, Normal School	30.11	764.9	30.67	778.9	43.9	6.6	97	se.	.....	.....	1	.....	8	nw.	nw.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	30.55	776.0	30.82	782 9	45.0	7.2	86	sw.	.....	.....	2	.....	10 n	.....	.....	0	0	covered	M. Fénéon, Command't.
Avignon, Normal School	30.23	767.9	30.31	769.9	55 0	12.8	40	nnw.	.....	.....	6	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	30.05	763.3	30.63	778.1	46.8	8.2	67	ne.	.....	.....	1	.....	2	.....	e.	0	0	lightly cl'dy.	M. Saillard, Director.
Beauvais, Normal School	30.41	772.4	30.69	779.4	47.5	8.6	70	se.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Frère Eugène Marié
Besançon, Normal School	29.57	751.0	30.49	774.4	52.9	11.8	63	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	30.26	768.7	30.53	775.5	50.4	10.2	69	nne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Rayet, Director.
Bourges, Normal School	30.08	764.1	30.66	778.7	44.6	7	71	n.	.....	.....	2	.....	8	.....	n	0	0	very cloudy	M. Malet, Director.
Brest, Naval Observatory	30.41	772.5	30.66	778.7	53.6	12.0	87	sw.	.....	.....	1	.....	0	.....	.....	0	c	.....	M. de Kermaréc, Dir.
Caen, Normal School	30.58	776.8	30.66	778.8	43.9	6.6	86	nnw.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.27	768.8	30.60	777.2	48.7	9.3	65	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Jadot, Director.
Charleville, Normal School	30.11	764.7	30.63	777.9	48.7	9.3	63	n.	.....	.....	3	.....	0	.....	.....	0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.20	741.7	30.62	777.8	40.5	4.7	81	n.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Allnard, Director.
Cluny, Normal School	29.72	754.9	30.63	778 0	50.0	10	54	ne.	.....	.....	2	.....	1	.....	.....	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.75	755.7	30.65	778.5	45.1	7.3	66	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.87	708.0	30.47	773.9	49.1	9.5	49	n.	.....	.....	1	.....	1	n.	n.	0	0	.....	M. Jeangirard, Director.
Grésque, du Rhone	29.11	739.3	30.24	768.6	59.5	15.3	39	nw.	.....	.....	1	.....	1	.....	nw.	0	0	.....	M. Kint, Director.
Grenoble, Normal School	29.72	754.8	30.52	775.1	40.0	7.8	77	nw.	.....	.....	2	0	2 8	.....	n.	0	0	slightly cl'dy	M. Abbard, Director.
Guéret	28.95	735.3	30.57	776.5	41.9	5.5	81	e.	.....	.....	2	0	5 kn	.....	e.	0	0	cloudy	M. Delorme, Dir.
Lamballe, Normal School	30.42	772.7	30.70	779.8	40.3	4.6	93	e.	.....	.....	1	.....	hz	.....	e.	0	0	hazy	M. Ollitrault, Director.
Lescar, Normal School	29.91	759.6	30.48	774.2	55.4	13.0	64	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.58	776.6	30.68	779.2	41.7	5.4	81	e.	.....	.....	1	.....	10	.....	.....	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.47	748.5	30.56	776.3	48.0	8.9	64	n.	.....	.....	2	0	0	.....	.....	0	0	clear	M. André, Director.
Mans, Normal School	30.35	771.0	30.67	779.1	45.9	7.7	92	se.	.....	.....	1	.....	5	.....	se.	0	0	cloudy	M. Piboën, Director.
Marseille, Observatory	29.98	761 5	30.25	768.4	59.2	15.1	57	nw.	.....	.....	1.2	.....	0	.....	.....	0	0	.....	M. Stephan, Director.
Montlouis	25.16	639.0	30.00	762.0	51.8	11.0	24	n.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	M. Caré for Dr. Fines.
Montpellier, Normal School	30.17	766 4	30.30	769.7	67.6	19.8	41	n.	.....	.....	3	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.75	755.6	30.55	776.0	46.4	8.0	61	n.	.....	.....	1	c	0	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	30.52	775 1	30.68	779.2	47.7	8.7	77	e.	.....	.....	1–2	0	8kn; n	.....	ene.	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	30.26	768.7	30.38	771.6	69.6	20.9	21	nw.	22.4	10.0	.....	.....	0	.....	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.53	547.0	.....	.....	34.5	1.4	.....	ne.	.....	.....	1	.....	1	.....	ne.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.37	745.9	30.46	773.6	50.0	10	58	n.	.....	.....	3	.....	2	n.	n.	0	0	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.54	648.6	.....	.....	36.0	2.2	58	ene.	.....	.....	4	.....	0	.....	.....	0	0	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	30.56	776.2	30.59	777.0	50.7	10.4	70	ne.	.....	.....	4	.....	2	.....	ne.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.34	770.7	30.56	776.2	50.0	10	79	e.	.....	.....	3	.....	0	.....	.....	0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.26	717.8	30.46	773.6	49.6	9.8	76	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.62	777.8	30.67	779.0	46.4	8	77	wnw.	.....	.....	1	.....	10	wnw.	.....	0	0	covered	M. Mouillot.
Saint Lô	.....	.....	.....	.....	42.1	5.6	78	.....	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Delaplanche, Dir.
Saint Maur, Observatory	30.50	774.6	30.66	778.8	46.9	8.3	74	ese.	.....	.....	1	.....	10	.....	ne.	0.008	0.2	.....	M. Renou, Director.
Toulouse, Observatory	29.80	757.0	30.54	775.6	54.1	12.3	68	w.	.....	.....	1	.....	1	w.	.....	0	0	clear	M. Baillaud, Director.
Tours	30.47	773.9	30.65	778.4	47.1	8.4	83	ene.	.....	.....	1	.....	10	.....	ne.	0	0	covered	M. de Tastes.
Versailles, Observatory	30.16	766.0	30.65	778.5	44.6	7.0	77	n.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director
Sub-stertes.																			
St. Martin du Hinx	30.40	772.1	30.55	775.9	48.4	9.1	81	nw.	2 0	0.9	.....	0	4 k	.....	ese.	0	0	.....	M. Cartier, Director.
German.																			
Ansbach	29.11	739.3	30.64	778.3	38.7	3.7	65	nw.	.....	.....	4	.....	5	nw.	.....	0	0	.....	Prof. Jnedt.
Bamberg	29.68	753.8	30.54	775.6	41.0	5.0	77	nw.	.....	.....	3	0	4 k	.....	nw.	0	0	.....	Prof. Dr. Hoh.
Berlin	30.32	770.2	30.48	774.1	41.7	5.4	52	nw.	.....	.....	3	.....	1	.....	.....	0.008	0.2	.....	Meteorological Institute.
Breslau	29.81	757.2	30.35	770.8	36.3	2.4	57	nnw.	.....	.....	6	.....	8	.....	.....	0.059	1.5	.....	Royal University [illegible]
Carlsruhe	30.17	766.2	30.65	778.5	44.6	7.0	65	n.	.....	.....	1	.....	1	n.	.....	0	0	.....	Albert Senz.
Cassel	29.80	757.0	30.52	775.1	43.2	6.2	60	nw.	.....	.....	4	.....	8	nw.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	30.23	767.9	30.61	777.5	47.3	8.5	56	nnw.	.....	.....	1	.....	2	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	29.13	739.8	30.62	777.8	43.9	6.6	63	ne.	.....	.....	3	.....	10	ne.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	30.47	773.9	30.56	776.2	40.6	4.8	79	nnw	.....	.....	3	.....	0	.....	.....	0	0	.....	E. Preller.
Kiel	30.50	774.7	30.52	775.1	40.3	4.6	57	wnw.	.....	.....	2	.....	1	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	30.10	764.4	30.54	775.6	39.9	4.4	53	nnw.	.....	.....	4	.....	6	n.	.....	0	0	.....	B. Leppig, Asst.
Magdeburg	30.33	770.4	30.53	775.5	42.7	5.7	58	w.	.....	.....	1	.....	1	nw.	.....	0	0	.....	Dr. Assmann.
Memel	30.13	765.4	30.18	766.6	33.8	1.0	72	n.	.....	.....	7	0	1 k	.....	.....	.....	.....	snow squall	Issermann.
Munich	28.70	728.9	30.60	777.1	39.4	4.1	66	nw	...	.....	2	.....	6	w.	.....	0	0	.....	Central Station.
Neufahrwasser	30.29	769.4	30.31	769 8	35.6	2.0	75	n.	.....	.....	4	.....	3	.....	.....	0.012	0.3	.....	A. Lothes.
Neustadt, Palatinate	30.09	764.3	30.63	777.9	45.3	7.4	66	ne.	.....	.....	2	.....	5	n.	.....	0	0	.....	Dicknether.
Stuttgart	29.63	752.7	30.57	776.4	43.3	6.3	66	nw.	.....	.....	1	.....	4	w.	.....	0	0	foggy	Prof. Dr. Schoder.
Wustrow	30.49	774.4	30.52	775.1	37.6	3.1	73	w.	.....	.....	5	0	5 8	.....	.....	0	0	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.39	746.6	29.79	756.7	52.0	11.1	.....	n.	.....	.....	1.0	0	3 k	.....	.....	inap.	inap.	.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.85	758.1	29.90	759.4	76.1	24.5	79	wsw.	25.0	11.2	.....	.....	6	sw	.....	0	0	d. clouds	
Deesa	29.37	746.1	29.84	758.0	85.1	29.5	14	wsw.	6.0	2.7	.....	.....	6	w.	.....	0	0	d. clouds	
Bombay	29.86	758.5	29.90	759.4	79.6	26.4	58	nw.	13.0	5.8	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.00	711.2	29.83	757.7	85.3	29.6	22	w.	22.0	9.8	.....	.....	1	w.	.....	0	0	d. clouds	
Belgaum	27.31	693.8	29.82	757.5	81.4	27.4	46	wsw.	12.0	5.4	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.17	740.9	29.93	760.2	70.7	21.5	37	calm	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	28.99	736.4	29.91	759.8	67.8	19.9	34	calm	0	0	.....	.....	8	w.	.....	0	0	.....	
Agra	29.32	744.8	29 89	759.2	78.7	25.9	23	s.	.....	.....	.....	.....	3	.....	sw.	0	0	d. clouds	
Nagpur	28.78	731.0	29.82	757.3	83.5	28.6	24	ssw.	4.0	1.8	.....	.....	8	nw.	.....	0	0	d. clouds	
Jubbulpore	28.51	724 2	29.88	758.8	77.0	25.0	31	ne.	6.0	2.7	.....	.....	3	.....	e.	0	0	d. clouds	
Lucknow	29.52	749.9	29.91	759.7	69.3	20.7	46	calm	3.0	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.58	751.4	29.90	759.6	70.4	21.3	46	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.73	755.1	29.92	760.0	68.5	20.3	63	n.	2.1	0.9	.....	.....	4	n.	n.	0.05	1.3	d. clouds	
Hazaribagh	27.86	707.7	29.93	760.1	64.7	18.2	58	calm	5.6	2.5	.....	.....	10	.....	w.	0	0	overcast	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Cuttack	29.80	757.0	29.88	759.1	75 0	23.9	71	ne.	10.0	4.5			10		e.	0.21	5.3		
Calcutta, Allpore	29.94	760.4	29.90	761.0	64.0	17.8	97	sw.	1.0	0.4			10		w.	1.31	33.3	drizzling	
Dhubri	29.80	757.0	29.92	760.1	67.2	19.6	61	calm	1.5	0.7			4	wsw.		0.03	0.8	d. clouds	
Chittagong	29.92	759.9	30.01	762.3	63.1	17.3	92	W.	3.3	1.5			10			0.05	1.3	drizzling	
Sibsagar	29.60	751.7	29.94	760.5	65.3	18.5	78	ne.	2.0	0.9			10	sw.	sw.	0.05	1.3	d. clouds	
Jeypore	28.43	722.2	29.88	759.0	78.7	25.9	20	wsw.	5.1	2.3			3	wsw.		0	0	d. clouds	
Bellary	28.34	719.8			94.0	34.4	19	nw.	2	0.9			0			0	0	blue sky	
Trichinopoly	29.63	752.6			91.0	32.8	25	se.	1	0.4			0			0	0	blue sky	
ITALIAN.																			
Udine	29.77	756.2	30.19	766.9	53.8	12.1	55	W.	4.3	1.9			0			0	0		Prof. Giovanni Clodig.
Milan	29.65	753.1	30.18	766.5	68.9	20.5	9	nw.	13.0	6.1			0			0	0		Prof. Schiapparelli.
Padua	30.10	764.6	30.22	767.5	47.7	8.7	71	sse.	0.7	0.3			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.31	744.5	30.24	768.1	57.2	14.0	43	nw.	1.8	0.8			0			0	0		Prof. F. F. Denza.
Genoa	30.00	762.1	30.20	767.1	60.4	15.8	50	sw.	3.8	1.7			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.33	719.5	30.30	769.5	57.2	14.0	25	W.			2		0			0	0		Prof. D. O. Bruno.
Pesaro	30.19	766.8	30.24	768.1	55.0	12.8	24	se.	0.3	2.8			0			0	0		Prof. Luigi Guidi.
Florence	29.95	760.7	30.21	767.3	52.2	11.2	73	W.			2		0			0	0		Prof. Costantino Pittei.
Leghorn	30.08	763.9	30.16	766.1	57.2	14.0	78	nnw	0.7	0.3			7	W.		0	0		Prof. P. Monte.
Rome	29.96	760.9	30.14	765.5	61.2	16.2	38	nw.	2.5	1.1			0			0	0		Prof. P. Tachini.
Lecce	29.79	756.6	30.05	763.2	51.1	10.6	23	nnw.	29.8	13.3			1	n.		0.035	0.9		Prof. C. de Giorgi.
Cosenza	29.18	741.1	30.10	764.4	52.5	11.4	70	nnw.	4.9	2.2			9	nw.		0	0		Prof. D. Conti.
Caglinri	30.02	762.5	30.22	767.5	60.1	15.6	75	nw.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.96	760.9	30.21	767.4	58.8	14.9	42	nw.	15.4	6.9			0			0	0		Prof. G. Caccintore.
Syracuse	30.09	764.2	30.13	765.4	57 9	14.4	66	nne.	6.3	2.8			3	nne.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.60	751.8	30.12	765.1	58.3	14.6	47	e.	3.8	1.7			1	ne.		0	0		Prof. F. Brioschi.
Stelvio	22.36	567.9			23.0	— 5.0	69	ne.			4		4			0	0	misty	Prof. P. F. Denza.
Valdobbin	22.39	568.7			32.7	0.4	47	e.			2		0			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.22	767.5	30.25	768.3	25.5	— 3.6	62	calm			0		10 ck		w.	0.004	0.1	cloudy	H. Hattori.
Awomori	30.15	765 8	30.19	766.8	23.8	— 4.6	91	w.	16.4	7.3		0	2 ks			0.051	1 3	fair	K. Ogawa.
Hakodate	30.16	766.1	30.17	766.4	21.5	— 5.8	100	n.	15.0	6.7			10			0	0	overcast	
Hamamatsu	30.07	763.8	30.10	764.5	46.5	8.1	42	nw.			2	0	0			0	0	clear	
Kagoshima	30.27	768.7	30.28	769.0	38.4	3.6	81	n.			2	0	0			0	0	clear	G. Miyanohara.
Kioto	29.97	761.3	30.15	765.8	30.1	2.3	87	nnw.	2.1	0.9		0	1 s			0	0	clear	M. Tojima.
Kochi	30.17	766.3	30.20	767.1	45.6	7.6	58	nw.	10.5	4.6		1	0	n.		0	0	clear	K. Kusunose.
Miasaka	30.21	767.2	30.23	767.9	45.8	7.7	64	w.			4	0	4 ks	w.	s	0	0	fair	K. Masusaki.
Nagasaki, I. M. Obs'y	30.11	764.7	30.32	770.1	39.6	4.2	70	n.	1.2	0.5		0	0			0	0	clear	S. Takehayashi.
Niigata	30.24	768.1	30.27	768.8	31.2	— 0.4	77	nne.	8.3	3.7			10 n			0.100	2.5	light snow	M. Morita.
Nobiru	30.11	764.7	30.12	765.1	31.3	— 0.4	100	n.	4.6	2.1		0	4 s			0	0	fair	H. Midzushina.
Numazu	30.03	762.9	30.07	763.8	43.3	6.3	76	e.			4	6 c;ck	0	s.		0	0	fair	R. Kaneda.
Osaka	30.15	765.8	30.16	766.2	42.0	5.6	79	nnw.	3.7	1.6		3 cs	6 s			0	0	cloudy	H. Omura.
Sakai	30.24	768.1	30.25	768.4	39.0	3.9	68	nw.			2		10 ks		nw.	0.449	11.4	cloudy	K. Yamawchi.
Supporo					15.8	— 9.0	67	nw.	14.0	6.3			10			0.005	0.1	covered	
Tokei Obs'y, Yeddo	30.02	762.6	30.10	764.6	40.4	4.7	97	nw.	7.7	3.4			10 n			0.106	2.7	raining	The Staff.
Wakayama	30.12	765 1	30.18	766.5	43.1	6.2	69	nw.	9.0	4.0		10 ck;cs	0	w.		0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.79	756.7	29.97	761.2	80.0	26.7	65	ese.	21.0	9.4		0	8 ks;n		se.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Altata					45	7.2	100	e.	7.4	3.3								foggy	H. Diaz Pena.
Guanajuato	23.73	602.7	29.95	760.7	47.8	8.8	87	e.	12.4	5.7			10 kn			0.919	23.3	covered	Prof. Vicente Fernandez.
Leon	24.39	619.5	30.15	765.8	52.2	11.2	90	n.			1		10 n			0.246	6.2	covered	Prof. M. Leal.
Mazatlan	29.77	756.2	30.04	762.9	53.5	11.9	93	wnw.	1.6	0.8		0	0			0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	588.2	30.25	768.3	47.8	8.8	90	calm	0	0			10 kn			0.225	5.7	covered	The Staff.
Morelia	24.18	614.2	30.05	763.3	50.0	10.0	73	e.			1	2 c	0 k	s.	s.	0.693	17.6	cloudy	M. Tena, M. D.
Pabellon	24.04	610.6	30.16	766.0	57.67	10.07	82	calm	0	0			10 kn		ese.	0.070	1.7	raining	
Puebla, Catholic Institute	23.43	595.0	30.30	769.5	45.8	8.2	69	calm	0	0			10		sw.	0	0	covered	Prof. P. Spina.
Zacatecas	22.00	574.0	30.40	772.1	41.0	5.0	87	e.	8.0	3.9		5 c	4 ck	sw.	e.	0	0	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.07	779.1	30.07	779.1	48.9	9.4		ssw.			2					0	0		
Groningen	30.50	776.1	30.01	777.5	45.1	7.3		nw.			1					0	0		
Helder																0	0		
Hellevoetsluis	30.07	778.9	30.07	778.9	49.6	9.8	70	sw.			1					0.008	0.2		
Utrecht	30.62	777.8	30.07	779.0	43.0	6.1	91	nw.			2		8			0	0	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.90	759.5			78.4	25.8	80	n.	0.5	0.2			2			0	0		Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.26	769.1	30.34	770.7	35.6	2.0	93	sse.	13	6			10			0.906	23.0		
Brono	29.89	759.1	29.93	760.1	31.6	— 0.2	89	sw.			4		10			0.354	9.0	snowing	
Christiania	30.18	766.6	30.34	770.5	33.8	1.0	58	wsw.	4	2			10			0	0		
Gjæsvær	29.72	755.0	29.75	755.6	28.9	— 1.7		n.			2		10						
Lodingen	29.88	759.0	29.93	760.2	28.0	— 2.2	71	calm			0		8			0.539	13.7		
PORTUGUESE.																			
Angra, Azores	30.14	765.6	30.30	769.6	61.7	16.5	96	se.	18.6	8.3			5			0	0		Dr. J. A. Sampaio.
Campo' Major	29.40	746.7	30.39	771.8	70.9	21.6	44	calm	0	0			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.26	768.6	30.35	770.8	64.4	18.0	71	calm	0	0			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.10	764.4	30.40	773.6	62.1	16.7	55	nne.	9.8	4.4			0			0	0		The Staff.
Ponta Delgada, Azores	30.29	769.4	30.36	771.2	62.2	16.8	90	sse.	7.4	3.3			3	nw.		0.988	25.1		
Saint Paul de Loando	29.60	751.7	29.79	756.7	82.2	27.9	95	nw.	1.3	0.6			7	se.		0	0		
Serra da Estrella	25.69	652.4	30.38	771.6	58.8	14.9	24	s.	1.3	0.6			0			0	0		
RUSSIAN.																			
Akmolinski	29.04	737.5	30.23	767.8	5.0	—15 0	73	sse.	7	3		0	1 s			0	0		Major K. Lasarew.
Archangel	29.35	745.8	29.37	746 0	23.7	— 4.6	90	nw.	9	4			10			blank	blank		Capt. Sseliwerstow.
Ashurada	29.90	761.0	29.87	758.6	48.7	9.3	82	nw.	4	2		0	1 k			0	0		
Astrakhan	29.95	760 7	29.87	758.6	28.4	— 2.0	92	ene.	4	2			10			0	0	heavy cl'ds.	Capt. Wisganow.
Baku	29.90	759 5	29.85	758.3	40.3	4.6	90	calm	0	0		0	8 n			0.012	0.3		
Barnaul	29.84	757.8	30.39	771.9	7.2	—13.8	72	calm	0	0			0			0	0		Meteorological Obs'y.
Bielosersk	29.03	737.3	29 81	749.5	30.2	— 1.0	77	W.	2	1			10 s;n			blank	blank		
Dorpat	29.59	751 0	29.85	758 1	25.2	— 3.8	80	nw.	10	7			10 n			0	0		Observatory.
Ekaterinburg	28.96	735.5	29.98	761.5	19.8	— 6.8	63	sw.	9	4		5 c;cs	0			0	0		Meteorological Obs'y.
Elisawetgrad	29.22	742 3	29.69	754.1	29.8	— 1.2	88	ese.	7	3			10 n			blank	blank		
Irkutsk	28.71	729 3	30.54	775.6	6.3	—14.3	69	calm			0		2			0	0		
Kasalinsk	29.54	750.2	29.71	754.7	10.2	— 8.8	72	ese.	9	4		4 c	0						
Kasan	29.50	750.9	29.85	758.3	16.9	— 8.4	83	sse.	18	8			10			inap.	inap.	light snow	Observatory.
Kem	29.52	749.8	29.57	751.1	27.1	— 2.7	72	nw.	31	14		0	6 k			0	0		
Kertch	29.77	756.1	29.79	756.6	32.4	0.2	85	calm	0			0	7 n			0	0		Lagorio & Sastyres.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Kieff	28.98	736.0	29.63	752.7	30.7	— 0.7	92	n.	4	2			10 n			0.406	10.3	snowing	Observatory.
Koslov	29.11	739.5	29.67	753.6	26.1	— 3.3	94	ssw.	18	8			10 s			0.047	1.2	light snow	
Liban	30.12	765.1	30.15	765.7	33.6	0.9	80	nnw.	20	9			0			0	0		E. Quass.
Lugan	29.51	749.6	29.71	754.5	30.2	— 1.0	72	ssw.	9	4			9			0	0		Meteorological Obs'y.
Moscow	29.06	738.2	29.56	750.7	32.9	0.5	73	w.	3.4	1.5			10 ks			0.039	1.0		Meteorological Obs'y
Nikolaiev	29.65	753.1	29.72	755.0	38.3	3.5	77	sw.	9	4		8s	6 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.78	756.3	29.86	758.5	5.0	—15.0	77	calm	0	0			10			0.087	2.2		Iwanow.
Pekin, China	30.29	769.4	30.44	773.2	33.8	1.0	36	calm	0	0		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.52	749.8	29.88	759.0	40.3	4.6	53	ne.	3.4	1.5		10 c	0			0	0		
Petrozavodsk	29.34	745.2	29.55	750.5	26.6	— 3.0	85	nnw.	16	7			9 k			0.173	4.4		Dr. Bergmann.
Pinsk	29.32	744.8	29.84	757.9	33.8	1.0	75	nnw.	34	15			10 s			0.043	1.1	snowing	
Poti	29.74	755.3	29.76	755.8	47.8	8.8	76	wnw.	4	2		0	8 n			0.268	6.8		
St. Petersburg	29.65	753.1	29.07	753.5	25.5	— 3.6	82	nnw.	9	4			10			inap.	inap.	light snow	Central Physical Obs'y.
Samarkand	27.45	697.2	29.98	761.4	40.1	4.5	79	calm	0	0			10 n					raining	
Semipalatinsk	29.07	753.6	30.39	772.0	4.6	—15.2	77	e.	9	4			0			0	0		Major Lasarew.
Sevastopol	29.54	750.2	29.80	756.9	38.7	3.7	62	ssw.	11	5			10 n			0.004	0.1		
Staroi Bykhov	29.26	743.3	29.74	755.4	31.6	— 0.2	76	n.	16	7			10 n			0.024	0.6	light snow	
Tashkend	28.28	718.3	29.99	761.8	41.0	5.0	48	ne.	9	4		8s	7 k			0	0	light clouds	Terch, A. M.
Tiflis	28.34	719.9	29.75	755.6	52.0	11.1	46	s.	2	1		8 ck	0			0	0		Physical Observatory.
Vernoe	27.39	695.7	30.00	763.4	19.2	— 7.1	77	w.	4	2		0	0						
Viatka	29.10	739.1	29.78	756.3	9.3	—12.6		sse.	7	3			8			0	0		
Vladivostock	30.24	768.0	30.30	769 7	11.5	—11.4	22	calm	0	0			0			0	0		
Warsaw	29.67	753.6	30.11	764.9	34.2	1.2	75	nnw.	25	11			9			0	0	heavy cl'ds.	Astronomical Obs'y.
Wilna	29.49	749.0	29.93	760.1	30.4	— 0.9	67	nnw.	18	8			8			0	0	heavy cl'ds.	Berg, Assistant.
Yeniseisk	30.08	764.0	30.40	772.1	3.0	—16.1	76	calm	0	0			0			0	0		M. O. Marks.
Scottish.																			
Monach Lt			30.27	768.8	48	8.9	92	ssw.			6		10			0	0		J. Youngclauss.
North Unst			30.00	763.5				sw.			6		10						Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.27	768.8	30.38	771.6	61.7	16.5	60	sw.	2.0	0.9		0	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.50	774.6	30.56	776.1	61.3	16.3	60	nw.	2.7	1.2		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.48	697.9	30.45	773.5	59.0	15.0	25	ne.	5.4	2.4		c	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.20	716.2	30.48	774.2	60.3	15.7	41	e.	2.7	1.2		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.26	768.5	30.42	772.6	68.4	20.2	62	ene.	0.2	0.1		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.65	753.0	30.52	775.3	46.4	8.0	75	n.	2.5	1.1		0	0			0	0	clear	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.50	749.2	30.39	771.8	68.4	20.2	57	calm	0	0			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	30.00	762.0	30.06	763.4	77.6	25.3	64	ne.	4.4	2.0			0			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.30	769.7	30.40	772.2	68.2	20.1	32	ese.	11.0	4.9		0	0			0	0		Capt. O. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.03	762.8	30.12	765.1	74.8	23.8	77	e.	13.0	5.8		2 c	0	se.		0.165	4.2	clear	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	29.90	759.4	29.94	760.4	25.2	— 3.8	73	n.			2		0			0	0		
Umea	30.00	762.1	30.06	763.4	31.1	— 0.5	94	n.			2		6			0	0		
Hernosand	29.87	758.7	29.92	760.0	36.0	2.2	48	n.			2		1			0	0		
Stockholm	30.04	763.0	30.22	767.5	35.6	2.0	48	wnw.			4		0			0	0		
Wisby	30.15	765.8	30.21	767.3	34.9	1.6	93	nnw.			6		0			0	0		
Sub-series.																			
Upsala	30.11	764.9	30.20	767.1	34.0	1.1	70	nw.	9.4	4.2			1	n.		0	0		S. G. Fineman.
Swiss.																			
Geneva	29.07	738.3	30.51	775.0	47.5	8.6	66	n.			3		0			0	0	clear	The Observatory.
Turkish.																			
Constantinople			29.74	755.5	41.2	5.1	55	ese.	7	3.0			10		n.	0	0		The Observatory.
Valona			30.04	762 9	51.6	10.9		n.			2		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.72	754.8	48.9	9.4	78	s.			3		10 n		sw.	0.29	7.4		Prof. C. V. A. van Dyck.
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	29.85	758 2	29.94	760.5	32	0.0	63	nw.	7	3.1			10 s		nw.	0.05	1.3	cloudy	J. O. Barnes.
Alpena, Michigan	29.49	749.0	30.20	767.1	8	—13.3	76	w.	15	6.7			10 s			0.02	0.5	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.25	641.3	30.35	770 9	39	3.9	92	e.	3	1.3			10 s			0.03	0.8	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.56	700.0	30.60	777.2	20	— 6.7	58	sw	22	9.8		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.22	742 2	30.44	773.2	33.0	0.6	68	nw.	8	3.6		4 cs	0			0	0	fair	H. C. Smyth.
Atlantic City, New Jersey	30.05	763.3	30.06	763.5	33	0.6	50	w.	9	4.0			0			inap.	inap.	clear	Jas. M. Watson.
Augusta, Georgia	30.21	767.3	30.41	772.4	41	5.0	61	nw.	3	1.3		4 c	0	sw.		0	0	fair	John Henly.
Baltimore, Maryland	30.12	765.0	30.16	766.1	36	2.2	61	w.	9	4.0		0	0			0	0	clear	Geo. W Felger.
Barnegat, New Jersey	30.04	763.0	30.06	763.5	34.0	1.1	72	nw.	15	6.7		1 k	0			0.17	4.6	clear	G. A. Hill.
Behring Id., Behring Sea	29.92	760.0	29.94	760.5	35.0	1.7		se.	19	8.5			10 n			0.02	0.5	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	29.03	737.3	30.76	781.3	10	—12.2	80	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.60	701.0	30.60	777.2	25	— 3.9	64	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	27.22	691.4			25	— 3.9	64	w.	14	6.3		2 c	0	w.		0	0	clear	T. Gibson.
Bismarck, Dakota	28.73	729.7	30.71	780.0	11	—11.7	80	sw.	0	2.7		hz.	0			0	0	dense haze	Cyrus Cramer.
Block Island, Rhode Island	29.88	758.9	29.91	759.7	34	1.1	72	nw.	21	9.4		0	0			0.54	13.7	clear	J. T. Elker.
Boise City, Idaho	27.62	701 5	30.58	776.7	23	— 5.0	88	w.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.68	753.9	29.84	757.9	32.0	0.0	60	w.	11	4.9		0	3 8			0.43	10.9	clear	O. B. Cole.
Brownsville, Texas	30.36	771.1	30.41	772.4	54.5	12.5	55	n.	12	5.4			10 8		n.	0.01	0.3	cloudy	M. McCarty.
Buffalo, New York	29.28	743.7	30.08	764.0	21	— 6.1	76	sw.	16	7.2			10 8		sw.	0.01	0.3	cloudy	W. Finn.
Buford, Fort, Dakota	28.49	723.6	30.67	779.0	7	—13.9	80	calm	0	0		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.52	749.8	29.83	757.7	26.6	— 3.0	64	w.	13	5.8			10 8		w.	0.02	0.5	cloudy	D. N. Farnell.
Cairo, Illinois	30.10	764.5	30.52	775.2	37.8	3.2	64	nw.	12	5.4		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.18	766.6	30.20	767.1	40	4.4	57	nw.	20	8.9		8 ck	0	s.		0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.08	764.0	30.11	764.8	36.0	2.2	65	w.	40	17.9		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California																			J. J. McLean.
Cedar Keys, Florida	30.29	769.4	30.31	769.9	56	13.3	45	n.	19	8.5		4 c	5 ks		ne.	inap.	inap.	cloudy	F. W. Mixer.
Champaign, Illinois	29.60	751.8	30.47	773.9	23.0	— 5.0	73	nw.	13	5.8		0	0			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.25	768.3	30.31	769.9	47	8.3	56	nw.	6	2.7		6 c	3 8	w.	nw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.46	748.3	30.35	770 9	34.5	1.4	54	nw.	6	2.7		4 c	sk.	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.62	752.3	30.48	774.2	35.0	1.7	64	w.	2	0.9		1 cs	0	w.		0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.42	620.3	30.67	779.0	21.0	— 6.1	53	calm	0	0		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.64	752.8	30.39	771.9	15.1	— 9.4	73	nw.	8	3.6		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.12	765.0	30.14	765.5	36.5	2.5	66	nw.	17	7.6		0	0			0.01	0.3	clear	C. F. Dickens.
Cincinnati, Ohio	29.68	753.9	30.37	771.4	33	0.6	68	w.	8	3.6		0	5 8		w.	inap.	inap.	fair	R. B. Watkins.
Cleveland, Ohio	29.42	747.3	30.21	767.3	24.8	— 4.0	86	w.	15	6.7			10 n		w.	0.01	0.3	light snow	J. B. Newlin.
Coleman City, Texas																			L. Dorman.
Columbus, Ohio	29.38	746.2	30.28	769.1	27	— 2.8	77	w.	10	4.5		0	0			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.61	726.7	30.63	778.0	40.3	4.6	73	calm	0	0			10 8		e.	0	0	cloudy	J. McGlone.
Davenport, Iowa	29.82	757.4	30.52	775.2	17	— 8.3	67	nw.	11	4.9		0	0			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.52	648.2	30.48	774.2	35	1.7	82	ne.	8	3.6			10 s		ne.	0	0	threatening	J. Williams.
Dayton, Washington T'y	28.75	730.2	30.56	776.2	26	— 3.3	82	sw.	1	0.4		0	0			0	0	clear	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.77	654.5	30.69	779.5	18	— 7.8	87	calm	0	0		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.10	764.5	30.12	765.0	36	2.2	61	nw.	27	12.1		0	1 k			0.06	1.5	clear	T. S. Townsend.
Denison, Texas	29.79	756.7	30.63	778.0	38.0	3.3	61	nw.	3	1.3		0	0			0	0	clear	J. W. Byram.
Denver, Colorado	25.18	639.6	30.70	779.8	25.5	— 3.6	62	s.	1	0.4		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.71	754.6	30.68	779.3	10	—12.2	58	nw.	8	3.6		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.43	747.5	30.18	766.6	23.8	— 4.6	92	w.	8	3.6			10 s		w.	0.07	1.8	cloudy	E. R. Brace.
Dodge City, Kansas	28.60	711.2	30.74	780.8	26	— 3.3	67	nw.	4	1.8		0	0			0	0	clear	V. P. Temple.
Dubuque, Iowa	29.75	755.6	30.51	774.9	11.2	—11.6	61	nw.	4	1.8		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.75	755.6	30.56	776.2	2	—16.7	72	w.	24	10.7		0	1 s			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.76	755.9	30.60	777.2	50.1	10.1	59	se.	1	0.4			10 n			0.07	1.8	light rain	F. Belford.
Eagle Rock, Idaho	25.72	653.3	30.62	777.7	— 2	—18.9	72	n.	2	0.9		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.54	750.3	29.61	752.1	29.0	— 1.7	72	w.	12	5.4		0	0			1.79	45.5	clear	D. C. Murphy.
Elliott, Fort, Texas	27.75	704.8	30.65	778.5	25	— 3.9	53	nw.	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.61	675.9	30.49	774.4	40.5	4.7	59	e.	8	3.6			10 s		e.	0.14	3.6	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.37	746.0	30.14	765.5	24	— 4.4	88	w.	15	6.7			10 s		w.	0.03	0.8	cloudy	Peter Wood.
Escanaba, Michigan	29.63	752.6	30.35	770.9	9.0	—12.8	55	w.	8	3.6		0	9 s		w.	0.03	0.8	cloudy	George Heathcote.
Fredericksburg, Texas	28.72	729.5	30.52	775.2	43	6.1	68	n.	3	1.3		10 cs	0			0	0	cloudy	Frank Halwegler.
Galveston, Texas	30.45	773.4	30.50	774.7	49	9.4	71	ne.	24	10.7			10 ks			0	0	cloudy	E. O'C. Mackernsy.
Grand Haven, Michigan	29.59	751.6	30.30	769.6	19.0	— 7.2	84	w.	19	8.5			10 s		w.	0.01	0.3	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.43	645.9	30.29	769.4	37	2.8	82	e.	16	7.2		5 k	0	e.		0.16	4.1	fair	Robert O. Lord.
Hatteras, North Carolina	30.21	767.3	30.23	767.8	44	6.7	60	nw.	16	7.2		6 c	hz.	ne.		0	0	fair	R. M. Crawford.
Helena, Montana	26.25	666.7	30.65	778.5	21	— 6.1	87	calm	0	0		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.59	751.6	30.64	778.2	33	0.6	88	n.	3	1.3		0	0			0	0	clear	J. P. Sherry.
Huron, Dakota	29.25	742.9	30.77	781.5	2	—16.7	46	nw.	1	0.4		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.54	750.3	30.39	771.9	27.0	— 2.8	64	nw.	6	2.7		0	hz.			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.46	773.7	30.49	774.4	50.0	10.0	61	n.	22	9.8			10 s			0	0	cloudy	I. A. Reed.
Jacksboro, Texas	29.38	746.2	30.62	777.7	34	1.1	71	calm	0	0		0	0			0	0	clear	D. J. Carr.
Jacksonville, Florida	30.30	769.6	30.35	770.9	51	10.6	33	nw.	7	3.1		2 cs	7 s		nw.	0	0	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.97	710.4	30.65	778.5	12	—11.1	64	calm	0	0		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.86	758.4	30.56	776 2	24.0	— 4.4	61	nw.	10	4.5		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.12	765.0	30.14	765.5	72.5	22.5	90	e	6	2.7		2 c	2 ks	w.	e.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.18	766.6	30.20	767.1	41	5.0	48	nw.	14	6.3		1 c	1 s	nw.		0.08	2.0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	29.37	746.0	30.45	773.4	28	— 2.2	86	sw.	3	1.3		0	0			trap	trap	clear	J. A. Cody.
La Crosse, Wisconsin	29.70	754.4	30.54	775.7	5	—15.0	76	nw.	7	3.1		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.78	756 4	30.73	780 5	26	— 3.3	76	n.	13	5.8		5 k	0	n.		0	0	fair	A. W. Browne.
Lewiston, Idaho	29.75	755.6	30.62	777.7	32.5	0.3	73	e.	6	2.7		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	30.24	768.1	30.57	776.5	39	3.9	72	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.75	755.6	30.15	765.8	58	14.4	42	ne.	10	4.5		5 c	0	w.		0	0	fair	T. S. Collins.
Louisville, Kentucky	29.78	756.4	30.37	771.4	34	1.1	60	w.	10	4.5		0	3 k		w.	0	0	clear	L. M Dey.
Lynchburg, Virginia	29.52	749.8	30.24	768.1	35	1.7	35	w.	8	3.6		0	0			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.55	750.6	30.25	768.3	9.0	—12.8	76	w.	14	6.3			10 s		w.	0.28	7.1	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.25	768.3	30.26	768.6	43.0	6.1	60	nw.	16	7.2		9 cs	0	sw.		0.04	1.0	cloudy	William Daly.
Madison, Wisconsin	29.36	745.7	30.45	773.4	8	—13.3	76	w.	10	4.5		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.78	654.8	30.32	770.1	31	— 0.6	33	w.	4	1.8		6 k	0	w.		0	0	fair	F. Burke.
McKavett, Fort, Texas	28.27	718.0	30.65	778.5	42	5.6	60	ne.	5	2.2			10 s			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.53	750.0	30.31	769.9	10	—12.2	80	nw.	14	6.3			10 n			0.05	1.3	light snow	J. Gilligan.
Memphis, Tennessee	30.20	767.1	30.55	776.0	39	3.9	82	w.	1	0.4		0	0			0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.60	751.8	30.40	772.1	12	—11.1	61	n.	10	4.5		0	0			0	0	clear	W. Line.
Missoula, Fort, Montana	27.24	691.9	30.67	779.0	19	— 7.2	58	ne.	1	0.4		0	0			0	0	clear	I. H. Young.
Mobile, Alabama	30.43	772.9	30.47	773.9	45	7.2	41	ne.	15	6.7			10 s		n.	0	0	cloudy	C. A. Read.
Montgomery, Alabama	30.23	767.8	30.47	773.9	40	4.4	50	w.	5	2.2		hz.	0			0	0	dense haze	J. B. McLaughlin.
Moorhead, Minnesota	29.62	752.3	30.72	780.3	—15	—26.1	100	calm	0	0		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.19	741.4	30.26	768.6	33.0	0.6	62	sw.	12	5.4		0	9 s		w.	0.02	0.5	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.02	584.7	29.64	752.8	— 2.5	—19.2	100	nw.	80	35.8			fg.		nw.	0.53	13.5	dense fog	S. W. Beall.
Nashville, Tennessee	29.83	757.7	30.44	773.2	36.0	2.2	61	w.	10	4.5		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.80	756.9	29.92	760.0	31	— 0.6	47	w.	14	6.3		0	0			0.48	12.2	clear	J. H. Sherman.
New London, Connecticut	29.92	760.0	29.97	761.2	33	0.6	60	w.	8	3.6		3 k	0	w.		0.56	14.2	clear	J. G. Lynch.
New Orleans, Louisiana	30.40	772.1	30.46	773.7	48.8	9.3	34	n.	15	6.7			10 s		n.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	29.75	755.6	29.80	756.9	33.0	0.6	65	nw.	14	6.3		5 k	3 ks	nw.	sw.	0.66	16.8	cloudy	W. McGillivray.
New York, New York	29.83	757.7	30.02	762.5	32	0.0	60	w.	12	5.4		1 cs	0	w.		0.07	1.8	clear	J. B. Merrill.
Norfolk, Virginia	30.19	766.8	30.22	767.6	42	5.6	58	nw.	8	3.6		3 cs	0	nw.		0	0	clear	Wm. Davis.
North Platte, Nebraska	27.64	702.0	30.74	780.8	23.6	— 4.7	78	calm	0	0		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.31	769.9	30.35	770.9	29.0	— 1.7	88	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.48	748.8	30.75	781.0	17.1	— 8.3	78	n.	10	4.5		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska	30.42	772.7	30.44	773.2	—30.0	—34.4		wsw.	1	0.4		0	0			0	0	clear	P. H. Ray.
Oswego, New York	29.62	752.3	29.97	761.2	24.5	— 4.2	80	nw.	22	9.8			10 s		nw.	0.05	1.3	cloudy	J. G. Linsley.
Palestine, Texas	30.06	763 3	30.63	778.0	40.0	4.4	48	n.	6	2.7		6 cs	0	w.		0	0	fair	L. M. Pindell.
Pensacola, Florida	30.41	772.4	30.44	773.2	45.1	7.3	41	n.	14	6.3			10 s		n.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.98	761.5	30.09	764.3	36	2.2	53	w.	12	5.4		0	0			0.01	0.3	clear	E. M. Mattison.
Pike's Peak, Colorado	17.93	455.4	30.65	778.5	3	—16.1	66	n.			1	0	0			0	0	clear	H. Hall.
Ploche, Nevada	24.32	617.7	30.48	774.2	27.8	— 2.3	54	nw.	7	3.1		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.34	745.2	30.20	767.1	29.0	— 1.7	72	w.	14	6.3			10 s		w.	0.04	1.0	cloudy	W. A. Reid.
Poplar River, Montana	28.19	716.0	30.54	775.7				nw.			1	0	0			0	0	cloudy	W. D. Maxwell.
Port Eads, Louisiana	30.39	771.9	30.40	772.1	52.0	11.1	64	ne.	28	12.5			10 s			0	0	cloudy	H. B. Boyer.
Port Huron, Michigan	30.43	772.9	30.16	766.1	18.1	— 7.7	83	nw.	9	4.0			10 s			0.03	0.8	cloudy	W. O. Bailey.
Portland, Maine	29.68	753.9	29.73	755.1	30	— 1.1	52	w.	12	5.4		2 cs	0	w.		0.26	6.6	clear	W. W. Eichelberger
Portland, Oregon	30.28	769.1	30.34	770.6	43.6	6.4	87	e.	2	0.9		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					45	7.2	60	nw.	28	12.5		3 cs	3 ks	w.		0.06	1.5	fair	F. S. Coburn.
Prescott, Arizona	24.96	634.0	30.32	770.1	28.0	— 2.2	80	n.	2	0.9		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass.	29.80	756.9	29.82	757.4	31.5	— 0.3	68	w.	8	3.6		0	1 s			0.92	23.4	clear	P. T. Jenkins.
Punta Rassa, Florida	30.16	766.1	30.17	766.3	67.5	19.7	87	n.	8	3.6		7 c	3 ks	w.	ne.	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.89	759.2	30.26	768.6	48	8.9	77	n.	6	2.7		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.31	744.5	30.02	762 5	21	— 6.1	84	w.	16	7.2		10 k	0	w.		0.01	0.3	cloudy	E. W. McGann
Roseburg, Oregon	29.74	755.4	30.31	769.9	33.5	0.8	88	ne.	1	0.4		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	30.14	765.5	30.22	767.6	49.8	9.9	87	s.	2	0.9		6 c	0	w.		0	0	fair	J. A. Barwick
St. Louis, Missouri	29.92	760.0	30.56	776.2	30.0	— 1.1	88	nw.	12	5.4			10 s		nw.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.13	765.3	30.17	766.3	—14	—25.6	100	n	7	3.1		0	0			0	0	clear	A. P. Leavitt
St. Paul, Minnesota	29.65	753.1	30.59	777.0	1.0	—17.2	65	nw.	8	3.6		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.72	754.9	30.69	779.5	—14	—25.6	80	nw.	1	0.4		0	0			0	0	clear	O. B Dilley.
Salt Lake City, Utah	26.09	662.7	30.65	778.5	26	— 3.3	67	nw.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.84	757.9	30.56	776.2	47.0	8.3	42	n.	5	2.2		9 cs	0	n.		0	0	cloudy	T. J. Kenan.
San Diego, California	30.05	763.3	30.12	765.0	47.7	8.7	97	n.	1	0.4			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.52	749.8	30.24	768.1	24.4	— 4.2	80	w.	18	8 0			10 s		w.	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.00	762.0	30.03	762.7	33.0	0.6	68	nw.	18	8.0		9 k	0	w.		0	0	clear	B. A. Blundon.
San Francisco, California	30.14	765.5	30.21	767.3	53	11.7	83	n.	4	1.8		9 cs	0	w.		0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.51	597.1	30.59	777.0	32	0.0	57	s.	5	2.2		3 c	0	sw.		0	0	clear	H. U. Jones.
Savannah, Georgia	30.27	768.8	30.36	771.1	46	7.8	48	nw.	8	3.6		4 cs	0	w.		0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.74	679.2	30.59	777.0	29	— 1.7	97	calm	0	0		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.34	770.6	30.59	777.0	40	4.4	65	n.	4	1.8		0	5 s			0	0	fair	E. N. Meekins.
Sill, Fort, Indian Territory	29.36	745.7	30.67	779.0	35.5	1.9	74	h.	4	1.8		2 ck	0	w.		0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.47	621.5	30.32	770.1	30.5	2.5	81	calm	0	0			10 s			0	0	cloudy	N. D. Lane.
Sitka, Alaska	29.73	755.1	29.80	756.9	45.2	7.3	71	se.	20	8.9			10 ks		se.	1.38	35.1	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	30.12	765.0	30.62	777.7	32.5	0.3	88	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.27	768.8	30.31	769.9	43	6.1	60	n.	5	2.2		10 cs	0	w.		0	0	cloudy	O. Parker.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
United States.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.52	724.4	30.04	778 2	22.2	— 5.4	87	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	H. Clifford.
Springfield, Illinois.....	29.80	756.9	30.53	775.4	28.5	— 1.9	70	w.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	T. B. Jennings.
Springfield, Missouri.....	29.12	739.6	30.03	778.0	29.5	— 1.4	72	n.	8	3.6	.....	0	0	.....	.....	.0	0	clear.....	J. H. Bryce.
Starkville, Miss.....	30.03	762.7	30.53	775.4	38	3.3	53	w.	7	3.1	.....	4 c	2 s	sw.	.....	0	0	fair.....	C. Dill.
Stevenson, Fort, Dakota.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Schneider.
Stockton, Fort, Texas	27.40	695.9	30.53	775 4	43	6.1	60	se.	0	2.7	.....	.....	10 s	.....	e.	0	0	cloudy.....	A. J. Warren.
Thatcher's Island, Mass.....	29.77	756.1	29.83	757.7	28.5	— 1.9	70	nw.	17	7.6	.....	5 k	0	w.	.....	0.43	10.9	fair.....	G. Liebmann.
Thomas , Camp, Arizona.....	27.59	700.8	30.42	772.7	45	7.2	76	e.	.....	.....	1	3 k	2 s	.....	.....	0.12	3.0	fair.....	J. T. Fitzgerald.
Toledo, Ohio.....	29.49	749.0	30.23	767.8	27	— 2.8	70	w.	16	7.2	.....	0	8 k	.....	w.	inap.	inap.	cloudy.....	A. Buell.
Tucson, Arizona.....	27.70	703.6	30.18	766.6	50	10.0	66	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon.....	30.27	768.8	30.65	778.5	26	— 3.3	88	se.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	J. Daly.
Verde, Fort, Arizona.....	.....	.....	.....	.....	37	2.8	51	nw.	.....	.....	1	0	0	.....	.....	0	0	clear.....	O. L. Pease.
Vicksburg, Mississippi	30.28	769.1	30.55	776.0	40.5	4.7	61	n.	3	1.3	.....	7 cs	0	w.	.....	0	0	fair.....	James Kenealy.
Visalia, California.....	29.82	757.4	30.20	767.1	50.0	10.0	61	se.	4	1.8	.....	6 cs	0	.....	.....	0	0	fair.....	O. D. Stewart
Washakie, Fort, Wyoming.	24.91	632 7	30.67	779.0	— 2.8	—19.3	80	w.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	T. M. Ambler.
Washington, D. C.....	30.07	763.8	30.19	766.8	33.8	1.0	52	sw.	5	2.2	.....	1 k	c	w	.....	0	0	clear.....	B. M. Purssell.
West Las Animas, Colorado	26.56	674.6	30.09	779.5	18	— 7.8	70	w.	4	1.8	.....	c	0	.....	.....	0	0	clear.....	F. H. Brandenburg
Williamsport, Pa.....	29.47	748.5	30.10	764.5	28	— 2.2	54	nw.	16	7.2	.....	.....	10 ks	.....	nw.	0	0	cloudy.....	B. F. Hough.
Wilmington, N. Carolina...	30.25	768.3	30.31	769.9	46	7.8	54	n.	7	3.1	.....	.....	10 s	.....	w.	0	0	cloudy.....	Samuel A. Haney.
Winnemucca, Nevada.....	25 98	659 9	30.50	774.7	31.0	— 0.6	71	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota.....	29.30	744.2	30.72	780.3	8	—13.3	55	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona.....	29.96	761.0	30.11	764.8	61.5	16.4	36	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia.....	22.00	558.8	.....	.....	56.0	13.3	83	calm	0	0	.....	.....	10 s	.....	e.	0.02	0.5	foggy	Joaquin Gomez.
Kingston, Jamaica, W. I....	30.08	764.0	30.09	764.3	69	20.6	84	n.	1	0.4	.....	c	0	.....	.....	0.02	0.5	clear	Robert Johnston.
Paramaribo, S. A.....	30.02	762.5	30.02	762.5	78	25.6	86	e.	.....	.....	3	.....	8 ks	.....	e.	0.660	16.8	cloudy.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	746.2	29.93	760.2	81	27.2	76	calm	.....	.....	0	5 c	0	s.	.....	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.36	745.7	29.42	747.3	24	— 4.4	73	se.	.....	.....	3	.....	10 n	.....	.....	0.46	11.7	snowing.....	W. J. Fisher.
St. Thomas, W. I.....	30.03	762.7	30.16	766.1	74	23.3	76	e.	.....	.....	.....	0	3 ks	.....	e.	0.17	4.3	clear	Aug. Wallace.
Havana, Cuba.....	30.03	762.7	30.09	764.3	71.2	21.8	84	e.	8	3.6	.....	0	7 k	.....	e.	0.03	0.8	cloudy.....	Benito Vines, S. J.
York Factory, B. A.....	30.40	772.1	30.46	773.7	—23.0	—30.6	.....	nw.	16	7.2	.....	3 k	2 s	nw.	nw.	inap.	inap.	fair.....	Fortesque & Wood.

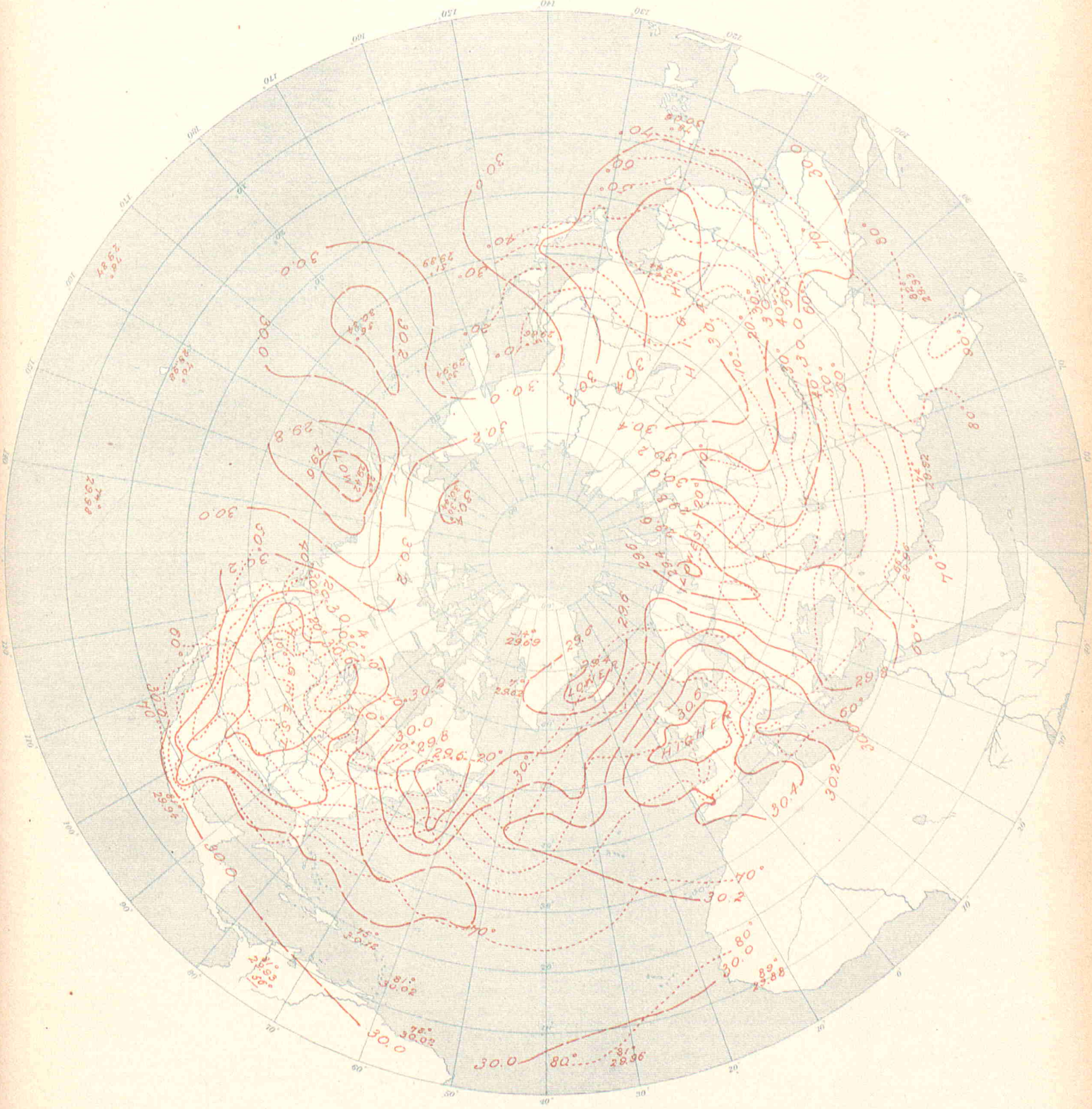
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Sea-swell. Character.	Sea-swell. Direction from	Weather.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. Dock-Yard, Bermuda, W. I.....	30.12	765.0	65	18.3	78	sbw.	.....	.....	4-5	.....	8	sbw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Fawn, N. 43° 12′, W. 24° 30′.....	30.30	769.6	59.5	15.3	91	sse.	.....	.....	1	.....	9	.....	.....	.....	.....	.....	.....	squally.
H. M. S. Monarch, Port Said, Egypt.....	29.75	755.6	53	11.7	93	ssw.	.....	.....	5-6	.....	9	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Minotaur, Vigo Bay, Spain ..	30.46	773.7	60	15.6	73	wsw.	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Tyne, N 16° 18′, W. 64° 00′.....	30.04	763.0	76	24.4	76	ne.	.....	.....	3-4	.....	2	.....	.....	.....	.....	3	e.	fair.
U. S. Navy Yard, Portsmouth, N. H*.....	29.78	756.4	28	— 2.2	7	wnw.	11	4.9	.....	.....	2	.....	nw.	0.06	1.5	.....	.....	clear.
U. S. S. Alliance, off Nuevitas, Cuba	30.10	764.5	75	23.9	95	se.	.....	.....	2	.....	2	.....	light	light	sm'h	.....	.....	clear.
U. S. S. Juniata, N. 35° 54′, E. 14° 29′ *....	30.26	768.6	66	18.9	64	nnw.	.....	.....	4	.....	2	.....	n.	o	o	long	n.	hazy.
U. S. S. Kearsarge, Cartagena, U. S. C.....	29.88	758.9	77	25.0	100	cne.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	misty.
U. S. S. Lancaster, Southampton, Eng.....	30.65	778.5	44	6.7	100	calm	.....	.....	0	.....	10	.....	calm	.....	.....	sm'h	.....	cloudy.
U. S. S. Portsmouth, Ft. Royal Martinique, W. I.....	30.08	764.0	75	23.9	100	ne.	.....	.....	2	.....	8	.....	e.	.....	.....	sm'h	.....	cloudy.
U. S. S. Powhattan, N. 24° 09′, W. 69° 57′.....	30.22	767.6	74	23.3	90	ese.	.....	.....	3	.....	5	.....	.....	.....	.....	sm'h	se.	cloudy.
U. S. S. Saratoga, N. 34° 26′, W. 58° 52′.....	30.33	770.4	60	15.6	70	s.	.....	.....	3-5	.....	5?	.....	s.	light	light	mod.	s.	clear?
U. S. S. St. Louis, League Island, Pa.....	30.07	763.8	34	1.1	61	wnw	17.1	7.6	.....	.....	2	.....	w.	blank	blank	.....	.....	clear.
U. S. S. Swatara, Hampton Roads, Va*†.....	30.16	766.1	41	5.0	73	wnw.	.....	.....	2	.....	5?	.....	wnw.	.....	.....	.....	.....	clear?
U. S. S. Tennessee, Aspinwall, Panama *.....	29.94	760.5	82	27.8	87	nnw.	12	5.4	.....	.....	2	.....	.....	o	o	.....	.....	clear.
U. S. S. Vandalia, Aspinwall, Panama*.....	29.95	760.7	80	26.7	86	n.	.....	.....	3	.....	5	.....	ne.	.....	.....	.....	.....	fair.
U. S. S. Yantic, Pensacola, Fla.....	30.59	777.0	46	7.8	100	n.	.....	.....	1	.....	5	.....	.....	.....	.....	sm'h	.....	fair
s. S. British Crown, N. 48° 40′ W. 33° 23′†.....	29.97	761.2	46	7.8	.....	n.	.....	.....	5	.....	10	.....	nne.	18 h'r	18 h'r	mod.	w.	light rain.
S. S. British Prince, N. 41° 38′, W. 58° 26′.....	.....	.....	53	11.7	.....	sse.	.....	.....	6	.....	10?	.....	s.	o	o	r'gh	sse.	cleary
S. S. Indiana, N. 50° 34′, W. 17° 42′.....	.....	.....	56	13.3	87	ssw.	.....	.....	5	.....	8	.....	sw.	o	o	sm'h	sw.	cloudy.
S. S. Lord Clive, N. 40° 40′, W. 65° 42′.....	.....	.....	.....	.....	.....	wnw.	.....	.....	4	.....	9	.....	sw.	o	o	mod.	sw.	cloudy.
S. S. Pennsylvania, N. 39° 48′, W. 69° 43′†.....	29.80	756.9	35	1.7	90	nnw.	.....	.....	2	.....	3	.....	nw.	4 h'r	4 h'r	sm'h	nw.	fine.
S. S. Circassian, N. 43° 20′, W. 55° 00′ *.....	30.18	766.6	43	6.1	100	sse.	.....	.....	5	.....	7	.....	s.	o	o	3	sse.	d. clouds.
S. S. Manitoban, N. 43° 31′, W. 57° 08′.....	29.89	759.2	42	5.6	.....	sse.	.....	.....	5	.....	6	.....	s.	o	o	hv'y	sse.	cloudy.
S. S. Jason, N. 41° 39′ W. 59° 40′.....	.....	.....	53.6	12.0	.....	wnw.	.....	.....	4-8	.....	8 n	.....	.....	.....	.....	7	wnw	gloomy.
S. S. Alvo, Gonavies, Hayti, W. I.....	30.06	763.5	78	25.6	.....	nne.	.....	.....	4	5 ck	o	calm	.....	o	o	.....	.....	fine.
S. S. Alene, N. 17° 47′, W 77° 46′ *†.....	30.10	764.5	.....	.....	.....	.....	.....	.....	3	.....	o	.....	.....	o	o	sm'h	.....	fine.
S. S. Ailsa, N. 27° 17′, W. 74° 23′†.....	30.20	767.1	73	22.8	95	sw.	.....	.....	2	.....	.....	.....	sw.	o	o	sm'h	e.	fair.
S. S. Anchoria, N. 54° 18′, W. 21° 40′†.....	30.19	766.8	.....	.....	.....	s.	.....	.....	4	.....	8	.....	s.	shr's	shr's	sm'h	.....	hazy.
S. S. Bolivia, Glasgow, Scotland	30.53	775.4	45	7.2	.....	w.	.....	.....	3	.....	o	.....	.....	o	o	.....	.....	covered.
S. S. Dorian, N. 48° 25′, W. 36° 41′.....	30.347	770.67	46	7.8	.....	ne.	.....	.....	5	.....	10	.....	nne.	.....	.....	long	ene.	overcast.
S. S. Utopia, N. 46° 03′, W. 9° 24′*.....	30.51	774.9	56	13.3	87	se.	.....	.....	3	.....	o	.....	nne.	.....	.....	sm'h	nw.	clear.
S. S. Landaff City, N. 46° 40′, W. 34° 48′†.....	30.10	764.5	39	3.9	.....	n.	.....	.....	6	.....	9	.....	ne.	24 h'r	24 h'r	h'vy	ne.	cloudy.
S. S. Bothnia, N. 41° 51′ W. 60° 24′.....	29.72	754.9	56	13.3	100	w.	.....	.....	6	.....	8	.....	sw.	3 h'r	3 h'r	r'gh	ssw.	rainy.
S. S. Marathon, N. 42° 35′ E. 10° 48′.....	30.19	766.8	74?	23.3?	.....	ne.	.....	.....	3	.....	1	.....	ne.	o	o	.....	.....	fine
S. S. Parthia, N. 51° 11′, W. 14° 53′.....	30.62	777.7	51.5	10.8	96	sbw.	.....	.....	4	.....	7	.....	wsw.	o	o	mod.	var.	d. clouds.
S. S. Pavonia, N. 44° 25′, W. 43° 34′.....	30.21	767.3	43	6.1	83	n.	.....	.....	5	.....	2	.....	nne.	snow	snow	long	nne.	clear.
S. S. Canada, N. 41° 55′, W. 60° 28′.....	29.71	754.5	53.6	12	.....	s.	.....	.....	5	ck	.....	s.	.....	.....	.....	h'vy	wsw.	sprinkling.
S. S. Pereire, N. 40° 32′, W. 64° 10′†.....	29.70	754.3	55.4	13	.....	nw.	.....	.....	4	.....	2	.....	nw.	o	o	r'gh	nw.	clear.
S. S. Ville de Marseilles, Desecheo, W.I.†.....	30.20	767.1	72	22.2	.....	e.	.....	.....	4	.....	4	.....	e.	sh'rs	sh'rs	sm'h	.....	fair.
S. S. Abyssinia, N. 41° 28′, W. 61° 00′.....	29.63	752 6	56	13.3	87	s.	.....	.....	6	.....	10	.....	sw.	12 h'r	12 h'r	r'gh	sw.	heavy rain.
S. S. Vandalia, N. 42° 21′, W. 56° 00′.....	30.09	764.3	46.0	7.8	100	s.	.....	.....	6	.....	8	.....	s.	.....	.....	6	s.	cloudy.
S. S. Wieland, N. 47° 01′, W. 40° 24′.....	30.28	769.1	.....	.....	.....	nne.	.....	.....	3	.....	8	.....	ne.	11 h'r	11 h'r	r'gh	ne.	squally.
S. S. Mentmore, N. 51° 23′, W. 28° 59′ *†.....	30.10	764.5	.....	.....	.....	sw.	.....	.....	6	.....	10	.....	sw.	o	o	mod	sw.	gloomy.
S. S. Archimedes, N. 40° 10′, W. 9° 42′.....	30.36	771.1	.....	.....	.....	n.	.....	.....	2	.....	5	.....	n.	o	o	sm'h	.....	fair.
S. S. Colorado, N. 37° 27′, W. 74° 37′†.....	30.20	767.1	40	4.4	.....	n.	.....	.....	5	.....	0	.....	.....	2 h'r	2 h'r	small	n.	clear.
S. S. Rio Grande, N. 27° 42′, W. 79° 43′†.....	30.13	765.3	75	23.9	.....	n.	.....	.....	4	.....	4	.....	n.	o	o	long	n	light clouds.
S. S. San Marcos, Galveston, Texas.....	30.38	771.6	50	10.0	.....	ne.	.....	.....	5	.....	.....	.....	ne.	o	o	.....	.....	fair.
S. S. Chalmette, N. 32° 55′, W. 74° 40′†.....	30.23	767.8	52	11.1	.....	nnw.	.....	.....	6	.....	4	.....	nnw.	o	o	rg'h	nnw.	fair.
S. S. Lone Star, N. 24° 32′ W. 81° 20′†.....	30.15	765.8	74	23.3	.....	n.	.....	.....	2	.....	2	.....	.....	o	o	sm'h	.....	fine.
S. S. Alleghany, N. 38° — W. 75° —′†.....	30.18	766.6	40	4.4	.....	w.	.....	.....	5	.....	4	.....	n.	o	o	hv'y	se.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Picqun, Genoa, Italy	.....	.....	65	18.3	.....	n.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
S. S City of Merida, N. 21° 20′ W. 89° 40′†	30.11	764.8	79	26.1	.....	e.	.....	.....	2	.....	5?	.....	e.	0	0	light	ne.	cloudy.?
S. S. City of Washington, N. 30° 45′, W. 79° 35′†	30.23	767.8	60	15.6	.....	n.	.....	.....	5	.....	8	.....	n.	0	0	mod.	n.	fine.
S S. Denmark, N. 43° 07′, W. 55° 00′†	30.03	762.7	39	3.9	.....	s.	.....	.....	4	.....	2	.....	ssw.	0	0	sm'h	.....	clear.
S. S. Erin, N. 49° 38′, W. 8° 33′	30.54	775.7	50	10.0	.....	se.	.....	.....	3	.....	2	.....	se.	0	0	sm'h	.....	clear.
S. S. Greece, N. 48° 19°, W. 23° 19′	30.15	765.8	51	10.6	.....	s.	.....	.....	6	.....	10	.....	ssw.	0	0	light	ssw.	misty.
S. S. Helvetia, N. 40° 49′, W. 68° 00′	29.83	757.7	35	1.7	.....	wnw.	.....	.....	5	.....	10	.....	w.	0	0	cf'd	sw.	cloudy.
S. S. America, N. 48° 51′, W. 20° 25′*	30.20	767.1	55.0	12.8	93	s.	.....	.....	5	.....	10	.....	s.	0	0	sm'h	s.	dense fog.
S. S. Donau, N. 40° 58′, W. 63° 24′	29.85	758.2	.....	.....	.....	nw.	.....	.....	5	.....	8	.....	nnw.	22 h'r	22 h'r	h'vy	ssw.	cloudy.
S. S. Elbe, off Beachy Head, Eng	30.69	779.5	46	7.8	.....	ne.	.....	.....	1-2	.....	7	.....	.....	0	0	sm'h	e.	hazy.
S. S. Hermann, N. 48° 09′, W. 26° 36′	30.18	766.6	55.4	13.0	88	sw.	.....	.....	5	.....	10	.....	sw.	8 h'r	8 h'r	4	sw.	clearing.
S. S. Neckar, N. 45° 32′, W. 43° 20′	30.36	771.1	39.0	3.9	100	nnw.	.....	.....	4	.....	10	.....	nnw	0	0	mod	nw.	fair.
S. S. Oder, N. 51° 45′ E. 2° 28′	30.07	779.0	49	9.4	.....	ssw.	.....	.....	1-2	.....	9	.....	wsw.	0	0	sm'h	nnw.	hazy.
S. S. Weser, N. 40° 39′, W. 65° 31′	29.78	756.4	.....	.....	.....	wnw.	.....	.....	6	.....	10	.....	nw.	3 h'r	3 h'r	long	s.	clearing.
S. S. Muriel, N. 27° 35′, W. 67° 15′*	30.22	767.6	75	23.9	.....	e.	.....	.....	3	.....	0	.....	.....	.....	.....	mod.	e.	
S. S. Belgenland, N. 50° 02′, W. 8° 40′*†	30.48	774.2	50	10.0	93	s.	.....	.....	3	.....	6	.....	w.	0	0	sm'h	.....	
S. S. Nederland, N. 41° 15′, W 63° 39′	.....	.....	44	6.7	84	w.	.....	.....	4	.....	5	.....	wnw.	20 h'r	20 h'r	cross	s.	fair.
S. S. Rhynland, Jersey City, N. J	30.07	763.8	34	1.1	100	w.	.....	.....	5	.....	4	.....	w.	0	0	.....	.....	fine.
S. S. Pennland, N. 45° 18′, W. 52° 32′	.....	.....	29	— 1.7	88	sse.	.....	.....	4	.....	2	.....	sew.	0	0	mod.	sse.	clear.
S. S. Waesland, N. 50° 12′, W. 15° 53′	30.51	774.9	52	11.1	.....	sw.	.....	.....	4	.....	9	.....	s.	0	0	sm'h	sw.	cloudy.
S. S. Zeeland, N. 42° 20′ W. 56° 00′	.....	.....	30	— 1.1	.....	s.	.....	.....	6	.....	8?	.....	sw.	h'vy	h'vy	short	s	clear?
S. S. Schiedam, N. 45° 41′, W. 41° 40′	30.24	768 1	57.2	14.0	.....	n.	.....	.....	3	.....	3	.....	ne.	0	0	long	nw.	fair.
S. S. W. A. Scholten, N. 49° 42′, W. 7° 01′ *	30.51	774.9	50.2	10.1	100	sw.	.....	.....	5	.....	10	.....	s.	0	0	sm'h	w.	foggy.
S. S. Zaandam, N. 49° 38′, W. 7° 56′	30.58	776.7	60.4	15.8	100	se.	.....	.....	2	.....	5 k	.....	se.	0	0	.....	.....	fine.
S. S. Caracas, Curacao, Venezuela†	30.03	762.7	79	26.1	82	e.	.....	.....	3	.....	2	.....	e.	0	0	sm'h	.....	fine.
S. S. Claudius, Port Antonio, Jamaica†	30.17	766.3	73.0	22.8	92	se.	.....	.....	1	.....	5	.....	e.	light	light	.....	.....	fair.
S. S. Valencia, N. 35° 14′, W. 71° 58′ †	30.13	765.3	60	15.6	76	nw.	.....	.....	6	.....	10	.....	nw.	4 h'r	4 h'r	h'vy	var.	cloudy.
S. S. State of Florida, N. 40° 37′, W. 69° 50′	.....	.....	39	3.9	.....	w.	.....	.....	5	.....	4	.....	nw.	0	0	light	nw	clear.
S. S. Lepanto, N. 36° 37′, E. 1° 00′	.....	.....	56	13.3	.....	ne.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	fair.
S. S. Marengo, N. 49° 56′, W. 24° 28′†	30.17	766.3	.....	.....	.....	ese.	.....	.....	6	.....	10	.....	ese.	24 h'r	24 h'r	r'gh	ese.	light rain.
S. S. Salerno, N. 49° 43′ W. 20° 23′†	30.47	773.9	54	12.2	.....	ssw.	.....	.....	3	.....	10	.....	s.	0	0	sm'h	s.	hazy.
S. S. Brooklyn, N. 43° 17′, W. 47° 49′*	30.12	765.0	28	— 2.2	.....	ne.	.....	.....	2	.....	.....	.....	ne.	0	0	long	nne.	cloudy.
S. S. Toronto, N. 42° 43′, W. 61° 16′*	29.61	752.1	40	4.4	.....	s.	.....	.....	6	.....	10	.....	.....	2 h'r	2 h'r	h'vy	ssw.	foggy.
S. S. Lake Huron, N. 47° 30′ W. 34° 27′*	29.80	756.9	44	6.7	.....	nne.	.....	.....	5	.....	10	.....	ne.	2 h'r	2 h'r	mod.	n.	dull.
S. S. Olbers, N. 6° 44′, W. 28° 00′*†	29.82	757.4	84	28.9	.....	ne.	.....	.....	5	.....	8	.....	ene.	0	0	long	e.	fine.
S. S. Catherine Whiting, Shinnecock, N. Y†	30.07	763.8	78	25.6	.....	wnw.	.....	.....	6	.....	10	.....	.....	0	0	sharp	s.	
S. S. Saxon, Boston, Mass†	29.80	756.9	.....	.....	.....	w.	.....	.....	9	.....	4	.....	.....	.....	.....	.....	.....	fine.
S. S. Baltic, N. 49° 16′ W. 31° 14′*	29.97	761.2	50	10.0	100	wsw.	.....	.....	2	.....	10	.....	.....	0	0	mod.	nnw.	foggy.
S. S Celtic, N. 41° 04′, W. 66° 10′†	29.82	757.4	58	14.4	.....	s.	.....	.....	6	.....	10	.....	s.	12 h'r	12 h'r	high	s.	cloudy.
S. S. Iowa, off Point Lynas, Wales*†	30.66	778.7	48	8.9	.....	ssw.	.....	.....	4	.....	8	.....	ssw.	0	0	sm'h	.....	cloudy.
Auckland, N. 24° 50′, W. 40° 57′	29.92	760.0	66	18.9	79	nw.	.....	.....	5	.....	5	.....	.....	.....	.....	.....	.....	squally.
Bk. Commewyne, N. 31° 46′, W 30° 45′*	30.11	764.8	67.9	19.9	76	sse.	.....	.....	5	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. City of Agra, N. 48° 30′, W. 16° 45′	30.51	774.9	51	10.6	86	s'.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	overcast.
Coppename, N. 8° 03′, W. 57° 40°	30.01	762.2	78	25.6	78	ne.	.....	.....	3	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Ptolemy, N. 36° 13′, W. 71° 40′	30.07	763.8	51.7	10.9	83	nw.	.....	.....	7	.....	7	.....	.....	.....	.....	.....	.....	d clouds.
S. S. Parthia, N. 51° 11′, W. 14° 35′	30.49	774.4	53.5	11.9	67	ssw.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Antonio Lopez, N. 25° 16′, W. 80° 03′	30.14	765.5	74	23.3	86	ne,	.....	.....	2	.....	4	.....	.....	1 h'r	1 h'r	sm'h	.....	fair.
Schr. Abbie H. Gheen, Camden, N. J†	30.13	765.3	31	— 0.6	.....	wnw.	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	clear.
Bg. Abbie Clifford, N. 34° 55′, W. 74° 30′ †	30.09	764.3	52	11.1	.....	nnw.	.....	.....	5	.....	5	.....	nnw.	0	0	mod.	n.	fair
Bk. Aquidneck, N. 80 56′, W. 32° 42′*†	30.10	764.5	.....	.....	.....	e.	.....	.....	2	.....	.....	.....	e.	0	0	hv'y	se.	clear
Bg. Alcira, Maracaybo, Venezuela, S. A	30.00	762.0	81	27.2	.....	nne.	.....	.....	3	.....	7?	.....	ne.	0	0	.....	.....	clear.?
Schr. Anna A. Holton, N. 22° 53′, W. 95° 53′†	30.15	765.8	74	23.3	.....	nnw.	.....	.....	7	.....	10	.....	n.	12 h'r	12 h'r	rg'h	nnw.	cloudy.
Schr. Annie R Lewis, Arroyo, Porto Rico, W. I†	30.20	767.1	74	23.3	.....	ene.*	.....	.....	5	.....	10	.....	ene.	1 h'r	1 h'r	.....	.....	raining.
Bk. Anna Thormann, N. 35° 29′ W. 37° 42′*	29.91	759.6	57.2	14.2	88	nnw.	.....	.....	6	.....	10 n	.....	nnw.	22 h'r	22 h'r	r'gh	nw.	rainy.
Bk. Aureola, N. 50° 20′ W. 8° 14′*†	30.68	779.3	55	12.8	.....	ssw.	.....	.....	2	.....	9	.....	ssw.	0	0	mod.	s.	dense fog.
Bk. Achille F, N. 50° —′, W. 5° —′†	30.65	778.5	48	8.9	92	sse.	.....	.....	1	.....	8	.....	sse.	0	0	sm'h	.....	
Bg. Annie R. Storer N. 20° 30′, W. 71° 50′*†	30.16	766.1	.....	.....	.....	e.	.....	.....	4	.....	5	.....	e.	3 h'r	3 h'r	sm'h	e.	squally.
Bk. Pilgrim, N. 8° 14′, W. 35° 30′*†	30.00	762.0	.....	.....	.....	ene.	.....	.....	4	.....	2	.....	ene.	0	0	mod.	ene.	clear.
Bg. Clara M. Goodrich, N. 32° 25′, W. 73° 00′	.....	.....	.....	.....	.....	nnw	.....	.....	5	.....	5	.....	nw.	2 h'r	2 h'r	cross	var.	clearing.
Bk. Champion, Hamburg, Germany	.....	.....	49	9.4	.....	w.	.....	.....	6	.....	5	.....	wnw.	0	0	.....	.....	fair
Bkt. C S. Bushnell, Alicante, Spain	30.42	772 7	.....	.....	.....	var.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	fine.
S. Cornelius, N. 42° 55′, W. 23° 59′†	30.37	771.4	59.0	15.0	.....	s.	.....	.....	4	.....	10	.....	.....	6 h'r	6 h'r	sm'h	.....	foggy.
Schr.C. R. Flint, N. 26° 45′, W. 60° 49′	.....	.....	70	21.1	.....	ese.	.....	.....	2	.....	8	.....	e.	0	0	mod	ene.	fair.
Bk.Commerce, Cadiz, Spain	30.23	767.8	66	18.9	.....	ese.	.....	.....	6	.....	0	.....	.....	0	0	.....	.....	fine.
S. S. Canonbury, N. 19° 32′, W. 49° 30′ *†	30.19	766.8	.....	.....	.....	nne.	.....	.....	5	.....	4	.....	ne.	1 h'r	1 h'r	r'gh	nne.	fair.
Bk. Chas. Stewart, N. 4° 00′, W. 32° 20′†	30.06	763.5	81	27.2	.....	nE.	.....	.....	5	.....	5	.....	e.	0	0	r'gh	var.	hazy.
Schr. Edith R. Seward, San Domingo, Hayti, W, I†	30.05	763.3	71	21.7	.....	n.	.....	.....	3	.....	5 8?	.....	nne.	10 mi	nutes	mod.	ese.	clear.?
S. E. J. Spicer, N. 39° 57′, W. 63° 00′	29.64	752.8	60	15.6	?	nnw.	.....	.....	8	.....	10	.....	nw.	18 h'r	18 h'r	h'vy	s.	heavy rain.
Bk. E. D. Bigelow, N. 31° 07′, W. 53° 10′*†.	30.14	765.5	.....	.....	.....	n.	.....	.....	2	.....	2	.....	var.	0	0	cf'd	nne.	fair.
Schr. F. E. McDonald, N. 22° 09′, W. 59° 15′†	30.22	767.6	.....	.....	.....	ne.	.....	.....	5	.....	.....	.....	.....	0	0	r'gh	.....	fine.
S. S. Foscolo, N. 37° 18′, E. 10° 38′†	30.36	771.1	.....	.....	.....	wnw.	.....	.....	6	.....	2	.....	wnw.	0	0	r'gh	nw.	fair.
S. Festina Lente, N. 53° 42′, W. 28° 31′	30.03	762 7	41	5.0	.....	nnw.	.....	.....	3	.....	10	.....	nnw.	24 h'r	24 h'r	mod.	s.	overcast.
Bg. Gipsey Queen, Cardenas, Cuba, W. I*†	30.10	764.5	76	24.4	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	fair.
Bk. Guchen, N. 42° 34′, W. 11° 30′ *†	30.38	771.7	52.7	11.5	.....	ene.	.....	.....	2-6	.....	8	.....	e.	.....	.....	sm'h	e.	hazy.
Bk. Galeon, N. 50° 56′, W. 7° 45′	.....	.....	51	10.6	.....	sw.	.....	.....	3	.....	1	.....	sw.	.....	.....	2	sw.	fine.
S. Hedwig, N. 59° 08′, E. 1° 28′	30.25	768.3	44.6	7.0	96	wsw.	.....	.....	2	.....	6	.....	wsw.	0	0	3	n.	fair.
Bk. Hattie G. McFarland, Pascagoula, Miss*†	30.49	774.4	48	8.9	.....	ne.	.....	.....	6	.....	10	.....	nne.	0	0	.....	.....	cloudy.
Bk. Horace Scudder N. 2° 15′, W. 28° 04′*†	30.03	762.7	82	27.8	.....	ene.	.....	.....	3	.....	3	.....	ene.	5 mi	nutes	long	ne.	fine.
Schr. Isabel Alberto, N. 25° 10′, W. 78° 33′†	30.10	764.5	.....	.....	.....	se.	.....	.....	2	.....	2	.....	se.	0	0	sm'h	.....	clear.
S. S. J. W. Wilson, Tuspan, Mexico*†	30.20	767.1	68	20.0	.....	n.	.....	.....	2	.....	10	.....	.....	20 h'r	20 h'r	.....	.....	raining.
S. J. W. Gieldemeister, N. 48° 58′ W. 8° 15′	30.56	776.2	57.2	14.0	84	sse.	.....	.....	1-5	.....	0	.....	.....	0	0	3-4	nw.	misty.
Bg. L.'& W. Armstrong, Pointe a Pitre, Guadeloupe*†	30.10	764.5	.....	.....	.....	ene.	.....	.....	1	.....	1	.....	ene.	0	0	.....	.....	clear.
Bg. Lillan, N. 24° 15′, W. 62° 25′†	30.18	766.6	73	22.8	.....	ene.	.....	.....	5	.....	2	.....	.....	0	0	rg'h	var.	clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764.3	.....	.....	.....	calm	.....	.....	0	.....	2	.....	e.	0	0	.....	.....	fine.
S. S. Madrid, N. 37° 13, E. 3° 34′*†	30.57	776.5	58	14.4	87	var.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	ne.	clear.
Bk. Mary A. Troop, Sharpness Point, Eng*†	30.54	775.7	.....	.....	.....	wsw.	.....	.....	2	.....	0?	.....	.....	0	0	.....	.....	fair. ?
Bgt. Myrtle, Saint Thomas, W. I*†	30.00	762.0	.....	.....	.....	ene.	.....	.....	3	.....	1	.....	ene.	2 h'r	2 h'r	.....	.....	fair.
S. M. P. Grace, N. 48° 56′, W. 15° 32′*	30.41	772.4	50	10.0	.....	sse.	.....	.....	5	.....	7	.....	sse.	0	0	sm'h	sse.	cloudy.
S. S. Mendoza, N. 13° 40′, W. 41° 23′*†	30.05	763.3	.....	.....	.....	e.	.....	.....	3	.....	4?	.....	e.	0	0	sm'h	.....	clear?
Bkt. Norena, N. 33° 19′, W. 76° 16′ *†	30.28	769.1	.....	.....	.....	wnw.	.....	.....	5	.....	3	.....	n.	1 h'r	1 h'r	cross	var.	fine.
Bk. Orpheus, N. 47° 31′, W. 24° 36 ′	30.56	776.2	57	13.9	.....	ssw.	.....	.....	2	.....	7 k	.....	sw.	.....	.....	sm'h	.....	foggy.
Bk. Ottawa, N. 31° 33′, W. 22° 31′ *	30.24	768.1	72	22.2	.....	e.	.....	.....	4	.....	4	.....	se.	0	0	sm'h	se.	fair.
Bk. Reindeer, N. 33° 34′ W. 74° 15′	.....	.....	.....	.....	.....	nnw.	.....	.....	.....	.....	5	.....	wsw.	.....	.....	short	nnw.	
S. Rudolph, N. 22° 31′ W. 56° 24′	.....	.....	72.5	22.5	.....	nne.	.....	.....	6	.....	3	.....	nne.	0	0	long	var.	fair.
Bk. Rebus, N. 34° 40′, W. 26° 30′*	30.11	764.8	66	18.9	.....	s.	.....	.....	5	.....	5	.....	s.	0	0	sm'h	ssw.	misty.
Bk. Sunbeam, N. 23° 17′, W. 42° 10′	29.94	760.5	69	20.6	75	nw.	.....	.....	6	.....	5	.....	nw.	6 h'r	6 h'r	r'gh	w.	fair.
Bk. Usko, N. 25° 38′, W. 30° 29′*	30.00	762.0	70	21.1	.....	sse.	.....	.....	3	.....	4	.....	s.	0	0	mod.	e.	fair.
S. Vincenzo Accame, N. 48° 00′, W. 24° 00′†	30.35	771.0	66.8	19	.....	sse.	.....	.....	5	.....	10	.....	sw.	0	0	r'gh	sw.	gloomy.
Schr. Viola Reppard, N. 40° 16′ W. 73° 19′†	29.98	761.5	39	3.9	.....	nnw.	.....	.....	5	.....	3	.....	wnw.	0	0	chop	nw.	clear.
Schr. Wm. Wiler, St. Thomas Island, W. I†	30.11	764.8	.....	.....	.....	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	fine.
S. Wm. Woodbury, N. 59° 26′, W 14° 42′	.....	.....	41	5.0	.....	sw.	.....	.....	7	.....	10	.....	.....	.....	.....	high	wsw.	covered.
S. S. Colon, N. 10° 46′, W. 78° 44†	29.95	760.7	79	26.1	.....	nne.	.....	.....	4	.....	3	.....	ne.	0	0	mod.	ne.	clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2—South Atlantic.																		
H. M. S. Starling, S. 6° 03′, E. 12° 20′	29.85	758.2	82.8	28.2	85	ssw.			2		4	ssw.						d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*..	29.86	758.4	68	20.0	74	sw.	2	0.9			0			0	0			clear.
U. S. S. Galena, Colonia, Uruguay*..	29.85	758.2	70	21.1	90	e.			1		0					sm'h		clear.
S. S. Grecian, Buenos Ayres, La Plata*..	29.88	758.9	74	23.3	63	ene.			1		0			0	0			clear.
S. S. Hevelius, S. 4° —′, W. 30° 30′†	30.10	764.5	80	26.7		ese.			5		9		e.	5 h'r	5 h'r	long	ne.	cloudy.
S. S. Caldew, S. 2° 36′, W. 21° 15′	29.89	759.2	79.3	26.3	87	sw.			2		8							d. clouds.
Bk. May Hulse, S. 57° 44′ W. 69° 07′	28.41	721.6	36	2.2	82	wsw.			7		9							raining.
Bk. Ceres, S. 20° 20′, W. 36° 37′*	30.03	762.7	81.5	27.5	73	wnw.			3		5		nw.	0	0	sm'h	ne.	fair.
Bk. Bare, S. 5° 16′, W. 28° 00′*†	30.33	770.4	82	27.8		sse.			1		9		se.	10 h'r	10 h'r	sm'h		cloudy.
S. Armenia, S. 10° 50′, W 34° 20′*	29.91	759.7	81	27.2	83	ese.			4		10		ese.	2 h'r	2 h'r	mod	se.	cloudy.
Bk. Essex, S. 24° 06′, E. 2° 34′*†	30.00	762.0	81.0	27.2		w.			1		10		ne.	0	0	sm'h	s.	fine.
Bk. E. L. Pettingill, S. 7° 19′, W. 30° 16′*†	30.10	764.5	80	26.7		e			4		5		e.	0	0	mod	ne.	
S. E. B. Sutton, S. 36° 58′, W. 53° 00†	29.85	758.2	65	18.3	78	ssw.			4		1		ssw.	0	0	r'gh	ssw.	clear.
S. Grecian, S. 38° 03′, W. 11° 55′†	30.10	764.5	65	18.3	89	sw.			4		0			0	0	sm'h	s.	hazy.
S. Sovereign of the Seas, S. 45° 57′, W. 38° 15′*†	29.48	748.8	51	10.6	93	s.			3		10		sw.	20 h'r	20 h'r	h'vy	var.	showery.
S. Titan, S. 44° 05′, W. 59° 06′*†	29.30	744.2	61	16.1	88	nw.			6		5		nw.	0	0	r'gh	sw.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay †	29.90	759.4	67	19.4		sse.			4		3		s.	0	0			fair.
District No. 3—North Pacific.																		
S. S. Belgic, N. 41° 13′, E. 177° 37′*†	30.24	768.1	56	13.3	63	e.			5		8		e.	2 h'r	2 h'r	r'gh	e.	cloudy.
S. S. Coptic, N. 37° 50′ E. 160° 50′	29.79	756.7	56.5	13.6	81	s.			4		10		s.	8 h'r	8 h'r	mod.	con.	raining.
S. S. Oceanic, N. 24° 06′ E. 118° 30′*	30.35	770.9	49	9.4	85	nne.			6		9		sw.			mod	nne.	cloudy.
S. S Oregon, N. 37° 56′, W. 123° 26′†	30.24	768.1	50	10.0	93	nw.			1							sm'h		misty.
S. S. Mississippi, Port Townsend, Wash. Ter†	30.32	770.1	40	4.4	82	sse.			1		0							clear.
S. S. Willamette, Seattle, W. T †	30.45	773.4	31	— 0.6	89	calm			0		0			0	0			clear.
S. S. Ancon, N. 35° 20′, W. 121° 04′ †	30.13	765.3	52	11.1	86	nne.			1		10					sm'h	wnw.	foggy.
S. S. City of Chester, San Francisco, Cal*†	30.19	766.8	52	11.1	73	n.			1		10			0	0			cloudy.
S. S. Dakota, Tacoma, W. T. *†	30.30	769.6	36	2.2	80	calm			0		10		ne.	0	0	sm'h		cloudy.
S. S. Orizaba, N. 37° 12′, W. 119°? 40′ *†	30.14	765.5	55	12.8	87	nw.			6		fg		nw.	0	0	sm'h	nw.	foggy.
S. S. State of California, N. 46° 00′, W. 124° 10′ †	30.28	769.1	43	6.1	100	ne.			3		0					sm'h	w.	clear.
S. S. City of New York, N. 3° 15, W. 164° 27′†	29.87	758.7	78	25.6	86	ese.			2		0			0	0	mod.	se.	clear.
S. S. City of Pekin, Yokohama, Japan †	30.06	763.5	42	5.6	58	nne.			5		10		ne.			sm'h		cloudy.
S. S. City of Rio de Janeiro, N. 24° 43′, W. 112° 28′			60	15.6	88	nw.			4		6		nw.	0	0	mod	nw.	fair.
S. S. Colima, Panama, Panama †	29.95	760.7	74	23.3	95	nw.			3		3		n.	0	0			clear.
S. S. San José, N. 15° 40′, W. 96° 43′†	29.94	760.5	78	25.6	82	ne.			2		5		ne.	0	0	long	ssw.	fair.
H. M. S Curacoa, N. 35° 10′, E. 139° 40′			47.5	8.6	78	n.			4–5		10							d. clouds.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	30.03	762.7	64	17.8		calm			0		2							d. clouds.
H. M. S. Swiftsure, N. 13° 43′, W. 137° 00′	29.98	761.5	74	23.3	100	ne.			4–5		8		ne.					d. clouds.
U. S. Naval Hospital, Yokohama, Japan*...	30.18	766.6	41.5	5.3	82	nw.			1		10		n.	0	0			gloomy.
U. S. S. Independence, Mare Island, Cal..	30.23	767.8	50	10.0	93	calm			0		10			0	0			cloudy.
U. S. S. Lackawanna, Honolulu Sandwich, Islands*...	29.98	761.5	70	21.1	75	nw.			1		2		e.					fair.
U. S. S. Monocacy, Hong Kong, China	30.27	768.8	57	13.9	75	ene.			2		10		calm			sm'h		cloudy.
U. S. S. Palos, Tientsin, China*	30.35	770.9	28	—2.2	100	calm			0		0							clear.
U. S. S. Ranger, Mare Id, Cal	30.20	767.1	49	9.4	93	calm			0		0?			0	0			cloudy.?
U. S. S. Richmond, Hong-Kong, China *..	30.22	767.6	57	13.9	75	ne.			1		10		e.	0	0			cloudy.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.98	761.5	68	20.0	79	n.			1		2		n.			sm'h		fair.
S. S. Scotia, N. 25° 55′, E. 120° 26′	30.42	772.7	47	8.3	70	nne.			7		10							overcast.
S. Henry Failing, Wilmington, Cal†	29.95	760.7	68	20.0		var.							se.	0	0	sm'h		fine.
Tamega, Macao, China	30.33	770.3	56.3	13.5	66	n.			4		10			0	0			overcast.
District No. 4—South Pacific.																		
H. M. S. Comus, Callao, Peru	29.94	760.5	67.5	19.7	92	se.			1		5	se.						d clouds.
H. M. S Heroine, Magellan strait, Patagonia	28.70	729.0	42	5.6	92	wsw.			4		10	wsw.				sm'h		squally.
H. M. S. Kingfisher, S. 9° 43′, W. 116° 42′	29.95	760.7	77	25.0		e.			3		7					4	e.	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 49′	29.87	758.7	65.3	18.5	89	calm			0		3					sm'h		d. clouds.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.87	758.7	63	17.2		calm			0									d. clouds.
H. M. S. Rocket, S. 45° 00′, W. 59° 24′	29.24	742.7	56	13.3	87	n.			6		6	nne.				5	wsw.	squally.
H. M. S. Sylvia, Havergal Bay, Patagonia	28.74	730.0	42.5	5.8	87	sw.			3		9							drizzling.
U. S. S. Essex, Callao, Peru	29.94	760.5	68	20.0	90	se.			1		5	se.						fair.
U. S. S. Iroquois, S. 38° 05′, W 93° 10′	30.08	764.0	69	20.6	85	ssw.			2		5	w.				mod.	s.	fair.
U. S. S. Onward, Callao, Peru*†	30.04	763.0	67	19.4	89	se.			1		8	n.						cloudy.
British Merchant, S. 49° 45′, W. 120° 56′	29.85	758.2	61	16.1	71	nne.			2		0			0	0	sm'h		clear.
Bk. Childwall, S. 31° 25′. W. 130° 50′*	29.60	751.8	51.2	10.7	86	nne.			6		9							d. clouds.
Bk. Edmund Phiney, S. 53° 45′, W. 76° 31′†	29.59	751.6	70	21.1		sse			3		9		sse.	12 h'r	12 h'r	cross	var.	raining.
Bk. Godeffroy, S. 34° 50′, W. 93° 56′*	29.00	736.6	40	4.4		sw.			9		6		sw.	8 h'r	8 h'r	h'vy	sw.	hailing.
S. St. Francis, S. 8° 45′, W. 128° 15′†	30.00	762.0	71.4	21.9	99	sw.			4		3		sw.	light	light	mod.	sw.	clear.
S. S. Australia, Sydney, N. S. W*	29.91	759.7	76	24.4		ene.			5		4		ese.	½ hr	½ hr	long	se.	raining.
S. S City of Sydney, S. 35° 25′, E. 174° 37′†	29.68	753.9	74	23.3	90	nne.			2		1		ne.	0	0			clear.
H. M. S. Gannet, S. 2° 12′, W. 79° 51′	29.88	758.9	68	20.0	79	e.			3		2		se.	0	0	mod.	se.	fair.
Bk. Warden Law, S. 47° 17′, W. 86° 20′ *	29.89	759.2	73	22.8	92	se.			1		10							misty.
S. George Stetson, S. 51° —′, W. 77° —′ *†	29.85	758.2				s.			4		8		s.	8 h'r	8 h'r	h'vy	wsw.	covered.
	29.70	754.4	46	7.8	84	ssw.			7		4		sw.	0	0	high	sw.	fair.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 7° 40′ E. 41° 10′	29.89	759.2	85	29.4		ese.			1–2		7	nnw.				1	ese.	d. clouds.
H. M. S. Eclipse, N. 30° 34′ E. 47° 49′	29.86	758.4	66	18.9		nne.			1		9	nnw.						d. clouds.
H. M. S. Euryalus, Calcutta, India	29.91	759.7	68	20.0	94	calm			0									raining.
H. M. S. London, Zanzibar, Zanzibar	29.87	758.7	82	27.8		s.			1		3	sse.				1	sse.	d. clouds.
H. M. S. Woodlark, Chakbar Bay, Arabia	29.82	757.4	73.5	23.1	81	ssw.			6		9					4	w.	showery.
S. S. Galatia, N. 14° 03′, E. 84° 44′†	29.93	760.2	82	27.8	91	e.			1		0			0	0	sm'h		clear.
S. Sacramento. S. 44° 10′, E. 81° 45′ *†	30.20	767.1	54	12.2	93	ene.			4		10			4 h'r	4 h'r	sm'h		rainy.

International Chart I. February 26, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B. Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 27, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.41	772.3	62.2	16.8	77	s.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Malaterre.
Algiers	.....	.....	30.41	772.3	59.0	15.0	93	ene.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Thève.
La Calle	.....	.....	30.35	770.9	67.6	19.8	67	wsw.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair..	Fonfréde.
Tunis	.....	.....	30.35	770.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.38	771.7	63.3	17.4	76	ne.	.....	.....	1	.....	1	.....	.....	0	0	very fair....	Pérès.
Tebessa	.....	.....	30.40	772.2	57.9	14.4	61	n.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Dognon.
Geriville	.....	.....	.....	.....	61.5	16.4	38	wnw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Forfert.
Laghouat	.....	.....	30.41	772.3	57.2	14.0	43	nw.	.....	.....	2	.....	0	.....	.....	0	0	clear.....	Abraham.
Biskra	.....	.....	30.38	771.6	63.7	17.6	26	n.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Malau.
Australian.																			
Melbourne, Victoria	29.35	745.5	29.44	747.8	69.1	20.6	77	n.	20	8.9	.....	.....	10	.....	.....	0.02	0.5	dull.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.84	757.8	30.41	772.3	42.8	6.0	38	sw.	.....	.....	3	.....	4	.....	.....	0	0	.....	Prof. Ivan Stczir.
Cracow, I. R Observatory	29.47	748.4	30.27	768.8	34.9	1.6	75	w.	9.8	4.4	.....	.....	10	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.34	745.2	30.26	768.7	34.5	1.4	66	nw.	.....	.....	2	.....	9 8	.....	se.	0	0	foggy.....	Julius Mikolik.
Gratz	29.09	738.8	30.39	771.9	40.5	4.7	55	s.	.....	.....	1	.....	7	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.71	729.1	30.21	767.3	31.8	— 0.1	92	nnw.	.....	.....	5	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	29.02	737.1	30.42	772.7	39.0	3.9	65	wnw.	.....	.....	2	9 ck	0	.....	.....	0	0	.....	The Staff.
Lemberg	29.15	740.3	30.18	766.6	33.3	0.7	65	n.	.....	.....	3	.....	4	.....	.....	0.142	3.6	.....	Dr. T. Stanecki.
Neu Schmecks	26.71	678.4	30.19	766.8	35.6	2.0	64	w.	.....	.....	2	.....	9	.....	.....	0.260	6.6	.....	Dr. V. von Szontagh.
Pola	30.31	769.8	30.42	772.7	46.6	8.1	58	se.	.....	.....	1	.....	6	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.74	755.4	30.21	767.4	35.8	2.1	62	n.	.....	.....	3	.....	5	.....	.....	0.020	0.5	.....	Joseph Midlinszky, S. J.
Szegedin	30.00	762.1	30.34	770.5	39.2	4.0	48	nw.	.....	.....	1	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.32	770.1	30.42	772.6	48.6	9.2	46	sw.	.....	.....	1	.....	3	.....	.....	0	0	.....	Royal Academy.
Vienna	29.63	752.7	30.38	771.6	41.4	5.2	57	w.	.....	.....	3	.....	10	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.15	765.8	30.25	768.3	46.0	7.8	80	nw.	14	6.3	.....	.....	5	.....	.....	0	0	blue sky.....	W. Boswell
Armagh, Observatory	30.17	766.3	30.42	772.7	49.7	9.8	89	sw.	15	6.7	.....	.....	10	.....	.....	.....	.....	overcast.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.41	772.4	48.0	8.9	77	wsw.	28	12.5	.....	.....	10	.....	.....	.....	.....	overcast.....	John Hartnup.
Bolton, Sharples	29.85	758.2	30.40	772.1	45.2	7.3	91	wsw.	18	8.0	.....	.....	10	.....	.....	.....	.....	overcast.....	Thomas Mackereth.
Bradford, Yorkshire	29.96	761.0	30.36	771.1	47.7	8.7	80	w.	.....	.....	2	.....	10	.....	.....	0	0	overcast.....	McLandsborough&Preston
Bridgetown, Barbadoes	30.00	762.0	30.03	762.7	81.0	27.2	70	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C
Cardington	30.33	770.4	30.44	773.2	51.0	10.6	75	w.	.....	.....	0.6	.....	4	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E.	30.34	770.6	30.47	773.9	42.3	5.7	87	nw.	.....	.....	1	.....	10	.....	.....	.....	.....	misty.....	Corpl. G. A. Pickles.
Falmouth, Observatory	30.34	770.6	30.58	776.7	50.0	10.0	71	nw.	.....	.....	2	.....	6	.....	.....	.....	.....	d. clouds....	The Staff.
Fort Napier, Natal	27.48	698.0	29.71	754.6	87.0	30.6	55	e.	.....	.....	1	.....	4	.....	.....	.....	.....	blue sky.....	Corpl. F. Milner, A. H. C.
Freetown	29.64	752.8	29.87	758.7	87.0	30.6	91	s.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	30.43	772.9	30.47	773.9	49	9.4	93	sw.	.....	.....	3	.....	10	.....	.....	0	0	drizzling.....	Wm. Ryan.
Gibraltar, Mediterranean	30.30	769.6	30.35	770.9	66.0	15.6	94	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky.....	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	30.08	764.0	30.28	769.1	43.8	6.6	.....	w.	.....	.....	4	.....	10	.....	.....	.....	.....	squally.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.30	769.6	30.48	774.2	43.2	6.2	79	w.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast.....	The Staff.
Guernsey	30.27	768.8	30.58	776.7	47.0	8.3	89	nw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	A. Collenette, F. M. S
Kew, Observatory	30.46	773.7	30.49	774.4	44.1	6.7	77	w.	13	5.8	.....	.....	9	.....	.....	.....	.....	d. clouds.....	The Staff.
Leicester, Museum	30.14	765.5	30.40	772.1	50.5	10.3	64	nw.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	30.18	766.0	30.26	768.6	55.0	12.8	62	ne.	.....	.....	2	.....	0	.....	.....	0	0	blue sky.....	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.18	766.0	30.23	767.8	68.0	20.0	90	ne.	.....	.....	4	.....	10	.....	.....	.....	.....	raining.....	C. S. Duncombe.
Oscott, St. Mary's College	29.89	759.2	30.43	772.9	47.5	8.6	72	w.	.....	.....	3	.....	7	.....	.....	.....	.....	d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	30.24	768.1	30.47	773.9	45.7	7.6	75	wnw.	.....	.....	3	.....	9	.....	.....	.....	.....	threatening.	The Staff.
Plymouth	30.47	773.9	30.55	776.0	50.0	10.0	85	nw.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds....	John Merrifield.
Sandwick Manse, Orkneys	30.10	764.5	30.20	767.1	45	7.2	76	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	d. clouds....	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.79	756.7	29.86	758.4	37.2	2.9	70	nne.	.....	.....	5	.....	10	.....	.....	.....	.....	light snow...	W. H. Lyne.
Sheffield	30.11	764.8	30.40	772.1	50.2	10.1	82	wsw.	.....	.....	2	.....	8	.....	.....	0	0	overcast.....	W. F. Cooper.
Silloth Rectory	30.30	769.6	30.33	770.4	45.7	7.6	92	wsw.	.....	.....	4	.....	10	.....	.....	0	0	overcast.....	Rev. S. J. Perry.
Stonyhurst, Observatory	.....	.....	30.40	772.1	45.8	7.7	88	w.	18	8.0	.....	.....	10	.....	.....	.....	.....	overcast.....	Rev. C. H. Griffiths, F. M. S.
Stratfield Turgiss	30.26	768.6	30.48	774.2	48.1	8.9	77	nw.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	W. Newcombe.
Truro, Royal Institution	30.53	775.4	30.58	776.7	54	12.2	73	nw.	.....	.....	6	.....	5	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
Valencia, Observatory	30.52	775.2	30.55	776.0	50.7	10.4	91	sw.	16	7.2	.....	.....	10	.....	.....	.....	.....	misty.....	
Sub-series.																			
Gozo, Episcopal Seminary	29.88	758.9	30.27	768.8	55.4	13.0	31	nnw.	12.4	5.5	.....	0	1 n	.....	nnw.	0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	5	—15.0	.....	nw.	7	3.1	.....	1 cs	0	.....	.....	0	0	blue sky.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.68	753.9	29.73	755.1	8	—13.3	78	w.	15	6.7	.....	.....	10 s	.....	w.	0	0	cloudy.....	H. J. Cundall, C. E.
Chatham, N. B*	29.70	754.4	29.77	756.1	3	—10.1	91	w.	10	4.5	.....	8 ck	2 ks	w.	w.	0	0	fair.....	G. A. Blair.
Cornwall	30.05	764 3	30.31	769.9	— 3.8	—19.9	100	nw.	.....	.....	1	8 cs	0	.....	.....	0	0	d. clouds....	Jas. Smith, M. A.
Dalhousie	29.69	754.1	29.75	755.6	1.5	—16.9	.....	w.	.....	.....	4	0	5 ks	.....	.....	0	c	d. clouds	H. A. Johnson.
Father Point, Quebec*	29.85	758.2	29.87	758.7	1	—17.2	83	nw.	43	19.2	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy.....	J. McWilliams.
Fort Garry, Manitoba*	29.17	740.9	30.08	764.0	8	—13.3	91	nw.	11	4.9	.....	2 k	5 s	nw.	nw.	0	0	fair.....	James Stewart.
Fredericton	29.81	757.2	29.89	759.2	4.2	—15.4	77	nw.	12	5.4	.....	1 cs	0	.....	.....	0	0	blue sky.....	Prof. Harrison, L. L. D.
Granton	29.31	744 5	30.56	776.2	0.0	—17.8	100	nw.	2	0.9	.....	0	1 8	.....	.....	0	0	blue sky.....	Jas. Grant.
Halifax, N. S*	29.67	753.6	29.81	757.2	14	—10.0	76	w.	10	4.5	.....	8 k	0	w.	.....	0.010	0.3	cloudy	A. Allison.
Hamilton	29.97	761.2	30.40	772.1	12.7	—10.7	79	nw.	.....	.....	2	0	0	.....	.....	0	0	blue sky.....	Geo. Dickson, B. A.
Kingston, Ontario*	30.02	762.5	30.40	772.1	0	—17.8	83	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	30.03	762.7	30.26	768.6	— 3	—19.4	68	w.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	C. H. McLeod, C. E.
Ottawa	30.06	763.5	30.31	770.6	— 3.5	—19.7	91	nw.	.....	.....	1	0	0	.....	.....	0.05	1.3	blue sky.....	A. McGill, M. A.
Parry Sound, Ontario*	29.65	753.1	30.40	773.7	—13	—25.0	91	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	Rev. R. Mosley.
Peterboro	29.62	752.3	30.48	774.2	— 1.6	—18.7	68	w.	.....	.....	3	.....	.....	.....	.....	0.005	0.1	blue sky.....	J. Dixon, B. A.
Port Dover, Ontario	29.73	755.1	30.50	774.7	7	—13.9	100	w.	8	3.6	.....	0	0	.....	.....	0.05	1.3	clear.....	H. Morgan.
Port Stanley, Ontario	29.79	756.7	30.52	775.2	5	—15.0	100	w.	3	1.3	.....	2 cs	0	w.	.....	0.09	2.3	clear.....	M. Payne.
Quebec, Quebec*	29.73	755 1	30.10	764.5	— 9	—22.5	58	w.	.....	.....	3	2 c	0	w.	.....	0	0	fair.....	Capt. Ashe, R. N
Rockliffe, Ontario*	29.83	757.7	30.37	771.4	—17	—27.2	96	w.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	W. H. McIntyre.
Saugeen, Ontario*	29.04	752.8	30.44	773.2	5	—15.0	100	s.	7	3.1	.....	.....	10 ks	.....	.....	0.40	10.2	cloudy.....	
St. Andrews, N. B	29.84	757.9	29.89	757.2	4	—15.6	86	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	
St. John, N. B	29.70	754.4	29.88	758.9	5	—15.0	87	nw.	14	6.3	.....	4 ck	0	.....	.....	0	0	blue sky.....	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.53	750.0	23.0	— 5.0	.....	w.	.....	.....	3	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford	29.07	738.4	29.52	749.8	1.5	—16.9	94	w.	5	2.2	.....	1 cs	2 s	w.	.....	0.050	1.3	blue sky.....	C. J. Macgregor, M. A.
Sydney, C. B*	29.58	751.3	29.65	753.1	18	— 7.8	80	w.	17	7.6	.....	0	8 k	.....	w.	0.23	5.8	fair.....	T. C. Hill, C. E.
Toronto, Ontario*	30.05	763.3	30.48	774.2	6	—14.4	87	calm	0	0	.....	0	2 s	.....	.....	0.01	0.3	clear.....	Magnetic Observatory.
Windsor	29.69	754.1	29.79	756.7	12.0	—11.1	80	w.	14	6.3	.....	.....	10 n	.....	.....	0	0	overcast.....	Prof. W. H. Butler, M. A
Woodstock	29.34	745.2	30.54	775.7	1.7	—16.8	72	s.	6.5	2.9	.....	4 k	0	nw.	.....	0	0	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.86	758.4	29.93	760.2	12	—11.1	70	nw.	24	10.7	.....	.....	10 k	.....	nw.	0	0	fair.....	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Cape Colony.																			
Cape St. Francis Lt. House	29.84	757.9	29.87	758.7	74.0	23.3	89	wsw.	8.3	3.7	.....	0	2 k	.....	.....	0	0	clear.....	John Duthie.
Springbok Fontein	27.85	707.4	.....	.....	83	28.3	79	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. T. Eustace.
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.50	622.4	.....	.....	23.7	— 4.6	.....	nw.	.....	.....	1	.....	0	.....	.....	.....	.....	clear.....	
Tchang-kia-tchouang	30.31	769.9	30.42	772.7	34.7	1.5	81	se.	.....	.....	3	.....	0	.....	.....	0	0	clear.....	R. P. Desurmont, S.J.
Zi-Ka-Wei, near Shanghai	30.45	773.4	30.48	774.1	37.4	3.0	81	ene.	4.5	2.0	.....	.....	10	.....	.....	0	0	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.87	758.6	29.91	759.8	42.3	5.7	90	wnw.	22	10	.....	.....	10	.....	.....	.....	.....	.....	Oversergent Fischer.
Yanoe	30.04	762.9	30.06	763.4	40.8	4.9	97	w.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	28.97	735.9	29.02	737.0	31.3	— 0.4	.....	s.	.....	.....	6	.....	10	.....	.....	.....	.....	snowing.....	S. Kleinschmidt.
Tvigtut, Greenland	29.22	742.2	29.24	742.7	33.1	0.6	.....	sse.	.....	.....	7–8	.....	10	.....	.....	.....	.....	snowing ...	
Jacobshavn, Greenland	29.22	742.3	29.27	743.5	2.5	—16.4	.....	se.	.....	.....	2	.....	7	.....	.....	.....	.....	snowing.....	
Stykkisholm, Iceland	29.97	761.2	30.01	762.3	38.1	3.4	92	se.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	30.06	763.4	30.09	764.3	40.8	4.9	79	nw.	18	8	.....	.....	10	.....	.....	.....	.....	raining.....	Overloerer Berch.
Vestervig	29.89	759.1	29.98	761.4	42.3	5.7	91	wnw.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	29.34	745.1	29.38	746.3	—14.8	—26.0	.....	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	
French.																			
Agen, Normal School	29.95	760.7	30.63	778.0	39.2	4	100	calm	.....	.....	0	.....	fg	.....	.....	0	0	dense fog ...	M. Labroue, Director.
Alençon, Normal School	30.01	762.2	30.56	776.2	41.0	5	94	n.	.....	.....	2	.....	fg	s.	s.	0	0	foggy.....	M. Nicot, Director.
Arras, Engineer School	30.39	771.9	30.61	777.6	48.6	9.2	88	n.	.....	.....	4	.....	10 n	.....	.....	0	0	covered.....	M. Fénéon, Command't.
Avignon, Normal School	30.33	770.3	30.41	772 3	57.9	14.4	44	nw.	.....	.....	2	.....	0	.....	.....	0	0	clear.....	M. Giraud, Director.
Bar-sur-Seine	29.95	760.7	30.52	775.3	46.8	8.2	65	e.	.....	.....	1	5 c	0	.....	.....	0	0	cloudy.....	M. Saillard, Director.
Beauvais, Normal School	30.27	768.8	30.54	775.8	45.1	7.3	77	w.	.....	.....	1	.....	10	.....	w.	0	0	covered.....	M. Frère Eugène Marié.
Besançon, Normal School	29.52	749.9	30.44	773.1	54.3	12.5	61	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	M. Gobin, Director.
Bordeaux, Observatory	30.23	767.9	30.50	774.8	45.0	7.2	89	ssw.	.....	.....	1	.....	0	.....	.....	0.008	0.2	foggy.....	M. Rayet, Director.
Bourges, Normal School	29.98	761.6	30.56	776.2	43.7	6.5	92	s.	.....	.....	1	0	0	.....	.....	0	0	clear.....	M. Malet, Director.
Brest, Naval Observatory	30.38	771.6	30.62	777.8	47.1	8.4	89	ne.	.....	.....	1	.....	6	.....	ne.	0	0	.....	M. de Kermarec, Dir.
Caen, Normal School	30.50	774.7	30.58	776.7	38.8	3.8	100	nne.	.....	.....	1	.....	10	.....	.....	0.004	0.1	covered.....	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.15	765.8	30.48	774.2	45.5	7.5	80	n.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	M. Judot, Director.
Charleville, Normal School	29.92	760.0	30.44	773.2	40.3	4.6	77	n.	.....	.....	3	.....	10	.....	.....	0	0	covered.....	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.11	739.3	30.49	774.5	50.4	10.2	57	n.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	M. Allnard, Director.
Cluny, Normal School	29.65	753.0	30.52	775.1	51.3	10.7	65	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	M. de Villeimontée, Dir.
Commercy, Normal School	29.61	752.1	30.50	774.6	46.9	8.3	56	w.	.....	.....	1	.....	2 s	w.	w.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.84	707.0	30.39	772.0	57.2	14	12	calm	.....	.....	0	.....	.....	n.	n.	0	0	.....	M. Jeangirard, Director.
Gresque, du Rhone	29.26	743.2	30.39	772.0	59.5	15.3	52	nnw.	.....	.....	1	.....	1	.....	n.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.69	754.1	30.48	774.3	53.6	12	56	ese.	.....	.....	1	0	2 ku	.....	.....	0	0	.....	M. Ablard, Director.
Guéret	28.89	733.8	30.51	775.0	50.9	10	60	ne.	.....	.....	1	0	0	.....	.....	0	0	clear.....	M. Delorme, Dir.
Lamballe, Normal School	30.35	770.8	30.63	777.9	39.9	4.4	97	e.	.....	.....	1	.....	10	.....	e.	0	0	covered.....	M. Ollitrault, Director.
Lescar, Normal School	29.97	761 1	30.54	775.8	45.3	7.4	80	n.	.....	.....	1	.....	10	.....	.....	0	0	covered.....	M. Chauvin, Director.
Lorient, Naval Observatory	30.51	775.0	30.61	777.5	48.6	9.2	84	calm	.....	.....	0	.....	hz	.....	.....	0	0	hazy.....	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.41	747.1	30.50	774 8	50.4	10.2	52	ne.	.....	.....	1	0	0	.....	.....	0	0	hazy	M. André, Director.
Mans, Normal School	30.27	768.9	30.60	777.2	41.9	5.5	91	se.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	M. Piboën, Director.
Marseille, Observatory	30.12	765.0	30.39	771.9	57.2	14.0	49	wsw.	.....	.....	1	.....	1	.....	wsw.	0	0	.....	M. Stephan, Director.
Montlouis	25.13	638.4	29.98	761.4	51.4	10.8	21	w.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	M. Tailleu.
Montpellier, Normal School	30.26	768.5	30.39	771.9	53.2	11.8	47	ene.	.....	.....	2	.....	0	.....	.....	0	0	clear.....	M. Gaizin, Director.
Nancy, Normal School	29.63	752.7	30.45	773.5	48.2	9.0	50	wsw.	.....	.....	1	ck	0	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	30.46	773.6	30.63	778.0	41.4	5.2	93	n.	.....	.....	0–1	.....	10	.....	.....	0	0	foggy.....	M. Larocque, Director.
Perpignan, Observatory	30.30	769.6	30.41	772.4	67.1	19.5	20	e.	13.0	5.8	.....	.....	0	.....	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.51	546.3	.....	.....	31.3	— 0.4	.....	ene.	.....	.....	1	.....	1	.....	ene.	0	0	clear.....	M. Vaussenat, Director.
Privas, Normal School	29.38	746.2	30.45	773.5	57.2	14	39	e.	.....	.....	1	1	1	n.	n.	0	0	clear.....	M. Taillen.
Puy de Dôme Obs'y, Summit	25.50	647.8	.....	.....	38.5	3.6	36	ne.	.....	.....	3	.....	0	.....	.....	0	0	clear.....	M. Allnard, Director.
Rochefort, Naval Obs'y	30.50	774.7	30.53	775.4	55.4	13.0	77	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.35	770.9	30.58	776.6	49.3	9.6	81	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	M. Brotier, Director.
Rodez, Normal School	28 25	717.6	30.45	773.3	51.1	10.6	32	se.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	M. Seger, Director.
Rouen, Normal School	30.59	777.0	30.64	778.2	43.5	6.4	88	wnw.	.....	.....	2	.....	10	wnw.	.....	0	0	foggy.....	M. Moullot.
Saint Lô	.....	.....	.....	.....	42.1	5.6	97	calm	.....	.....	0	.....	5	.....	.....	0	0	cloudy.....	M. Delaplanche, Dir.
Saint Maur, Observatory	30.38	771.6	30.54	775.8	41.4	5.2	92	nne.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.80	756.8	30.53	775.4	43.9	6.6	97	nw.	.....	.....	1	.....	10	nw.	.....	0	0	covered.....	M. Baillaud, Director.
Tours	30.38	771.6	30.56	776.1	49.3	9.6	66	ne	.....	.....	1	.....	0	.....	.....	0	0	clear.....	M. de Tastes.
Versailles, Observatory	30.04	763.1	30.54	775.6	37.4	3.0	97	nw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.36	771.2	30.51	775.0	53.8	12.1	73	nw.	9.8	4.4	.....	0	2 k	.....	s.	0	0	.....	M. Cartier, Director.
German.																			
Ansbach	28.91	734.3	30.37	771.5	44.2	6.8	60	w.	.....	.....	2	.....	2	w.	.....	0	0	.....	Prof. Juedt.
Bamberg	29.45	748.1	30.30	769.7	46.4	8.0	73	w.	.....	.....	2	0	3 ks	.....	w.	0	0	.....	Prof. Dr. Hoh
Berlin	30.11	764.7	30.26	768.5	38.1	3.4	84	nw.	.....	.....	3	.....	10	.....	.....	0	0	.....	Meteorological Institute.
Breslau	29.71	754.7	30.25	768.3	39.2	4.0	73	wsw.	.....	.....	2	.....	6	wnw.	.....	0	0	.....	Royal University Obs'y
Carlsruhe	29.97	761.3	30.45	773.4	47.5	8.6	58	sw.	.....	.....	5	.....	5	n.	.....	0	0	hazy.....	Albert Senz.
Cassel	29.59	751.6	30.30	769.7	40.6	4.8	74	sw.	.....	.....	4	.....	10	sw.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	30.00	761.9	30.38	771.6	48.6	9.2	63	wsw.	.....	.....	1	.....	4	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	29.00	736.5	30.50	774.6	40.3	4.6	84	s.	.....	.....	2	.....	4	w.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	30.13	765.2	30.22	767.5	42.4	5.8	87	w.	.....	.....	4	.....	10	.....	.....	0	0	foggy.....	E. Preller.
Kiel	30.10	764.6	30.12	765.0	41.9	5.5	91	wsw.	.....	.....	5	.....	10	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.86	758.4	30.30	769.5	42.1	5.6	69	w.	.....	.....	5	.....	10	w.	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	30.06	763.5	30.26	768.5	39.6	4.2	82	w.	.....	.....	2	.....	10	w.	.....	0	0	hazy.....	Dr. Assmann.
Memel	29.85	758.1	29.89	759.3	33.4	0.8	92	sw.	.....	.....	5	.....	10 ks	.....	.....	.....	.....	snow squall	Issermann.
Munich	28.55	725.2	30.44	773.2	43.5	6.4	52	w.	.....	.....	1	.....	5	w.	.....	0	0	.....	Central Station.
Neufahrwasser	29.98	761.5	30.00	761.9	37.2	2.9	98	sw.	.....	.....	1	.....	10	.....	.....	0.039	1.0	.....	A. Lothes.
Neustadt, Palatinate	29.85	758.2	30.39	771.8	48.6	9.2	66	calm	.....	.....	0	.....	7	w.	.....	0	0	.....	Dieknether.
Stuttgart	29.43	747.6	30.35	770.9	48.7	9.3	55	e.	.....	.....	1	.....	3	nw.	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	30.08	764.0	30.11	764.7	37.4	3.0	91	n.	.....	.....	2	.....	10	.....	.....	0.039	1.0	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.63	752.7	30.04	763.0	40.1	4.5	.....	n.	.....	.....	1.0	.....	10	.....	.....	1.047	26.6	snowing.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.82	757.5	29.87	758.8	77.1	25.1	72	wsw.	12.0	5.4	.....	.....	9	ssw.	.....	0	0	gloomy.....	
Deesa	29.37	746.1	29.84	758.0	88.0	31.1	15	ssw.	3.0	1.3	.....	.....	4	wsw.	.....	0	0	d. clouds...	
Bombay	29.84	757.8	29.87	758.8	78.2	25.7	75	nw.	22.0	9.8	.....	.....	0	.....	.....	0	0	blue sky.....	
Poona, Yarrowda	27.96	710.2	29.77	756.2	90.6	32.6	16	sw.	4.0	1.8	.....	.....	2	w.	.....	0	0	d. clouds	
Belgaum	27.30	693.3	29.79	756.7	84.7	29.3	31	wsw.	7.0	3.1	.....	.....	0	.....	.....	0	0	blue sky.....	
Lahore	29.16	740.7	29.92	760.0	71.7	22.1	30	nw.	4.0	1.8	.....	.....	10	.....	.....	0	0	gloomy.....	
Roorkee	28.97	735.8	29.88	759.0	72.8	22.7	24	w.	3.0	1.3	.....	.....	5	w.	.....	0	0	.....	
Agra	29.33	745.0	29.90	759.4	78.7	25.9	26	s.	.....	.....	.....	.....	8	.....	s.	0	0	d.clouds.....	
Nagpur	28.79	731.3	29.82	757.5	84.9	29.4	30	calm	3.0	1.3	.....	.....	7	sw.	.....	0	0	d. clouds	
Jubbulpore	28.53	724.6	29.89	759.3	76.8	24.9	30	calm	.....	.....	.....	.....	8	.....	ne.	0	0	gloomy.....	
Lucknow	29.53	750.1	29.92	759.8	75.2	24.0	25	w.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky.....	
Allahabad	29.56	750.9	29.88	759.0	75.8	24.3	34	nw.	2.0	0.9	.....	.....	5	w.	.....	0	0	d. clouds....	
Patna	29.68	754.0	29.87	758.8	72.3	22.4	42	calm	2.9	1.3	.....	.....	4	.....	.....	0	0	.....	
Hazaribagh	27.85	707.3	29.89	759.2	70.1	21.2	22	nnw.	3.1	1.4	.....	.....	2	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.81	757.1	29.89	759.2	77.0	25.0	71	ne.	3.0	1.3	.....	.....	6	.....	.....	0	0	d. clouds	
Calcutta, Alipore	29.88	758.9	29.90	759 5	75.3	24.1	59	wsw.	1.0	0.4	.....	.....	0	.....	.....	0.02	0.5	blue sky.....	
Dhubri	29.78	756.3	29.90	759.3	69.4	20.8	45	sw.	1.1	0.5	.....	.....	0	.....	.....	0	0	blue sky.....	
Chittagong	29.83	757.6	29.92	760.0	69.6	20.9	79	se.	4.1	1.8	.....	.....	10	.....	.....	0	0	overcast.....	
Sibsagar	29.59	751.5	29.94	760.3	63.6	17.6	82	se.	2.0	0.9	.....	.....	10	W.	W.	0	0	overcast.....	
Jeypore	28.44	722.5	29.90	759.4	77.1	25.1	25	nw.	3.8	1.7	.....	.....	9	.....	nw.	0	0	d. clouds	
Bellary	28.32	719.3	.....	.....	96.0	35.6	16	w.	4	1.8	.....	.....	0	.....	.....	0	0	blue sky.....	
Trichinopoly	29.03	752.6	.....	.....	90.3	32.4	36	sse.	2	0.9	.....	.....	0	.....	.....	0	0	blue sky ...	
ITALIAN.																			
Udine	29.98	761.6	30.41	772.3	49.1	9.5	53	w.	1.8	0.8	.....	.....	10	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.89	759.1	30.41	772.5	50.7	10.4	46	sse.	2.5	1.1	.....	.....	3	nw.	.....	0	0	.....	Prof. Schiapparelli.
Padua	30.30	769.7	30.42	772.6	49.5	9.7	51	ssw.	5.6	2.5	.....	.....	10	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.48	748.7	30.41	772.3	50.2	10.1	59	nne.	1.3	0.6	.....	.....	0	e.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	30.22	767.5	30.41	772.5	55.9	13.3	42	sw.	4.3	1.9	.....	.....	10	n.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.45	722.7	30.43	772.7	45.7	7.6	62	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. G. Bruno.
Pesaro	30.36	771.1	30.41	772.4	48.2	9.0	58	e.	7.4	3.3	.....	.....	3	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	30.15	765.7	30.41	772.3	53.6	12.0	32	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.84	758.0	30.32	770.2	55.9	13.3	61	sw.	4.9	2.2	.....	.....	9	.....	.....	0	0	.....	Prof. P. Monte.
Rome	30.19	766.8	30.37	771.4	55.6	13.1	26	nne.	.....	.....	.....	.....	0	.....	.....	0	0	.....	Prof. P. Tachini.
Lecce	29.98	761.4	30.24	768.0	45.7	7.6	25	nnw.	28.6	12.8	.....	.....	4	ne.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.37	745.9	30.28	769.2	46.0	7.8	72	nnw.	5.6	2.5	.....	.....	9	nw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.13	765.3	30.33	770.3	59.4	15.2	63	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	30.11	764.8	30.37	771.3	52.9	11.6	38	nne.	14.3	6.4	.....	.....	1	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	30.18	766.6	30.23	767.8	52.0	11.1	53	nne.	17.4	7.8	.....	.....	2	nne.	.....	0.118	3.0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.81	757.2	30.35	770.9	50.9	10.5	37	ne.	9.4	4.2	.....	.....	1	nw.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.35	567.6	.....	.....	28.0	— 2.2	65	se.	.....	.....	2	.....	1	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.40	568.9	.....	.....	34.9	1.6	45	ne.	.....	.....	2	.....	3	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.15	765.7	30.18	766.5	23.9	— 4.5	97	calm	.....	.....	0	.....	10 n	.....	nw.	0.260	6.6	snowing.....	H. Hattori.
Awomori	30.08	764.0	30.12	765.0	23.0	— 5.0	72	w.	17.3	7.7	.....	0	6 s	.....	.....	0.189	4.8	cloudy.....	K. Ogawa.
Hakodate	30.06	763.4	30.07	763.7	23.0	— 5.0	94	wnw.	12.0	5.4	.....	0	8	.....	.....	0	0	cloudy	
Hamamatsu	30.17	766.3	30.20	767.0	37.8	3.2	69	nw.	.....	.....	4	0	0	.....	.....	0	0	clear.....	
Kagoshima	30.37	771.3	30.38	771.6	35.4	1.9	74	n.	.....	.....	2	0	0	.....	.....	0	0	clear.....	G. Miyanohara.
Kioto	30.11	764.9	30.30	769.6	35.3	1.8	82	wnw.	3.8	1.7	.....	0	7 s;ck	.....	.....	0	0	cloudy	M. Tojima.
Kochi	30.28	769.1	30.31	769.9	40.0	4.8	60	n.	8.1	3.6	.....	0	2	.....	n.	0	0	clear.....	K. Kusunose.
Miasaka	30.32	770.1	30.35	770.8	39.3	4.1	65	w.	.....	.....	2	0	2 ck	.....	w.	0	0	clear.....	S. Takehayashi.
Nagasaki, I. M. Obs'y	30.19	766.8	30.41	772.3	35.5	1.9	70	calm	0	0	.....	0	0	.....	.....	0	0	fair.....	K. Masusaki.
Niigata	30.16	766.0	30.19	766.8	29.3	— 1.5	96	nne.	0.8	0.4	.....	0	4 n	.....	.....	0.175	4.4	snowing.....	M. Morita.
Nobiru	30.14	765.6	30.16	766.0	28.1	— 2.2	100	nnw.	2.9	1.3	.....	.....	10 s	.....	.....	0	0	covered.....	R. Midanshima.
Numazu	30.11	764.8	30.14	765.5	37.8	3.2	81	calm	.....	.....	0	0	3 ks	.....	.....	0	0	cloudy.....	R. Kaneda.
Osaka	30.28	769.2	30.30	769.6	36.8	2.5	78	n	9.9	4.4	.....	0	1 ck	.....	.....	0	0	clear....	H. Omura.
Sakai	30.34	770.6	30.35	770.9	36.9	2.7	76	nnw.	.....	.....	2	.....	10 n	.....	nnw.	0.279	7.1	raining.....	K. Yamawchi.
Sapporo	.....	.....	.....	.....	19.0	— 7.7	83	nw.	0.2	c.1	.....	.....	10	.....	.....	0	0	covered	
Tokei Obs'y, Yeddo	30.09	764.4	30.17	766.4	37.4	3.0	73	e.	4.0	1.8	.....	5cs;ck	c	w.	.....	0	0	fair.....	The Staff.
Wakayama	30.25	768.3	30.30	769.7	39.1	3.9	70	n.	6.4	2.9	.....	0	0	.....	.....	0	0	clear.....	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.81	757.2	30.00	762.0	80.3	26.8	63	e.	18.5	8.3	.....	0	7 k;ks	.....	.....	0	0	fair.....	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	58.5	14.7	96	nw.	6.6	3.0	.....	.....	.....	.....	.....	.....	.....	.....	H. Diaz Pena.
Guanajuato	23.81	604.8	30.03	762.8	38.8	3.8	87	ene.	15.9	7.2	.....	.....	10 kn	.....	e.	0.036	0.9	covered.....	Prof. Vicente Fernandez.
Leon	24.46	621.3	30.32	770.1	46.4	8.0	89	ssw.	.....	.....	1	7 c	3 ck	sw.	e.	0.071	1.8	covered	Prof. M. Leal.
Mazatlan	29.81	757.2	30.08	763.9	61.5	16.4	88	ene.	1.6	0.8	.....	2 cs	0	se.	.....	0	0	clear.....	F. Quijano, C. E.
Mexico, Central Obs'y	23.26	590.8	30.54	775.6	38.5	3.6	71	nw.	8.9	4.0	.....	.....	10 n	.....	.....	1.017	25.8	clouding.....	The Staff.
Morelia	24.46	621.2	30.36	771.0	43.3	6.3	71	se.	.....	.....	2	3 c	5 k	s.	ne.	inap.	inap.	cloudy.....	M. Tena, M. D.
Pabellon	24.10	612.1	30.24	768.0	47.8	8.8	69	se.	.....	.....	1	.....	10 n	.....	ese.	0	0	covered.....	
Puebla, Catholic Institute	23.46	595.9	30.43	772.3	41.0	5.0	66	nw.	5.4	2.4	.....	.....	10	.....	sse.	0	0	covered.....	Prof. P. Spina.
Zacatecas	22.69	576.2	30.55	775.9	36.7	2.6	85	e.	3.8?	0.2?	.....	6 cs	4 nk	e.	e.	0	0	covered.....	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.44	773.2	30.44	773.2	45.9	7.7	.....	w.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	30.23	767.9	30.28	769.3	45.5	7.5	.....	w.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.42	772.6	30.42	772.6	45.1	7.3	85	w.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Utrecht	30.35	770.8	30.39	772.0	47.7	8.7	76	w.	.....	.....	2	.....	8	.....	.....	0	0	very cloudy.	H. van der Brink
Sub-series.																			
Batavia, Java	29.88	759.0	.....	.....	79.3	26.3	84	n.	0	0	.....	.....	2	.....	.....	0	0	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	29.91	759.7	29.97	761.3	41.7	5.4	57	nnw.	18	8	.....	.....	6	.....	.....	0.039	1.0	.....	
Brono	29.25	742.9	29.29	743.9	31.3	— 0.4	90	wnw.	.....	.....	8	.....	10	.....	.....	0.252	6.4	snowing.....	
Christiania	29.53	750.1	29.68	753.8	45.7	7.6	35	wnw.	11	5	.....	.....	1	.....	.....	0.020	0.5	.....	
Gjæsvær	28.60	726.4	28.62	727.0	30.2	— 1.0	.....	s.	.....	.....	6	.....	10	.....	.....	.....	.....	snowing	
Lodingen	28.82	732.0	28.87	733.2	25.5	— 3.6	77	wsw.	.....	.....	6	.....	9	.....	.....	0.004	0.1	.....	
PORTUGUESE.																			
Angra, Azores	30.26	768.7	30.42	772.7	60.8	16.0	87	se.	16.8	7.5	.....	.....	4	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.32	744.7	30.32	770.1	64.4	18.0	44	ene.	4.9	2.2	.....	.....	0	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.24	768.2	30.33	770.4	64.6	18.1	61	sw.	5.6	2.5	.....	.....	0	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.02	762.5	30.38	771.7	60.4	15.8	45	nne.	8.7	3.9	.....	.....	1	nne.	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.37	771.3	30.44	773.1	61.9	16.6	73	ese.	13.0	5.8	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	29.64	752.9	29.84	757.9	80.6	27.0	93	n.	0.7	0.3	.....	.....	8	.....	.....	0	0	.....	
Serra da Estrella	25.60	650.2	30.34	770.5	53.6	12.0	14	se.	11.9	5.3	.....	.....	0	.....	.....	0	0	.....	
RUSSIAN.																			
Akmollinski	28.96	735.5	30.14	765.6	7.3	—13.7	71	se.	7	3	.....	1 cs	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.63	752.5	29.65	753.0	21.6	— 5.8	80	w.	2	1	.....	1 cs	0	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashurada	29.81	757.1	29.71	754.7	46.8	8.2	91	wsw.	22	10	.....	.....	10 n	.....	.....	0.020	0.5	.....	
Astrakhan	29.88	758.9	29.80	756.8	34.9	1.6	66	e.	7	3	.....	.....	6 s	.....	.....	0	0	light clouds	Capt. Wisganow.
Baku	29.74	755.4	29.69	754.2	42.8	6.0	93	calm	0	0	.....	.....	9 kn	.....	.....	blank	blank	.....	
Barnaul	29.80	756.8	30.34	770.7	9.0	—12.8	73	sw.	4	2	.....	.....	2	.....	.....	0	0	light clouds	Meteorological Obs'y.
Bielosersk	29.30	745.8	29.85	758.3	23.4	— 4.8	77	wnw.	2	1	.....	.....	10 s	.....	.....	0	0	.....	
Dorpat	29.54	750.4	29.80	756.8	28.8	— 1.8	78	ssw.	11	5	.....	.....	10 n	.....	.....	0.157	4.0	.....	Observatory.
Ekaterinburg	28.92	734.6	29.93	760.2	25.7	— 3.5	74	wsw.	9	4	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Elissawetgrad	29.53	750.0	29.97	761.1	27.5	— 2.5	85	nnw.	11	5	.....	.....	10 n	.....	.....	0.028	0.7	.....	
Irkutsk	29.02	737.1	30.86	783.9	5.5	—14.7	71	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	
Kasalinsk	29.34	745.3	29.52	749.8	24.4	— 4.2	83	ene.	4	2	.....	.....	10 s	.....	.....	.....	.....	.....	
Kasan	29.64	752.9	29.93	760.1	20.5	— 6.4	78	sse.	4	2	.....	.....	10	.....	.....	blank	blank	.....	Observatory.
Kem	29.43	747.4	29.48	748.7	21.0	— 5.8	74	s.	31	14	.....	.....	10	.....	.....	0.020	0.5	heavy cld's.	
Kertch	29.78	750.5	29.80	757.0	29.8	— 1.2	94	ne.	4	2	.....	.....	10 n	.....	.....	0	0	.....	Lagerio & Sastyres.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
Russian.—Continued.																			
Kieff	29.37	746.1	30.05	763.3	24.1	— 4.4	68	n.	7	3		ck	3 ks			inap.	inap.		Observatory.
Koslov	29.39	746.4	29.95	760.7	24 6	— 4.1	100	ssw.	2	1			10 s			blank	blank	foggy	
Libau	29.77	756.2	29.80	756.8	33.8	1.0	98	ssw.	16	7.2			10			0.020	0.5		E. Quaas.
Lugan	29.66	753.4	29.86	758.4	28.0	— 2.2	71	n.	4	2			10			0.055	1.4		Meteorological Obs'y.
Moscow	29.42	747.3	29.93	760.2	23.7	— 4.6	87	nw.	7	3			10 s			0	0		Meteorological Obs'y
Nikolaiev	29.88	758.9	29.95	760.8	33.4	0.8	85	n.	22	10		0	7 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.67	753.5	29.75	755.7	0.3	—17.6	62	calm	0	0			5			0.028	0.7		Iwanow.
Pekin, China	30.22	767.6	30.37	771.4	34.2	1.2	59	sw.	7	3		0	c			0	0		Physical Observatory.
Petro-Alexandrovsk	29.41	747.1	29.76	755.9	56.8	13.8	37	ene.	1.1	0.5			9 ks			0	0		
Petrozavodsk	29.50	749.2	29.71	754.5	25.2	— 3.8	66	sw.	11	5		0	5 ks			0.039	1.0		Dr. Bergmann.
Pinsk	29.62	752.3	30.06	763.5	30.9	— 0.6	68	w.	13	6		2 ck	0			0.004	0.1		
Poti	29.66	753.4	29.68	753.9	47.8	8.8	84	sw.	4	2		0	7 n			0.020	0.5		
St. Petersburg	29.77	756.1	29.78	756.5	22.1	— 5.5	70	sse.	9	4			10			0.004	0.1		Central Physical Obs'y.
Samarkand	27.41	696.1	29.88	759.0	49.5	9.7	68	n.	3.4	1.5		0	0						
Semipalatinsk	29.65	753.2	30.39	771.8	— 0.8	—18.2	77	e.	4	2			0			0	0		Major Lasarew.
Sevastopol	29.61	752.0	29.84	757.9	37.0	2.8	69	nne.	20	9			9 s			0.008	0.2		
Staroi Bykhov	29.60	751.8	30.08	764.1	26.8	— 2.9	68	nw.	7	3			10			0.031	0.8	light snow..	
Tashkend	28.29	718.6	30.00	762.0	41.7	5.4	67	ne.	13	6		1 c	0			0	0		Terch, A. M.
Tiflis	28.30	718.7	29.72	755.0	41.2	5.1	85	se.	2	1			10			0.130	3.3		Physical Observatory.
Vernoe	27.40	695.9	30.05	763.3	21.7	— 5.7	75	calm	0	0		0	0						
Viatka	29.15	740.3	29.82	757.3	16.2	— 8.8		ssw.	2	1			8			0	0		
Vladivostock	30.23	767.9	30.30	769.6	— 1.5	—18.6	40	calm	0	0			0			0	0		
Warsaw	29.74	755 3	30.18	766.6	31.6	— 0.2	87	wsw.	13	6			10			0.130	3.3	heavy clouds	Astronomical Obs'y.
Wilna	29.62	752.4	30.06	763.5	30.9	— 0.6	75	ssw.	2	1			10			0.047	1.2		Berg, Assistant.
Yeniseisk	30.05	763.3	30.37	771.4	7.7	—13.5	72	s.	2	1			4			0	0		M. O. Marks.
Scottish.																			
Monach Lt			30.32	770.1	48	8.9	92	wnw.			3	5	0	nw.		0.5	13.		J. Youngclauss.
North Unst			30.06	763.5				nw.			6	4	2	nw.					Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.27	768.8	30.36	771.2	59.0	15.0	59	s.	1.3	0.6		0	0			0	0	hazy.	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.47	773.9	30.53	775.4	57.2	14.0	73	w.	1.8	0.8		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.44	696.9	30.42	772.7	56.3	13.5	25	ne.	9.4	4.2		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.13	714.6	30.36	771.1	64.0	17.8	31	e.	4.9	2.2		0	0			2	0	clear	The Staff.
Murcia, Met. Obs'y	30.21	767.3	30.31	769.9	67.6	19.8	55	e.	2.2	1.0		0	0			0	0	clear	Olnyo Diaz, Director.
Oviedo	29.61	752.2	30.49	774.5	42.8	6.0	87	n.	3.2	1.4		0	0			0	0	clear	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.44	747.8	30.33	770.4	63.9	17.7	56	calm	0	0			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	30.00	762.0	30.06	763.5	77.2	25.1	61	ne.	5.5	2.5			0			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.23	767.9	30.33	770.4	67.3	19.6	57	w.	3.6	1.6		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.01	762.2	30.10	764.5	72.0	22.2	88	w.	3.8	1.7		2 cs	3 k	s.	w.	0	0	clear	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	29.01	736.8	29.65	737.8	30.9	— 0.6	88	sw.			4		10			0	0		
Umea	29.21	741.9	29.26	743.2	38.1	3.4	76	wsw.			4		10			0.079	2.0		
Hernosand	29.37	746.0	29.42	747.3	36.0	2.2	65	nw.			7		10			0	0		
Stockholm	29.37	746.0	29.55	750.5	38.1	3.4	78	w.			4		10			0	0		
Wisby	29.00	751.7	29.65	753.2	38.8	3.8	83	wsw.			4		10			0.024	0.6		
Sub-series.																			
Upsala	29.45	748.0	29.54	750.2	38.1	3.4	82	w.	6.3	2.8			10		w.	0.024	0.6		S. G. Fineman.
Swiss.																			
Geneva	29.03	737.4	30.48	774.2	45.7	7.6	56	n.			2		1			0	0	clear	The Observatory.
Turkish.																			
Constantinople			29.90	759.5	36.9	2.7	67	n.	34	15.2			10		n.	0.091	2.3	snowing	The Observatory.
Valona			30.22	767.5	47.7	8.7		nw.			2		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.65	753.0	52.9	11.6	85	sw.			5		10 n		sw.	1.67	42.4	thn'dr & l'tng	Prof. C. V. A. van Dyck.
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	30.20	767.1	30.29	769.4	14	—10.0	64	nw.	8	3.6		7 c	0	nw.		inap.	inap.	fair	J. O. Barnes.
Alpena, Michigan	29.72	754.9	30.43	772.9	— 2	—18.9	65	w.	10	4.5			10 s			0.02	0.5	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.29	642.4	30.39	771.9	23	— 5.0	74	ne.	1	0.4		0	6 s			0	0	fair	W. O. Barnes.
Assinnaboine, Ft., Montana	27.44	697.0	30.48	774.2	21	— 6.1	61	sw.	22	9.8		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.38	746.2	30.00	777.2	28.5	— 1.9	60	nw.	9	4.0		1 cs	0			0	0	clear	H. C. Smyth.
Atlantic City, New Jersey	30.34	770.6	30.35	770.9	19	— 7.2	53	nw.	16	7.2		1 k	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.39	771.9	30.59	777.0	37	2.8	61	nw.	2	0.9		1 c	0	w.		0	0	clear	John Healy.
Baltimore, Maryland	30.43	772.9	30.48	774.2	23	— 5.0	61	nw.	6	2.7		0	0			0	0	clear	Geo. W Felger.
Barnegat, New Jersey	30.32	770.1	30.34	770.6	20.0	— 6.7	76	n.	27	12.1		3 k	0	n.		0	0	clear	G. A. Hill.
Behring Id., Behring Sea	29.91	759.7	29.93	760.2	31.4	— 0.3		s.	3	1.3			10 n			0.07	1.8	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.66	728.0	30.39	771.9	35	1.7	72	calm	0	0		0	1 s		nw.	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.50	698.5	30.50	774.7	27	— 2.8	56	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	27.12	688 8			29	— 1.7	67	nw.	13	5.8		0	0			0	0	clear	T. Gibson.
Bismarck, Dakota	28.35	720.1	30.33	770.4	28	— 2.2	88	nw.	16	7.2		1 c	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.18	766.6	30.21	767.3	17	— 8.3	51	nw.	34	15.2		0	3 ks		nw.	0	0	clear	J. T. Elker.
Boise City, Idaho	27.58	700.5	30.54	775.7	27	— 2.8	84	nw.	3	1.3		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.99	761.7	30.15	765.8	13.0	—10.6	61	nw.	14	6.3		0	0			0	0	clear	O. B. Cole.
Brownsville, Texas	30.53	775.4	30.58	776.7	48.7	9.3	76	n.	11	4.9		6 cs	0	s.		0.05	1.3	fair	M. McCarty.
Buffalo, New York	29.65	753.1	30.45	773.4	8.8	—12.9	85	sw.	16	7.2		0	9 s		nw	0.01	0.3	cloudy	W. Finn.
Buford, Fort, Dakota	28.28	718.3	30.46	773.7	20	— 6.7	87	calm	0	0		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.96	761.0	30.27	768.8	3.0	—16.1	72	nw.	9	4.0		6 cs	1 s	w.	nw.	0.02	0.5	fair	D. N. Farnell.
Cairo, Illinois	30.32	770.1	30.74	780.8	30.0	— 1.1	68	ne.	2	0.9		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.48	774 2	30.50	774.7	30	— 1.1	53	nw.	34	15.2		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.39	771.9	30.42	772.7	22.0	— 5.6	44	nw.	40	17.9		0	5 k		nw.	0	0	fair	W. E. Smith.
Cape Mendocino, California	29.50	749.3	30.20	767 1	53	11.7	72	ne.	8	3.6		5 ck	0	nw.		0	0	fair	J. J. McLean.
Cedar Keys, Florida	30.47	773.9	30.49	774.4	49	9.4	37	n.	12	5.4		8 ck	0			0	0	cloudy	F. W. Mixer.
Champaign, Illinois	29.75	755.6	30.62	777.7	15.3	— 9.3	65	sw.	5	2.2			10 s		sw.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.44	773.2	30.50	774.7	49	4.4	57	nw.	10	4.5		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.64	752.8	30.53	775.4	31.8	— 0.1	40	nw.	6	2.7		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.80	756.9	30.66	778.7	30.0	— 1.1	64	nw.	6	2.7		1 cs	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.37	619.0	30.62	777.7	27.1	— 2.7	51	nw.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.81	757.2	30.56	776.2	13.0	—10.6	65	sw.	7	3.1		0	0			inap.	inap.	clear	J. Mitchell.
Chincoteague, Virginia	30.40	772.1	30.42	772.7	25	— 3.9	37	nw.	38	17 0		0	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.98	761.5	30.67	779.0	22	— 5.6	73	w	3	1.3		0	7 k		w.	0	0	fair	R. B. Watkins.
Cleveland, Ohio	29.74	755.4	30.53	775.4	17.5	— 8.1	83	nw.	13	5.8			9 k		nw.	0.02	0.5	cloudy	J. B. Newlin.
Coleman City, Texas																			L. Dorman.
Columbus, Ohio	29.70	754.4	30.60	777.2	20	— 6.7	84	w.	5	2.2		0	8 ks		w.	inap.	inap.	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.69	728.7	30.71	780.0	39.0	3.9	92	calm	0	0		0	5 s			0	0	fair	J. McGlone.
Davenport, Iowa	29.81	757.2	30.51	774.9	22	— 5.6	58	sw.	9	4.0			10 s			0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.62	650.7	30.58	776.7	32	0.0	81	n.	8	3.6			10 s			0.01	0.3	cloudy	J. Williams.
Dayton, Washington T'y	28.66	728.0	30.46	773.7	28	— 2.2	77	sw.	1	0.4		0	0			0	0	clear	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	OBSERVERS
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.67	652.0	30.59	777.0	33	0.6	81	sw.	1	0.4			10 s			0	0	cloudy	F. Willson.
Delaware Breakwater, Del.	30.40	772.1	30.42	772.7	23	— 5.0	73	nw.	38	17.0		0	2 k		nw.	0	0	clear	T. S. Townsend.
Denison, Texas	29.90	759.4	30.74	780.8	36.0	2.2	69	n.	2	0.9		0	0			0	0	clear	J. W. Byram.
Denver, Colorado	25.10	637.5	30.62	777.7	32.5	0.3	65	s.	3	1.3		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.48	748.8	30.46	773.7	25	— 3.9	73	sw.	10	4.5		0	3 s			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.76	755.9	30.52	775.2	18.0	— 7.8	91	w.	4	1.8		0	0			0.02	0.5	clear	E. R. Brace.
Dodge City, Kansas	27.88	708.1	30.62	777.7	29	— 1.7	67	sw.	8	3.6		0	0			0	0	clear	V. P. Temple.
Dubuque, Iowa	29.70	754.4	30.46	773.7	16.8	— 8.4	58	calm	0	0			10 s		se.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.27	743.4	30.08	764.0	19	— 7.2	84	sw.	2	0.9			10 s		sw.	0.06	1.5	cloudy	N. B. Conger.
Eagle Pass, Texas	29.89	759.2	30.73	780.5	42.1	5.6	83	nw.	5	2.2		0	2 s			0.01	0.3	clear	F. Belford.
Eagle Rock, Idaho	25.70	652.8	30.60	777.2	— 2	—18.9	72	n	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.87	758.7	29.94	760.5	4.0	—15.6	58	nw.	17	7.6		1 c	0	w.		0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.78	705.6	30.68	779.3	31	— 0.6	62	w.	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.72	678.7	30.60	777.2	37.0	2.8	82	e.	8	3.6			10 s		e.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.74	755 4	30.51	774.9	11	—11.7	80	nw.	9	4.0		7 k	0	nw		0.03	0.8	fair	Peter Wood.
Escanaba, Michigan	29.58	751.3	30.30	769.6	6.5	—14.2	87	s.	8	3.6			10 s		s.	0	0	threatening	George Heathcote.
Fredericksburg, Texas	28.87	733.3	30.67	779.0	45	7.2	68	ne.	4	1.8		10 c	0			0	0	cloudy	Frank Halwegler.
Galveston, Texas	30.58	776.7	30.63	778.0	50	10.0	64	ne.	9	4.0		2 c	0	sw.		0	0	fair	E. O'C. Macluermay.
Grand Haven, Michigan	29.75	755.6	30.46	773.7	20.0	— 6.7	84	sw.	14	6.3			10 s		sw.	0.02	0.5	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.44	646.2	30.30	769.6	37	2.8	58	e.	35	15.6			0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.38	771.6	30.40	772.1	37	2.8	61	nw.	18	8.0		hz.	3 k			0	0	clear	R. M. Crawford.
Helena, Montana	26.14	663.9	30.54	775.7	22	— 5.6	87	calm	0	0		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.66	753.4	30.71	780.0	35	1.7	79	n.	1	0.4		0	0			0	0	clear	J. P. Sherry.
Huron, Dakota	28.82	732.0	30.34	770.6	23.3	— 4.8	73	s.	7	3.1		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.80	756.9	30.05	778.5	17.5	— 8.1	60	w.	4	1.8		0	0			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.60	777.2	30.63	778.0	49.4	9.7	64	n.	19	8.5		7 cs	0	sw.		0	0	fair	I. A. Reed.
Jacksboro, Texas	29.51	749.5	30.75	781.0	34	1.1	61	calm	0	0		0	0			0	0	clear	D. J. Carr.
Jacksonville, Florida	30.47	773.9	30.52	775.2	46	7.8	48	n	6	2.7		5 cs	0			0	0	fair	J. W. Smith.
Keogh, Fort, Montana	27.79	705.9	30.47	773.9	21	— 6.1	73	calm	0	0		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.88	758.9	30.58	776.7	24.0	— 4.4	61	sw.	5	2.2		1 k	0	s.		0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.17	766.3	30.19	766.8	67.0	19.4	84	ne.	39	17.4			10k;ks		ne.	inap.	inap.	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.40	772.1	30.42	772.7	33	0.6	45	n.	22	9.8		0	3 k		n.	0	0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	29.59	751.6	30.67	779.0	24.5	— 4.2	73	n.	8	3.6		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.44	747.8	30.28	769.1	18	— 7.8	83	s.	17	7.6			10 s			0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.64	752.8	30.59	777.0	31	— 0.6	78	s.	10	4.5		0	0			inap.	inap	clear	A. W. Browne.
Lewiston, Idaho	29.65	753.1	30.52	775.2	32.0	0.0	78	e.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	30.51	774.9	30.84	783.3	39	3.9	53	n.	2	0.9		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.74	755.4	30.14	765.5	57	13.9	32	ne.	7	3.1		5 c	0	sw.		0	0	fair	T. S. Collins.
Louisville, Kentucky	30.07	763.8	30.66	778.7	27	— 2.8	54	w	4	1.8		1 k	0	w.		0	0	clear	L. M Dey.
Lynchburg, Virginia	29.70	755.9	30.48	774.2	28.5	— 1.9	44	nw.	8	3.6		0	0			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.07	753.6	30.37	771.4	3.0	—16.1	72	sw.	9	4.0		10 cs	0			0	0	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.41	772.4	30.42	772.7	37.0	2.8	82	nw.	18	8.0		0	0			0	0	clear	William Daly.
Madison, Wisconsin	29.35	745.5	30.44	773.2	14	—10.0	64	sw.	9	4.0		10 cs	hz.	w.		inap.	inap.	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.84	656.3	30.38	771.6	41	5.0	43	w.	5	2.2		0	0			0	0	clear	F. Burke.
McKavett, Fort, Texas	28.36	720.3	30.74	780.8	41	5.0	76	ne.	3	1.3		8 ck	0			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.44	747.8	30.22	767.6	11	—11.7	66	sw.	8	3.6			10 s			0.01	0.3	cloudy	J. Gilligan.
Memphis, Tennessee	30.39	771.9	30.74	780.8	33	0.6	78	ne.	4	1.8		0	fg.			0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.66	753.4	30.46	773.7	12	—11.1	80	sw.	13	5.8			10 s			0	0	cloudy	W. Line.
Missoula, Fort, Montana	27.15	689.6	30.58	776.7	18	— 7.8	58	calm	0	0		0	0			0	0	clear	I. H. Young.
Mobile, Alabama	30.58	776.7	30.62	777.7	42	5.6	46	n.	9	4.0		6 cs	0	sw.		0	0	fair	C. A. Read.
Montgomery, Alabama	30.38	771.6	30.62	777.7	37.2	2.9	82	ne.	6	2.7		3 cs	0			0	0	clear	J. B. McLaughlin
Moorhead, Minnesota	29.08	738.6	30.18	766.6	23	— 5.0	88	nw.	5	2.2		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.55	750.6	30.62	777.7	21.5	— 5.8	62	nw.	16	7.2		0	3 s		nw.	0.06	1.5	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.07	586.0	29.69	754.1	—26.0	—32.2	100	nw.	80	35.8			fg.		nw.	0.17	4.3	dense fog	S. W. Beall.
Nashville, Tennessee	30.08	764.0	30.69	779.5	27.0	— 2.8	64	n.	6	2.7		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.12	765.0	30.24	768.1	14.5	— 9.7	68	nw.	7	3.1		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.21	767.3	30.26	768.6	16	— 8.9	48	nw.	16	7.2		1 c	0	nw.		0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.55	776.0	30.61	777.5	47.0	8.3	35	n.	16	7.2		10 cs	0			0	0	cloudy	L. Dunne.
Newport, Rhode Island	30.13	765.3	30.18	766.6	18.0	— 7.8	67	nw.	21	9.4		4 k	0	nw.		0.02	0.5	fair	W. McGillivray.
New York, New York	30.13	765.3	30.32	770.1	17	— 8.3	67	w.	13	5.8		0	1 k		w.	inap.	inap.	clear	J. B. Merrill.
Norfolk, Virginia	30.43	772.9	30.46	773.7	32	0.0	50	n.	12	5.4		0	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.46	697.5	30.56	776.2	26.6	— 3.0	74	w.	8	3.6		0	2 s			0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.22	767.6	30.26	768.6	38.0	3.3	82	calm	0	0			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	29.21	741.9	30.48	774.2	32.0	0.0	78	s.	4	1.8		0	0			inap.	inap.	clear	A. Pollak.
Oogiaamie, Alaska	30.20	767.1	33.22	767.6	22.9	—30.5		se.	4	1.8		hz.	5 s			0	0	fair	P. H. Ray.
Oswego, New York	30.02	762.5	30.37	771.4	9.0	—12.8	76	nw.	16	7.2			10 s		nw.	0	0	cloudy	J. G. Linsley.
Palestine, Texas	30.14	765.5	30.72	780.3	40.5	4.7	52	ne.	9	4.0		3 cs	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.58	776.7	30.61	777.5	41.0	5.0	48	n.	8	3.6		3 cs	0	w.		0	0	clear	M. McGauran.
Philadelphia, Pa	30.30	769.6	30.41	772.4	21	— 6.1	58	nw.	16	7.2		0	1 k		nw.	inap.	inap.	clear	E. M. Mattison.
Pike's Peak, Colorado	18.01	457.4	30.73	780.5	6	—14.4	55	sw.			1	0	0			0	0	clear	H. Hall.
Pioche, Nevada	24.30	617.2	30.46	773.7	29.8	— 1.2	54	nw.	7	3.1		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.69	754.1	30.55	776.0	16.5	— 8.6	83	w.	12	5.4		0	0			0.05	1.3	clear	W. A. Reid.
Poplar River, Montana	28.12	714.2	30.47	773.9				nw.			4	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.55	776.0	30.56	776.2	51.2	10.7	63	ne.	26	11.6		7 cs	0	w.		0	0	fair	H. B. Boyer.
Port Huron, Michigan	29.73	755.1	30.46	773.7	8.4	—13.1	87	w.	6	2.7		0	0			inap.	inap.	clear	W. O. Bailey.
Portland, Maine	30.03	762.7	30.08	764.0	12.0	—11.1	61	nw.	4	1.8		7 c	0	nw.		inap.	inap.	fair	W. W. Eichelberger
Portland, Oregon	30.22	767.6	30.29	769.4	44.8	7.1	56	calm	0	0		10 k	0	se.		0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					37	2.8	82	nw.	13	5.8		1 c	hz.	sw.		0	0	clear	F. S. Coburn.
Prescott, Arizona	24.96	634.0	30.32	770.1	38.0	3.3	74	e.	8	3.6		0	1 s			0	0	clear	Jas Cassidy.
Provincetown, Mass.	30.08	764.0	30.11	764.8	16	— 8.9	67	nw.	20	8.9		0	6 s		nw.	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.33	770.4	30.34	770.6	53	11.7	33	ne.	22	9.8		10c;ck	0	sw.;w.		0	0	cloudy	W. J. Evans.
Red Bluff, California	29.86	758.4	30.23	767.8	47	8.3	63	nw.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.69	754.1	30.40	772.1	8.5	—13.1	100	nw.	18	8.0			10 n		nw.	0.06	1.5	light snow	E. W. McGann
Roseburg, Oregon	29.70	754.4	30.26	768.6	42.3	5.7	84	s.	1	0.4		10 c	0	w.		0	0	cloudy	J. J. Nanry.
Sacramento, California	30.13	765.3	30.21	767.3	48.7	9.3	82	calm	0	0		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	30.07	763.8	30.71	780.0	23.0	— 5.0	93	nw.	5	2.2		0	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.14	765.5	30.18	766.6	—11	—23.9	100	calm	0	0		0	0			0	0	clear	A. P. Leavitt
St. Paul, Minnesota	29.20	741.7	30.14	765.5	26.0	— 3.3	82	sw.	6	2.7		9 k	0			0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.15	740.4	30.12	765.0	16	— 8.9	83	nw.	8	3.6		0	0			0	0	clear	C. B Dilley.
Salt Lake City, Utah	26.04	661.4	30.60	777.2	29	— 1.7	49	w.	2	0.9		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.94	760.5	30.66	778.7	46.5	8.1	63	n.	6	2.7		5 k	0			0	0	fair	T. J. Kenan.
San Diego, California	30.00	762.0	30.07	763.8	54.5	12.5	31	ne.	6	2.7		10c;cs	0	w.		0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.82	757.4	30.54	775.7	19	— 7.2	70	w.	12	5.4		0	0			0.05	1.3	clear	M. H. Perry.
Sandy Hook, New Jersey	30.29	769.4	30.32	770.1	18.0	— 7.8	67	nw.	30	13.4		1 k	0			0.01	0.3	clear	B. A. Blundon.
San Francisco, California	30.13	765.3	30.20	767.1	53.5	11.9	80	n.	3	1.3		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.57	598.7	30.65	778.5	30	— 1.1	62	ne.	5	2.2		4 k	6 s	e.	e	0	0	cloudy	H. U. Jones.
Savannah, Georgia	30.44	773.2	30.53	775.4	41	5.0	48	nw.	12	5.4		1 c	0	w.		0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.65	676.9	30.50	774.7	39	3.9	50	w.	1	0.4		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.44	773.2	30.09	779.5	41	5.0	48	n.	4	1.8		0	1 s			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	29.44	747.8	30.75	781.0	35	1.7	66	nw.	1	0.4		0	0			0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.56	623.8	30.41	772.4	33.5	0.8	80	se.	6	2.7			10 s			0.04	1.0	cloudy	N. D. Lane.
Sitka, Alaska	29.76	755.9	29.82	757.4	40.2	4.6	86	e.	2	0.9			10 n		e.	0.36	9.1	light rain	F. W. Fickett.
Smith, Fort, Arkansas	30.23	767.8	30.73	780.5	31.0	0.6	78	e.	2	0.9		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.44	773.2	30.48	774.2	34	1.1	78	n.	5	2.2		0	0			0	0	clear	O. Parker.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.37	720.6	30.50	774.7	22	— 5.6	92	calm	0	0	.....	0	0	.....	....	0	0	clear.....	H. Clifford.
Springfield, Illinois.....	29.91	759.7	30.64	778.2	24	— 4.4	73	sw.	7	3.1	.....	0	4 s	.....	nw.	0	0	fair.....	T. B. Jennings.
Springfield, Missouri.....	29.17	740.9	30.68	779.3	27.0	— 2.8	77	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Starkville, Miss.....	30.19	766.8	30.69	779.5	32	0.0	60	n.	10	4.5	.....	0	3 s	.....	.....	0	0	clear.....	C. Dill.
Stevenson, Fort, Dakota.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Schneider.
Stockton, Fort, Texas	27.54	699.5	30.67	779.0	37	2.8	92	e.	1	0.4	.....	10 cs	0	.....	.....	0.39	9.9	cloudy.....	A. J. Warren.
Thatcher's Island, Mass.....	30.10	764.5	30.16	766.1	10.0	—12.2	68	nw.	31	13.9	.....	5 k	0	nw.	.....	0	0	fair.....	G. Liebmann.
Thomas, Camp, Arizona.....	27.61	701.3	30.44	773.2	46	7.8	76	e.	.....	.....	4	2 ck	3 ks	.....	.....	0	0	fair.....	J. T. Fitzgerald.
Toledo, Ohio.....	29.78	756.4	30.52	775.2	19	— 7.2	70	sw.	12	5.4	.....	0	0	.....	.....	0.02	0.5	clear.....	A. Buell.
Tucson, Arizona.....	27.75	704.8	30.23	767.8	50	10.0	55	e.	16	7.2	.....	2 ck	0	.....	.....	0	0	clear.....	J. L. Whiteside.
Umatilla, Oregon.....	30.15	765.8	30.53	775.4	27	— 2.8	88	se.	1	0.4	.....	2 c	0	.....	.....	0	0	clear.....	J. Daly.
Verde, Fort, Arizona.....	.....	.....	.....	.....	44	6.7	14	ne.	.....	.....	1	0	0	.....	.....	0	0	clear.....	O. L. Pease.
Vicksburg, Mississippi	30.41	772.4	30.68	779.3	39.6	4.2	51	ne.	2	0.9	.....	7 c	0	w.	.....	0	0	fair.....	James Kenealy.
Visalia, California.....	29.81	757.2	30.19	766.8	44.3	6.8	68	s.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	O. B. Stewart.
Washakie, Fort, Wyoming.	24.86	631.4	30.62	777.7	— 5.0	—20.6	79	w.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	T. M. Ambler.
Washington, D. C.....	30.37	771.4	30.49	774.4	21.5	— 5.8	72	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	R. M. Parsell.
West Las Animas, Colorado	25.47	672.3	30.60	777.2	19	— 7.2	70	w.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	F. H. Brandenburg.
Williamsport, Pa.....	29.78	756.4	30.41	772.4	15.5	— 9.2	57	nw.	8	3.6	.....	0	4 ks	....	nw.	0	0	fair.....	B. F. Hough.
Wilmington, N. Carolina...	30.43	772.9	30.49	774.4	38	3.3	61	n.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	Samuel A. Haney.
Winnemucca, Nevada.....	25.91	658.1	30.43	772.9	32.0	0.0	62	::	8	3.6	.....	0	0	.....	.....	0	0	clear.....	J. Grover.
Yankton, Dakota.....	28.92	734.6	30.34	770.6	33	0.6	68	w.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	J. H. Atfield.
Yuma, Arizona.....	29.96	761.0	30.11	764.8	62.0	16.7	48	ne.	14	6.3	.....	4 cs	0	s.	.....	0	0	fair.....	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia.....	22.02	559.3	.....	.....	56.0	13.3	77	ne.	1	0.4	.....	4 k	3 s	e.	ne.	0	0	fair.....	Joaquin Gomez.
Kingston, Jamaica, W. I....	30.08	764.0	30.09	764.3	73	22.8	81	calm	0	0	.....	.....	10 s	.....	e.	0	0	cloudy.....	Robert Johnston.
Paramaribo, S. A.....	30.04	763.0	30.04	763.0	74	23.3	95	ne.	.....	.....	2	.....	10 n	e.	e.	0.060	1.5	raining.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.37	745 0	29.92	760.0	81	27.2	88	n.	.....	.....	1	9 c	0	calm	.....	0	0	cloudy.....	Francisco J. Cisneros.
Rivas, Nicaragua, C. A....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.77	756.1	29.83	757.7	28	— 2.2	84	calm	.....	.....	0	0	8 ke	.....	.....	0.08	2.0	snowing.....	W. J. Fisher.
St. Thomas, W. I.....	30.02	762.5	30.15	765.8	76	24.4	79	e.	.....	.....	.....	0	2 k	.....	e.	0	0	clear.	Aug. Wallog.
Havana, Cuba.....	30.06	763.5	30.13	765.3	69.9	21.1	94	e.	9	4.0	.....	.....	10 k; n	.....	ne.	0.21	5.3	heavy rain..	Benito Vines, S. J.
York Factory, B. A.....	30.37	771.4	30.44	773.2	— 6.5	—21.4	80	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	Fortesque & Wood.

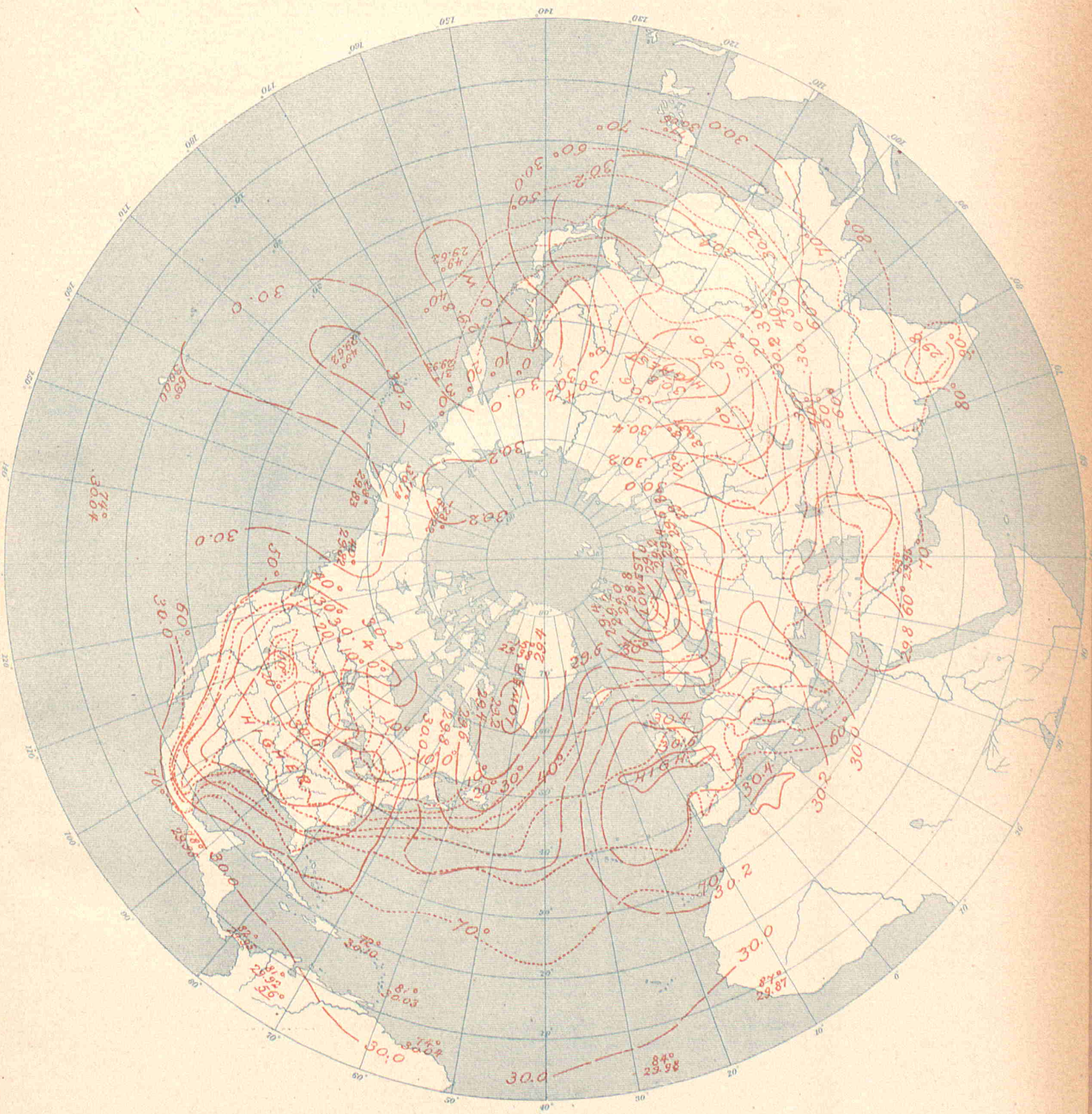
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Sea-swell. Character.	Direction from	Weather.
District No. 1—North Atlantic.																		
H. M. Dock Yard, Bermuda, W. I.....	30.06	763.5	61	16.1	66	wnw.	.....	.....	1–2	.....	9	wnw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Fawn, N. 43° 58′, W. 21° 10′.....	30.56	776.2	58	14.4	93	calm	.....	.....	0	.....	10	.....	.....	.....	.....	1	sw.	misty.
H. M. S. Monarch, Port Said, Egypt	29.78	756.4	51	10.6	?	ssw.	.....	.....	7	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Minotaur, N. 40° 58′, W. 10° 06′	30.38	771.6	60	15.6	70	nnw.	.....	.....	2	.....	1	.....	.....	.....	.....	1	wnw.	blue sky.
H. M. S. Tyne, N. 16° 54′, W. 68° 24′	30.04	763.0	77	25.0	82	ene.	.....	.....	2–3	.....	5	ne.	.....	.....	.....	3	ene.	d. clouds.
H. M. Frigate Vanadis, N. 38° 39′, E. 7° 21′.....	30.32	770.2	61.5	16.4	75	sse.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
U. S. Navy Yard, Portsmouth, N. H*.....	30.15	765.8	9	—12.8	?	nw.	19	8.5	.....	.....	0	.....	.....	0	0	.....	.....	hazy.
U. S. S. Alliance, N. 21° 08′, W. 75° 39′.....	30.06	763.5	76	24.4	100	ene.	.....	.....	3	.....	2	.....	.....	light	light	sm'h	.....	clear.
U. S. S. Juniata, N. 35° 31′, E. 17° 14′ *.....	30.28	769.1	52	11.1	93	n.	.....	.....	7	.....	2	.....	.....	n.	o	r'gh	ene.	clear.
U. S. S. Kearsarge, Cartagena, U. S. C.....	29.88	758.9	76	24.4	90	ene.	.....	.....	2	.....	8	.....	.....	calm	.....	.....	.....	hazy.
U. S. S. Lancaster, Southampton, Eng.....	30.49	774.4	47	8.3	92	nw.	.....	.....	3	.....	10	.....	.....	nw.	.....	sm'h	.....	misty.
U. S. S. Portsmouth, Fort Royal, Martinique, W. I.....	30.03	762.7	76	24.4	90	nne.	.....	.....	2	.....	2	.....	.....	e.	.....	sm'h	.....	fair.
U. S. S. Powhatan, N. 21° 26′, W. 69° 57′.....	30.13	765.3	74	23.3	95	ese.	.....	.....	3	.....	8	.....	.....	.....	.....	sm'h	se.	cloudy.
U. S. S. Quinnebaug, Gibraltar, Mediterranean	30.38	771.6	58	14.4	81	e.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. Saratoga, N. 35° 40′, W. 53° 59′.....	30.01	762.2	63	17.2	?	sw.	.....	.....	6–7	.....	10	.....	.....	w.	light	light	mod.	sw.	overcast.
U. S. S. St. Louis, League Island, Pa.....	30.42	772.7	19	— 7.2	100	nw.	19.4	8.7	.....	.....	2	.....	.....	nnw.	o	o	.....	.....	fair.
U. S. S. Swatara, N. 35° 42′, W. 74° 02′ *†.....	30.28	769.1	42	5.6	91	w.	.....	.....	3	.....	8	.....	.....	n.	.....	.....	n.	fair.
U. S. S. Tennessee, Aspinwall, Panama*.....	29.95	760.7	82	27.8	87	nnw.	12	5.4	.....	.....	10	.....	.....	.....	.....	0.02	0.5	.....	cloudy.
U. S. S. Vandalia, Aspinwall, Panama*	29.94	760.5	79	26.1	80	n.	.....	.....	3	.....	8	.....	.....	n.	.....	.....	.....	.....	fair.
U. S. S. Yantic, Pensacola, Fla†.....	30.57	776.5	46	7.8	100	n	.....	.....	2	.....	2	.....	.....	.....	.....	sm'h	.....	clear.
S. S. British Crown, N. 46° 44′, W. 40° 01′†.....	29.94	760.5	53	11.7	.....	ese.	.....	.....	4	.....	10	.....	.....	se.	7 h'r	7 h'r	mod.	s.	hazy.
S. S. British Prince, N. 41° 44′ W. 52° 08′†.....	29.96	761.0	35	1.7	.....	nne.	.....	.....	4	.....	10?	.....	.....	sw.	10 h'r	10 h'r	mod.	sw.	clear ?
S. S. Indiana, N. 49° 07′, W. 24° 39′.....	.....	.....	52	11.1	93	ssw.	.....	.....	5	.....	10	.....	.....	sw.	light	light	mod.	sw.	showery.
S. S. Lord Clive, N. 39° 36′, W. 69° 45′	.....	.....	.....	.....	.....	wnw.	.....	.....	5	.....	8	.....	.....	wnw.	snow	snow	mod.	w.	squally.
S. S. Pennsylvania, N. 38° 40′, W. 74° 21†.....	30.18	766.6	23	— 5.0	100	nnw.	.....	.....	3	.....	8	.....	.....	nw.	.....	.....	sm'h	nw.	fine.
S. S. Circassian, N. 43° 00′, W. 49° 00′ *.....	29.87	758.7	34	1.1	100	nnw.	.....	.....	3	.....	10	.....	.....	n.	10 h'r	10 h'r	3	con.	raining.
S. S. Manitoban, N. 44° 26′, W. 52° 07′	29.91	759.7	46	7.8	.....	w.	.....	.....	2	.....	3	.....	.....	w	6 h'r	6 h'r	mod.	wnw.	fair.
S. S. Jason, N. 41° 04′, W. 63° 23	.....	.....	39.2	4.0	.....	w.	.....	.....	5	.....	7 k	.....	.....	.....	.....	.....	5	w.	gloomy.
S. S. Alvo, Gonalves, Hayti, W. I.....	30.12	765.0	73	22.8	.....	n.	.....	.....	3	.....	2 k	.....	.....	calm	o	o	.....	.....	fine.
S. S. Alene, N. 16° 35′, W. 77° 00′*†.....	30.07	763.8	.....	.....	.....	ene.	.....	.....	4	.....	2	.....	.....	ene.	o	o	mod.	e.	hazy.
S. S. Ailsa, N. 36° 50′, W. 74° 08′.....	30.32	770.1	67	19.4	79	n.	.....	.....	6	.....	10	.....	.....	n.	2 h'r	2 h'r	high	n.	overcast.
S. S. Anchoria, N. 52° 34′ W. 29° 20′ †.....	30.23	767.8	.....	.....	.....	ssw.	.....	.....	2	.....	10	.....	.....	s.	rain	rain	sm'h	.....	drizzling.
S. S. Bolivia, Glasgow, Scotland	30.39	771.9	50	10.0	.....	w.	.....	.....	1	.....	10	.....	.....	.....	6 h'r	6 h'r	.....	.....	overcast.
S. S. Dorian, N. 50° 25′, W. 32° 30′	30.26	768.6	47	8.3	.....	se.	.....	.....	4	.....	10	.....	.....	.....	6 h'r	6 h'r	mod.	ne.	overcast.
S. S. Utopia, N. 41° 51′, W. 9° 46′*	30.42	772.7	58	14.4	81	var.	.....	.....	2	.....	6	.....	.....	nw.	.....	.....	sm'h	nw.	fair.
S. S. Landaff City, N. 47° 49′, W. 29° 10′ †.....	30.38	771.6	42	5.6	.....	sw.	.....	.....	5	.....	10	.....	.....	sw.	.....	.....	mod.	s.	cloudy.
S. S. Bothnia, N. 40° 54′, W. 66° 15′.....	29.96	761.0	36	2.2	90	nw.	.....	.....	5	.....	8	.....	.....	nw.	snow	snow	mod.	nnw.	snow.sho'rs.
S. S. Marathon, Naples, Italy	30.37	771.4	64	17.8	.....	e.	.....	.....	3	.....	1	.....	.....	ene.	o	o	.....	.....	fine.
S. S. Parthia, N. 50° 42′, W. 22° 15′.....	30.62	777.7	51	10.6	100	s.	.....	.....	3	.....	9	.....	calm	sw.	8 h'r	8 h'r	mod.	s;sw.	misty.
S. S. Pavonia, N. 46° 45′, W. 37° 35′	29.96	761.0	55	12.8	93	sse.	.....	.....	4	.....	10	.....	.....	s.	3 h'r	3 h'r	sll't	ne.	raining.
S. S. Canada, N. 41° 05′, W. 64° 47′	30.06	763 4	26.6	— 3	.....	wnw.	.....	.....	5	ck	.....	wnw.	.....	.....	.....	.....	h'vy	wnw.	snowing.
S. S. Pereire, N. 41° 32′, W. 57° 21′†.....	29.85	758.2	48.2	9	.....	wnw.	.....	.....	5	.....	7	.....	.....	wnw.	o	o	hv'y	w.	cloudy.
S. S. Ville de Marseilles, Ponce, Porto Rico, W. I†.....	30.20	767.1	73	22.8	.....	ene.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. Abyssinia, N. 42° 00′, W. 54° 40′.....	29.86	758.4	44	6.7	75	calm	.....	.....	0	.....	5	.....	.....	w.	6 h'r	6 h'r	r'gh	sw.	fine.
S. S. Vandalia, N. 41° 45′ W. 59° 55′.....	.....	.....	41.0	5.0	90	sw.	.....	.....	6	.....	10	.....	.....	sw.	2 h'r	2 h'r	7	sw.	cloudy.
S. S. Wieland, N. 45° 10′ W. 46° 50′	29.94	760 5	.....	.....	.....	nnw.	.....	.....	2	.....	10	.....	.....	nw.	3 h'r	3 h'r	cross	.....	rain-squalls
S. S. Mentmore, N. 50° 10′, W. 34° 58′ *†	30.02	762.5	.....	.....	.....	sw.	.....	.....	7	.....	10	.....	.....	sw.	o	o	high	sw.	gloomy.
S. S. Archimedes, N. 43° 15′, W. 9° 31′.....	30.32	770.1	.....	.....	.....	ne.	.....	.....	3	.....	0	.....	.....	.....	o	o	light	ne.	hazy.
S. S. Colorado, New York, N. Y†.....	30.38	771.6	12	—11.1	.....	nw.	.....	.....	6	.....	2	.....	.....	nw.	snow	snow	.....	.....	clear.
S. S. Rio Grande, N. 31° 00′, W. 79° 20′†.....	30.45	773.4	58	14.4	.....	n.	.....	.....	5	.....	2	.....	.....	n	o	o	high	n.	light cl'ds.
S. S. Chalmette, N. 36° 30′, W. 74° 00′†.....	30.47	773.9	32	0.0	.....	nnw.	.....	.....	6	.....	5	.....	.....	nnw.	o	o	r'gh	nnw.	fair.
S. S. Lone Star, N. 26° 05′, W. 85° 03′ †.....	30.27	768.8	66	18.9	.....	nne.	.....	.....	6	.....	5	.....	.....	ne.	.....	.....	h'vy	nw.	rainy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Alleghany, Chesapeake Bay†	30.58	776.7	26	— 3.3	.....	nnw.	.....	.....	6	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Picqua, Genoa, Italy	.....	.....	65	18.3	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of Merida, N. 22° 26′, W. 87° 52′†	30.07	763.8	75	23.9	.....	ne.	.....	.....	4	.....	10	.....	ne.	0	0	cross	nne.	cloudy.
S. S. City of Washington, N. 34° 20′, W. 75° 40′†	30.25	768.3	45	7.2	.....	n.	.....	.....	5	.....	5	.....	n	0	0	mod.	n.	fine.
S. S. Denmark, N. 42° 33′ W. 59° 00′†	29.74	755.4	32	0.0	.....	wsw.	.....	.....	6	.....	8	.....	wsw.	4 h'r	4 h'r	h'vy	wsw.	squally.
S. S. Erin, N. 50° 32′ W. 1° 34′	30.55	776.0	43	6.1	.....	wsw.	.....	.....	6	.....	5	.....	w.	0	0	chop	w.	fine.
S. S. Greece, N. 47° 46′, W. 29° 38′	.....	.....	52	11.1	.....	s.	.....	.....	6	.....	8	.....	s.	0	0	mod.	ssw.	cloudy.
S. S. Helvetia, N. 40° 30′, W. 73° 30′	.....	.....	19	— 7.2	.....	wnw.	.....	.....	0	.....	5	.....	wnw	0	0	sm'h	.....	fair.
S. S. America, N. 48° 08′, W. 33° 31′*	30.02	762.5	55.0	12.8	93	s.	.....	.....	1	.....	10	.....	s.	0	0	r'gh	s.	covered.
S. S. Donau, N. 41° 46′, W. 56° 46′	30.00	762.0	.....	.....	.....	w.	.....	.....	4–5	.....	10	.....	w.	2 h'r	h 'r	long	w.	light rain.
S. S. Elbe, off Norderney, Fristan I'ds, Hanover, Ger.	30.39	771.9	44	6.7	.....	wnw.	.....	.....	4–5	.....	10	.....	.....	0	0	mod.	w.	hazy.
S. S. Hermann, N. 48° 50′, W. 19° 12′	30.01	777.5	54.5	12.5	88	sw.	.....	.....	1	.....	8	.....	sw.	.....	.....	f	sw.	foggy.
S. S. Neckar, N. 42° 29′, W. 49° 40′	29.95	760.7	33.0	0.6	?	nw.	.....	.....	4	.....	10	.....	.....	0	0	cross	wsw.	hazy.
S. S. Oder, Southampton, Eng.	30.51	774.9	50	10.0	.. ..	wsw.	.....	.....	3	.....	8	.....	sw.	0	0	sm'h	.....	cloudy.
S. S. Wesser, N. 39° 17′, W. 69° 25′	30.17	766.3	.....	.....	.....	wnw.	.....	.....	0	.....	8	.....	nw.	2 h'r	2 h'r	long	wsw.	clearing.
S. S. Muriel, N. 31° 10′, W. 68° 52′*	30.16	766.1	63	17.2	.....	nnw.	.....	.....	4	.....	10	.....	.....	.....	.....	mod.	nw.	cloudy.
S. S. Belgenland, N 50° 00′ W. 16° 00′	.....	.....	51	10.6	100	w.	.....	.....	2	.....	10	.....	.....	0	0	sm'h	.....	
S. S. Nederland, N. 41° 45′ W. 57° 20′	.....	.....	43	6.1	92	wsw.	.....	.....	6	.....	10	.....	nw.	2 h'r	2 h'r	r'gh	sw.	covered.
S. S. Rhynland, Jersey City, N. J.	30.34	770.6	19	— 7.2	?	w.	.....	.....	4	.....	2	.....	w.	0	0	.....	.....	fine.
S. S. Pennland, N. 43° 02′ W. 50° 46′	29.90	759.4	32	0.0	?	wsw.	.....	.....	6	.....	8	.....	wsw.	8 h'r	8 h'r	mod.	w.	overcast.
S. S. Waesland, N. 49° 40′, W. 8° 00′	30.64	778.2	51	10.6	.....	wnw.	.....	.....	3	.....	3	.....	e.	0	0	sm'h	wnw.	fair.
S. S. Zeeland, N. 41° 50′, W. 59° 30′*†	29.75	755.6	37	2.8	.....	wnw.	.....	.....	5	.....	5	.....	w.	16 h'r	16 h'r	h'vy	wnw.	fair.
S. S. Schiedam, N. 44° 23′, W. 46° 49′	29.84	757.9	48.7	9.3	.....	ssw.	.....	.....	4	.....	9	.....	w.	3 h'r	3 h'r	cross	sw.	foggy.
S. S. W. A. Scholten, N. 49° 42′, W. 13° 50′*	30.55	776.0	52.8	11.6	100	sw.	.....	.....	5	.....	10	.....	sw.	1 h'r	1 h'r	sm'h	w.	rainy.
S. S. Caracas, Curacao, Venezuela†	30.03	762.7	78.5	25.8	86.	e.	.....	.....	0	.....	2	.....	e.	½ h'r	½ h'r	mod	e.	fine.
S. S. Claudius, Port Antonio, Jamaica†	30.17	766.3	71.0	21.7	90	calm	.....	.....	0	.....	8	.....	e.	3 h'r	3 h'r	.....	.....	rainy.
S. S. Valencia, N. 31° 48′, W. 71° 00′†	30.29	769.4	66.5	19.2	64	nw.	.....	.....	4	.....	8	.....	ne.	0	0	mod.	cross	cloudy.
S. S. State of Florida, New York, N. Y	30.18	766.6	22	— 5.6	.....	n.	.....	.....	3	.....	2	.....	.....	0	0	.....	.....	clear.
S. S. Lepanto, N. 37° 07′, E. 6° 00′*†	30.50	774.7	58	14.4	.....	e.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Marengo, N. 50° 02′, W. 19° 06′	.....	.....	.....	.....	.....	sse.	.....	.....	3	.....	10	.....	sse.	.....	.....	r'gh	se.	dense fog.
S. S. Romano, off Beachy Head, Eng*†	30.51	774.9	44	6.7	.....	w.	.....	.....	5	.....	10	.....	w.	0	0	mod.	w.	overcast.
S. S. Salerno, N. 49° 56′, W. 25° 57′†	30.55	776.0	54	12.2	.....	s.	.....	.....	5	.....	7	.....	s.	0	0	sm'h	sw.	hazy.
S. S. Brooklyn, N. 45° 38′ W. 41° 58′	.....	.....	51	10.6	.....	se.	.....	.....	3	.....	.....	.....	se.	0	0	short	e.	cloudy.
S. S. Toronto, N. 43° 09′, W. 66° 30′*†	30.06	763.5	28	— 2.2	.....	wnw.	.....	.....	0	.....	8	.....	wnw.	3 h'r	3 h'r	short	wnw	cloudy.
S. S. Lake Huron, N. 49° 20′, W., 28° 00′	.....	.....	50	10.0	.....	ssw.	.....	.....	4	.....	10	.....	wsw.	rain	rain	sm'h	sw.	rain & fog.
S. S. Olbers, N. 2° 30′, W. 28° 14′	.....	.....	84	28.9	.....	ene.	.....	.....	2	.....	8	.....	ese.	4 h'r	4 h'r	.....	.....	
S. S. Catherine Whiting, Providence, R. I†	30.15	765.8	62	16.7	.....	nnw.	.....	.....	0	.....	.....	.....	nw.	0	0	.....	.....	
S. S. Norman, N. 39° 59′, W. 75° 08′*†	30.25	768.3	.....	.....	.....	wnw.	.....	.....	5	.....	.....	.....	.....	3 h'r	3 h'r	.....	.....	clear.
S. S. Baltic, N. 40° 58, W. 38° 48′*.....	29.97	761.2	51	10.6	100	se.	.....	.....	2	.....	10	.....	.....	2 h'r	2 h'r	mod.	e.	raining.
S. S. Celtic, N. 41° 39′, W. 52° 44′†	29.93	760.2	44	6.7	.....	var.	.....	.....	2	.....	10	.....	.....	shr's	sh'rs	h'vy	sw.	overcast.
Auckland, N. 26° 27′, W. 38° 46′	30.00	762.0	64	17.8	68	wnw.	.....	.....	3	.....	6	.....	.....	.....	.....	.....	.....	squally.
Bk. Commewyne, N. 30° 18′, W. 33° 10′*	29.93	760.2	62.8	17.1	92	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. City of Agra, N. 48° 41′, W. 14° 00′	30.66	778.7	51	10.6	93	s.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	misty.
Bk. Coppename, N. 9° 58′, W. 58° 40′	30.04	763.0	78	25.6	70	ne.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Ptolemy, N. 38° 15′, W. 72° 50′	30.31	769.9	29.5	—1.4	95	nnw.	.....	.....	8	.....	8	.....	.....	.....	.....	high	.....	hail & snow
S. S. Parthia, N. 50° 44′, W. 22° 39′	30.45	773.4	51.5	10.8	93	wsw.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	foggy.
S. S. Antonio Lopez, N. 28° 49′ W. 79° 44′	30.35	770.9	62.5	16.9	66	n.	.....	.....	5	.....	10	.....	.....	0	0	r'gh	n.	cloudy.
Schr. Abbie H. Gheen, Camden, N. J.†	30.41	772.4	19	— 7.2	.....	nw.	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	clear
Bg. Abbie Clifford, N. 36° 11′, W. 72° 25′	.....	.....	46	7.8	.....	nw.	.....	.....	0	.....	10	.....	nw.	0	0	mod.	nw.	cloudy.
Bk. Aquidneck, N. 6° 23′, W. 30° 50′	.....	.....	.....	.....	.....	var.	.....	.....	2	.....	.....	.....	e.	0	0	light	ese.	clear.
Bg. Alcira, Maracaybo, Venezuela, S. A.	30.00	762.0	80	26.7	.....	nne.	.....	.....	2	.....	.....	.....	ne.	0	0	.....	.....	clear.
Schr. Annie A. Holton, N. 22° 08′ W. 95° 36′†	30.23	767.8	70	21.1	.....	n.	.....	.....	9	.....	10	.....	n.	22 h'r	22 h'r	h'vy	n.	raining.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.18	766.6	77	25.0	.....	ene.	.....	.....	5	.....	2	.....	e.	1 h'r	1 h'r	.....	.....	clear.
Schr. Annie Thormann, N. 37° 07′, W. 36° 53′*	30.02	762.4	63.7	17.6	90	ese.	.....	.....	7	.....	6k	.....	ese.	18 h'r	18 h'r	cross	var.	misty.
Bk. Aureola, N. 49° 38, W. 8° 07′*†	30.69	779.5	66	18.9	.....	w.	.....	.....	2	.....	6	.....	wnw.	0	0	sm'h	.....	fair.
Bk. Achille F., N. 50° —′, W. 4° —′†	30.61	777.5	50	10.0	93	wnw.	.....	.....	2	.....	6	.....	wnw	0	0	sm'h	.....	
Bg. Annie R. Storer, N. 21° 20′, W. 74° 50′*†	30.14	765.5	.....	.....	.....	ene.	.....	.....	4	.....	2	.....	.....	0	0	sm'h	.....	fine.
Bk. Pilgrim, N. 5° 40′, W. 33° 30′*†	30.00	762.0	.....	.....	.....	ene.	.....	.....	4	.....	3	.....	ene.	0	0	mod.	ene.	clear.
Bk. Clara M. Goodrich, N. 29° 58′, W. 73° 15′	.....	.....	.....	.....	.....	n.	.....	.....	5	.....	2	.....	sw.	0	0	cross	var.	clear.
Bkt. C. S. Bushnell, Alicante, Spain	30.42	772.7	.....	.....	.....	var.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	fine.
S. Cornelius, N. 43° 01′, W. 26° 23′†	30.51	774.9	57.9	14.4	.....	s.	.....	.....	4	.....	10	.....	.....	0	0	long	w.	cloudy.
Sch. C. R. Flint, N. 25° 34′, W. 61° 30′*†	30.15	765.8	71	21.7	.....	se.	.....	.....	1	.....	2	.....	e.	0	0	mod	ene.	fair.
Bk. Commerce, Cadiz, Spain †	30.23	767.8	65	18.3	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	fine.
S. S. Canonbury, N. 17° 00′ W., 47° 10′*†	30.20	767.1	.....	.....	.....	ene.	.....	.....	4	.....	2	.....	ne.	0	0	mod.	ne.	clear.
Bk. Chas. Stewart, N 2° 12′, W. 29° 00′†	30.06	763.5	81	27.2	.....	ne.	.....	.....	4	.....	5	.....	ene.	0	0	mod.	e.	hazy.
Schr. Edith R. Seward, San Domingo, Hayti, W. I†	30.15	765.8	73	22.8	.....	nne.	.....	.....	2	.....	3	.....	nne.	0	0	mod	ese.	clear.
S. E. J. Spicer, N. 38° 05′, W. 03° 50′	29.96	761.0	52	11.1	93	nw.	.....	.....	7	.....	10	.....	nw.	24 h'r	24 h'r	mod.	nw.	light rain.
Bk. E. D. Bigelow, N. 31° 11′, W. 53° 30′ *†	30.08	764.0	.....	.....	.....	W.	.....	.....	4	.....	2	.....	W.	0	0	sm'h	.....	fair.
Schr. F E. McDonald, N. 18° 49′, W. 59° 15′†	30.18	766.6	.....	.....	.....	ene.	.....	.....	5	.....	.....	.....	.....	0	0	long	e.	fine.
S. S. Foscolo, Malta, Mediterranean †	30.36	771.1	.....	.....	.....	ene.	.....	.....	5	.....	2	.....	ene.	0	0	r'gh	ene.	clear.
S. Festina Lente, N. 53° 34′, W. 31° 46′	30.11	764.8	43	6.1	.....	sw.	.....	.....	5	.....	8	.....	sw.	14 h'r	14 h'r	mod.	nw.	clearing.
Bg. Gipsy Queen, Caruenas, Cuba, W. I*†	30.00	762.0	76	24.4	.....	ne.	.....	.....	8	.....	.....	.....	.....	.....	.....	.....	.....	stormy.
Bk. Guchen, N. 40° 39′, W. 14° 45′*†	30.34	770.5	51.8	11	.....	ne.	.....	.....	5	.....	6?	.....	ne.	.....	.....	sm'h	ne.	covered?
Bk. Galeon, N. 50° 36′ W. 7° 55′	.....	.....	51	10.6	.....	w.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	nw.	fine.
S Hedwig, N. 59° 39′, W. 2° 48′..	30.15	765.8	45.5	7.5	84	nw.	.....	.....	6	.....	8	.....	nw.	2 h'r	2 h'r	4	nne.	overcast.
Bk Hattie G. McFarland, Pascagoula, Miss*†	30.61	777.5	45	7.2	.....	nne.	.....	.....	2	.....	2	.....	ne.	0	0	.....	.....	fair.
Bk. Horace Scudder, N. 1° 30′, W. 27° 26′ *†..	30.05	763.3	81	27.2	.....	ene.	.....	.....	2	.....	4	.....	e.	0	0	light	e.	fine.
Schr. Isabel Alberto, N. 24° 29′, W. 79° 39′ †	30.12	765.0	.....	.....	.....	ne.	.....	.....	7	.....	10	.....	ne.	0	0	sharp	nne.	cloudy.
S. S. J. W. Wilson, Tuspan Mexico*†	30.45	773.4	56	13.3	.....	nw.	.....	.....	0	.....	10	.....	.....	24 h'r	24 h'r	.....	.....	raining.
S. J. W. Gildemeister, N. 48° 41′ W. 16° 01′	30.00	777.2	52.7	11.5	87	n.	.....	.....	0–5	1 c	0	se.	.....	0	0	2–3	se.	misty.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe*†	30.16	766.1	.....	.....	.....	ene.	.....	.....	1	.....	3	.....	ene.	1 h'r	1 h'r	.....	.....	
Bg. Lilian, N. 23° 15′, W. 61° 55′†	30.12	765.0	77	25.0	.....	ese.	.....	.....	2	.....	1	.....	.....	0	0	r'gh	var.	clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.09	764 3	.....	.....	.....	e.	.....	.....	1	.....	10	.....	e.	2 h'r	2 h'r	.....	.....	showery.
S. S. Madrid, N. 37° 20′, E. 8° 07′*†	30.50	774.7	60	15.6	87	var.	.....	.....	1	.....	1	.....	ne.	0	0	sm'h	nnw.	fine.
Bk. Mary A. Troop, Sharpness Point, Eng*†	30.40	772.1	.....	.....	.....	nnw.	.....	.....	2	.....	0?	.....	.....	0	0	.....	.....	fair?
Bgt. Myrtle, St. Thomas, W. I	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	0?	.....	.....	0	0	.....	.....	fair.?
S. M. P. Grace, N. 49° 30′, W. 13° 20′ *..	30.51	774.9	50	10.0	.....	ssw.	.....	.....	3	.....	9	.....	ne.	0	0	sm'h	w.	misty.
S. S. Mendoza, N. 12° 19′, W. 39° 40′*†	30.05	763.3	.....	.....	.....	ene.	.....	.....	3	.....	4?	.....	e.	0	0	sm'h	.....	clear.?
Bkt. Norena, N. 34° 40′, W. 74° 20′*†	30.33	770.4	.....	.....	.....	nw.	.....	.....	5	.....	9	.....	nw.	0	0	cross	var.	threatening.
Bk. Orpheus, N. 47° 21′, W. 27° 32′	.....	.....	56	13.3	.....	ssw.	.....	.....	4	.....	9 k	.....	ssw.	.....	.....	mod.	w.	cloudy.
Bk. Ottawa, N. 30° 10′, W. 25° 15′*	30.14	765.5	73	22.8	.....	e.	.....	.....	5–6	.....	3	.....	ese.	0	0	mod.	ese.	fair.
Bk. Reindeer, N. 34° 40′, W. 72° 55′..	.....	.....	.....	.....	.....	nw.	.....	.....	.....	.....	8	.....	nw.	.....	.....	short	nnw.	squally.
S. Rudolph, N. 23° 28′, W. 58° 41′	.....	.....	74.5	23.6	.....	e.	.....	.....	3	.....	4	.....	e.	0	0	mod.	var.	fair.
Bk. Rebus, N. 32° 41′, W. 30° 35′..	.....	.....	65	18.3	.....	sse.	.....	.....	6	.....	8	.....	sse.	0	0	r'gh	s.	misty.
Bk. Sunbeam, N. 22° 34′, W. 45° 22′	30.08	764.0	70	21.1	75	nnw.	.....	.....	6	.....	8	.....	n.	0	0	r'gh	nw.	cloudy.
Bk. Usko, N. 25° 04′, W. 32° 50′ *.	29.89	759.2	75	23.9	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. Vincenzo Accame, N. 49° 22′, W. 19° 46′ *†	30.71	780.1	68.0	2.0	.....	sw.	.....	.....	4	.....	5?	.....	n.	3 h'r	3 h'r	cross	s.	cloudy?
Schr. Viola Reppard, Highland Light, N. J†	30.26	768.6	25	— 3.9	.....	nw.	.....	.....	7	.....	0	.....	.....	0	0	sm'h	sw.	
Schr. Wm. Wiler, St. Thomas W. I†	30.11	764.8	.....	.....	.....	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	
S. Wm. Woodbury, N. 58° 38′, W. 14° 30′*	30.42	772.7	46	7.8	.....	wsw.	.....	.....	4	.....	6	.....	wnw.	.....	.....	long	wsw.	fine.
S. S. Colon, N. 12° 47′, W. 77° 08′ †	29.97	761.2	78	25.6	.....	ne.	.....	.....	4	.....	3	.....	nne.	0	0	mod.	ne.	cloudy.
District No. 2—South Atlantic.																		clear
H. M.S. Starling, S. 4° 00′ E. 10° 48′	29.88	758.9	80.2	26.8	93	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2—South Atlantic.—Continued.																		
U. S. S. Brooklyn, Montevideo, Uruguay *†	29.78	756.4	73	22.8	85	n.	15	6.7			2		calm	0	0			fair.
U. S. S. Galena, Colonia, Uruguay*	29.76	755.9	73	22.8	95	nw.			3		5		nw.			sm'h		fair.
S. S. Grecian, Buenos Ayres, La Plata*	29.77	756.1	74	23.3	69	nnw.			5		0			0	0			hazy.
S. S. Hevelius, — 0° —', W. 30° 00' †	30.13	765.3	81	27.2		sse.			3		4		se.	1 h'r	1 h'r	sm'h		clear.
Caldew, S. 1° 29', W. 21° 31'	30.03	762.7	80	26.7	86	sw.			2		10							overcast.
May Hulse, S. 57° 00', W. 69° 10'	28.96	735.6	38	3.3	80	s.			8		9							snowing.
Bk. Ceres, S. 21° 59', W. 37° 45'*	30.02	762.5	81.3	27.4	78	nnw.			4		5		n.	0	0	sm'h	nnw.	fair.
Bk. Bare, S. 60° 47', W. 28° 29'*†	30.36	771.1	83	28.3		ese.			3		5		ese.	5 h'r	5 h'r	sm'h	e.	fair.
S. Armenia, S. 12° 55' W. 34° 45' *	29.93	760.2	83	28.3	79	ese.			3		1		ese.	0	0	sm'h	ne.	clear.
Bk. Essex, S. 22° 44', E 1° 33' *†	30.02	762.5	80.0	26.7		sse.			2		8		sse.	0	0	mod.	s.	fine.
Bk. E. L. Pettingill, S. 5° 11', W. 30° 00' *†	30.10	764.5	84	28.9		s.			3		1		e.	0	0	mod.	ne.	
S. E. B. Sutton, S 38° 30' W. 56° 00'†	29.71	754.6	66	18.9	84	nw.			6		9		w.	0	0	mod.	nw.	cloudy.
S. Grecian, S. 38° 37', W. 10° 46†	30.23	767.8	69	20.6	80	nw.			3		0			0	0	long	sw.	hazy.
S. Sovereign of the Seas, S. 44° 32', W. 36° 36' *†	29.78	756.4	51	10.6	86	nw.			3		2		w.	1 h'r	1 h'r	mod.	w.	clear.
S. Titan, S. 44° 13', W. 60° 20'*†	29.62	752.3	62	16.7	88	nnw.			4		4		sw.	0	0	long	s.	fine.
Bkt. Wandering Jew, Montevideo, Uruguay †	29.80	756.9	69	20.6		nw.			3		3		nw.	0	0			clear.
District No. 3—North Pacific.																		
S. S. Belgic, N. 41° 43', W. 177° 43' *†	30.22	767.6	47	8.3	77	nne.			3		10		n.	2 h'r	2 h'r	light	ne.	overcast.
S. S. Coptic, N. 37° 19', E. 155° 40'	29.62	752.3	48.5	9.2	?	ne.			6		10		ne.	11 h'r	11 h'r	r'gh	ne.	raining.
S. S. Oceanic, Hong Kong, China*	30.18	766.6	58	14.4	64	se.			3		7		sw.					cloudy.
S. S. Oregon, San Francisco, Cal†	30.19	766.8	53	11.7	93	calm			0		0							clear.
S. S. Mississippi, Port Townsend, W. T †	30.30	769.6	46	7.8	77	sw.			1		5		sw.					fair.
S. S. Willamette, Strait of Fuca †	30.35	770.9	44	6.7	92	calm			0		5		se.	0	0			fair.
S. S. Ancon, N. 33° 43', W. 118° 26'†	30.10	764.5	58	14.4	58	ne.			2		2					sm'h		fair.
S. S. Dakota, Seattle, Wash. Ter *†	30.30	769.6	45	7.2	84	calm			0		10		ne.	0	0	sm'h		cloudy.
S. S. State of California, Portland, Oregon †	30.34	770.6	45	7.2	46	s.			1		5							fair.
S. S. City of Pekin, Yokohama, Japan *	30.10	764.5	39	3.9	73	ene.			4		8		e.					cloudy.
S. S. City of Rio de Janeiro, N. 27° 46', W. 115° 19'			59	15.0	88	nw.			3		9		nw.	0	0	light	nw.	cloudy.
S. S. Colima, Panama, Panama†	29.94	760.5	78	25.6	95	nw.			2		4		n.	0	0			fair.
S. S. San José, N. 14° 55', W. 92° 37' †	29.95	760.7	78	25.6	91	e.			2		5 k		s.	0	0	long	var.	fair.
H. M. S. Curacoa, N. 34° 55', E. 139° 20'			44.5	6.9	76	n.			2–3		6							d. clouds.
H. M. S. Mutine, N. 21° 18', W. 157° 52'	30.03	762.7	70	21.1		calm			0		4							d. clouds.
H. M. S. Swiftsure, N. 14° 40', W. 139° 10'	30.04	763.0	74	23.3	100	ne.			4–5		10		ne.					overcast
U. S. Naval Hospital, Yokohama, Japan*	30.19	766.7	38.5	3.6	63	n.			1		8		w.	0	0			cloudy.
U. S. S. Independence, Mare Island, Cal	30.25	768.3	47	8.3	85	calm			0		2			0	0			clear.
U. S. S. Lackawanna, Honolulu, Sandwich Islands*	30.00	762.0	69	20.6	75	e.			1		8		e.					cloudy.
U. S. S. Monocacy, Hong Kong, China	30.21	767.3	59	15.0	88	e.			3		10		e.			sm'h		cloudy.
U. S. S. Palos, Tientsin China*	30.31	769.9	32	0.0	100	sw.			1		0							clear.
U. S. S. Ranger, Mare Island, Cal	30.18	766.6	47	8.3	85	calm			0		0			0	0			clear.
U. S. S. Richmond, Hong-Kong, China*	30.10	764.5	58	14.4	82	e.			2		10		e.	0	0			cloudy.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	30.01	762.2	71	21.7	85	se.			1		5		s.			sm'h		fair.
S. S. Scotia, N. 29° 03', E. 122° 26'	30.43	772.9	44.4	6.9	68	nne.			3–4		10							overcast.
S. Henry Failing, Wilmington, Cal†	30.05	763.3	70	21.1		se.					5			0	0	sm'h		fine.
Tamega, Macao, China	30.24	768.2	59.9	15.5	68	n.			2		10			0	0			overcast.
District No. 4—South Pacific.																		
S. S. City of New York, S. 1° 54', W. 165° 42' †	29.87	758.7	80	26.7	82	ese.			3		0			0	0	mod	se.	clear.
H. M. S. Comus, Callao, Peru	29.95	760.7	69	20.6	90	ese.			1		4		ese.					d. clouds.
H. M. S Heroine, Magellan strait, Patagonia	29.45	748.0	40	4.4	100	sw.			5		6		wsw.			sm'h		snow & hail
H. M. S. Kingfisher, S. 9° 36', W. 119° 06'	29.97	761.2	78	25.6		se.			4		6					3	ese.	d clouds.
H. M. S. Lark, S. 36° 50', E. 174° 49'	29.94	760.5	68.3	20.2	84	e.			1		8					sm'h		showery.
H. M. S. Liffey S. 29° 56', W. 71° 20'	29.92	760.0	63	17.2		nne.			2							2	nne.	d. clouds.
H. M. S Rocket, S. 43° 32', W. 58° 20'	29.64	752.8	55	12.8	80	calm			0		7					6	sw.	d. clouds.
H. M. S. Sylvia, Havergal Bay, Patagonia	29.42	747.3	38	3.3	86	ssw.			3–4		10							rain & snow
U. S. S. Essex, Callao, Peru	29.92	760.0	67	19.4	89	calm			0		5							fair.
U. S. S. Iroquois, S. 38° 14', W. 91° 08'	30.14	765.5	67	19.4	84	ssw.			2		5		n.			long	sw.	fair.
U. S. S. Onward, Callao, Peru*†	30.02	762.5	67	19.4	89	se.			1		2							clear.
U. S. S. Pensacola, Valparaiso, Chili*	29.88	758.9	56	13.3	94	ne.			3		10			0	0	sm'h		foggy.
British Merchant, S. 51° 32', W. 113° 52'	29.09	738 9	49.5	9.7	89	nne.			6		10							raining.
Bk. Childwall, S. 32° 30', W. 130° 00' *	29.73	755.1	66	18.9		s.			5		2		s.	4 h'r	4 h'r	light	s.	clear.
Bk. Edmund Phiney, S. 51° 45', W. 77° 57' †	29.75	755.6	45	7.2		wsw.			5		8			hail	hail	h'vy	sw.	squally.
Bk. Gronsvaer, Auckland, N. Z †	29.87	758.8	70.6	21.4		s.			3		2		n.	½h'r	½h'r			fair.
Bk. Godeffroy, S. 36° 24', W. 93° 13'*	29.97	761.2	69.8	21.0	91	w.			1–2		6		nw.	0	0	long	sw.	fair.
S. St. Francis, S. 11° 18' W. 128° 26'†	29.91	759.7	78	25.6		e.			4		2		ese.	0	0	mod	se.	fair.
S. S. Australia, Sydney, N S. W*	29.48	748.8	74	23.3	95	ne.			2		8		ne.	2 h'r	2 h'r			cloudy
S. S. City of Sydney, S. 35° 32', E 175° 44'†	29.90	759.4	69	20.6	85	ne.			4		5		ne.	0	0	long	ene.	fair.
H. M. S. Gannet, S. 2° 12', W. 79° 51'	29.90	759.4	76	24.4	91	ne.			1		10							overcast.
Bkt. Warden Law, S. 48° 20', W. 85° 03'*	30.10	764.5				s.			4		10		n.	1 h'r	1 h'r	cross		covered.
S. Geo. Stetson, S. 47° —', W. 79° —' *†	30.05	763 3	54	12.2	74	sw.			6		1		sw.	0	0		sw.	clear.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 9° 10', E. 44° 20'	29.90	759.4	85	29.4		ese.			1–2		8	sse.				1	ese.	d. clouds.
H. M. S. Eclipse, N. 30° 34' E. 47° 49'	29.85	758.2	63	17.2		nw.			1		3	nnw.						d. clouds.
H. M. S. Euryalus, Calcutta, India	29.95	760.7	75	23.9	93	calm			0									blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.88	758.9	82	27.8		sse.			3		5	sse.				1		d. clouds.
H. M. S. Woodlark, N. 24° 00', E. 63° 00'	29.89	759.2	76.5	24.7	82	w.			4		4	w.				2	w.	d. clouds.
S. S. Galatia, N. 17° 33', E. 86° 40'†	29.91	759.7	80	26.7	93	e.			1		1		ne.	0	0	sm'h		fine.
Bkt. Josephine, East London, Cape Colony†	29.82	757.4	78	25.6	78	ssw.			2		0			0	0	long	sse.	clear.
S. Sacramento, S. 44° 00', E. 84° 30'*†	30.00	762.0	60	15.6	94	nnw.			7		10			24 h'r	24 h'r	mod.	n.	rainy.

International Chart I. February 27, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.

W.B.Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 28, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.39	771.9	62.6	17.0	84	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	**Malaterre.**
Algiers	.....	.....	30.36	771.2	58.3	14.6	76	wnw.	.....	.....	2	.....	4	.....	.....	0	0	cloudy	**Thève.**
La Calle	.....	.....	30.36	771.2	58.3	14.6	40	sw.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	**Fonfréde.**
Tunis	.....	.....	30.34	770.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.37	771.3	65.5	18.6	79	sw.	.....	.....	2	.....	0	.....	.....	0	0	clear	**Pérès.**
Tebessa	.....	.....	30.40	772.1	58.6	14.8	52	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dognon.
Geriville	.....	.....	.....	.....	61.2	16.2	10	nnw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Forfert.
Laghouat	.....	.....	30.39	772.0	57.2	14.0	41	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.36	771.2	68.4	20.2	42	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.74	755.4	29.84	757.9	52.2	11.2	68	w.	10	4.5	.....	.....	5	.....	.....	0.67	17.0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.48	748.7	30.03	762.8	51.4	10.8	51	ne.	.....	.....	2	.....	3	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.07	738.3	29.85	758.3	37.0	2.8	72	w.	13.0	5.8	.....	.....	10	.....	.....	0.232	5.9	.....	Dr. Wierzbiski.
Eperies	28.93	734.8	29.83	757.7	39.2	4.0	70	nw.	.....	.....	3	0	7 ks	... ...	se.	0.087	2.2	.....	Julius Mikolik.
Gratz	28.76	730.4	30.01	762.2	54.0	12.2	46	sw.	.....	.....	5	.....	3	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.49	723.7	29.95	760 8	31.5	— 0.3	100	s.	.....	.....	2	.....	10	.....	.....	0.205	5.2	snowing	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.84	732.6	30.24	768.1	37.2	2.9	90	w.	.....	.....	5	.....	10	.....	.....	0.173	4.4	gloomy	The Staff.
Lemberg	28.66	727.9	29.67	753.7	34.9	1.6	87	nw.	.....	.....	4	.....	10	.....	.....	0.134	3.4	.....	Dr. T. Stanecki.
Neu Schmecks	26.39	670.3	29.88	759.0	29.8	— 1.2	84	ne.	.....	.....	6	.....	10	.....	.....	0.134	3.4	.....	Dr. V. von Szontagh.
Pola	30.03	762.7	30.14	765.6	49.5	9.7	69	sse.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.36	745.7	29.82	757.4	32.0	0.0	89	s.	.....	.....	1	.....	10	.....	.....	0.146	3.7	.....	Joseph Midlinszky, S. J.
Szegedin	29.61	752.1	29.90	759.4	44.6	7.0	77	w.	.....	.....	4	.....	6	.....	.....	0.197	5.0	.....	Karl Stancel.
Trieste	30.03	762.7	30.13	765.2	47.1	8.4	62	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	Royal Academy.
Vienna	29.33	745.0	30.07	763.7	41.7	5.4	77	w.	.....	.....	5	.....	9	.....	.....	0.287	7.3	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.26	768.6	30.36	771.1	45.2	7.3	63	s.	12	5.4	.....	.....	6	.....	.....	0.080	2.0	d. clouds	W. Boswell
Armagh, Observatory	30.33	770.4	30.58	770.7	47.1	8.4	91	sw.	9	4.0	.....	.....	10	.....	.....	.....	.....	overcast	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.55	776.0	45.1	7.3	76	w.	20	8.9	.....	.....	8	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.97	761.2	30.52	775.2	44.6	7.0	80	nnw.	6	2.7	.....	.....	5	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	30.08	764.0	30.47	773.9	46.7	8.2	76	sw.	.....	.....	1	.....	6	.....	.....	0.04	1.0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	30.03	762.7	30.06	763.5	80.0	26.7	66	ne.	.....	.....	3	.....	2	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C
Cardington	30.40	772.1	30.55	776.0	53.0	11.7	70	nw.	.....	.....	0.4	.....	5	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E.	30.38	771.6	30.52	775.2	47.3	8.5	96	calm	.....	.....	0	.....	10	.....	.....	blank	blank	gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	30.36	771 1	30.60	777.2	53.0	11.7	86	nw.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.37	695.2	29.61	752.1	95.6	35.0	34	w.	.....	.....	3	.....	4	.....	.....	.....	.....	blue sky	Corpl. F. Milner, A. H. C.
Freetown	29.65	753.1	29.88	758.9	80.0	30.0	88	e.	.....	.....	1	.....	4	.....	.....	.....	.....	.....	Sgt. J. Robinson.
Galway	30.54	775.7	30.57	776.5	50	10.0	93	w.	.....	.....	2	.....	10	.....	.....	0.03	0.8	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.21	767.3	30.26	768.6	62.8	17.1	89	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Sgt. F. Norris, A. H. C.
Glasgow, Observatory	30.25	768.3	30.46	773.7	45.8	7.7	73	wsw.	.....	.....	4	.....	10 k	.....	.....	blank	blank	overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.35	770.9	30.52	775.2	49.6	9.8	82	nnw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	30.27	768 8	30.58	776.7	49.5	9.7	98	wnw.	.....	.....	1	.....	10	.....	.....	.....	.....	rain & fog	A. Coltenette, F. M. S
Kew, Observatory	30.49	774.4	30.53	775.4	50.8	10.4	73	wnw.	5	2.2	.....	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	30.24	768.1	30.51	774.9	48.8	9.3	66	nw.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	30.17	766.3	30.24	768.1	58.0	14.4	53	w.	.....	.....	2	.....	0	.....	.....	0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.29	769.4	30.33	770.4	70.0	21.1	57	ne.	.....	.....	4	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.99	761.7	30.53	775.4	45.6	7.6	75	nnw.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	30.30	769.6	30.52	775.2	52.0	11.1	77	nw.	.....	.....	1	.....	7	.....	.....	.....	.....	threatening	The Staff.
Plymouth	30.49	774.4	30.56	776.2	55.0	12.8	88	calm	.....	.....	0	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	30.12	765.0	30.22	767.6	42.3	5.7	97	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	raining	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.94	760.5	30.01	762.2	40.8	4.9	50	ne.	.....	.....	2	.....	5	.....	.....	blank	blank	d. clouds	W. H. Lyne.
Sheffield	30.21	767.3	30.49	774.4	50.9	10.5	82	wnw.	.....	.....	1	.....	3	.....	.....	0.15	3.8	d. clouds	W. F. Cooper.
Silloth Rectory	30.48	774.2	30.51	774.9	45.0	7.2	78	w.	.....	.....	2	.....	2	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.52	775.2	44.1	6.7	81	w.	19	8.5	.....	.....	6	.....	.....	.....	.....	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	30.32	770.1	30.54	775.7	49.9	9.9	93	w.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	30.57	776.5	30.62	777.7	53	11.7	93	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	30.63	778.0	30.66	778.7	50.6	10.3	93	w.	7	3.1	.....	.....	10	.....	.....	blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.88	758.9	30.27	768.8	54.7	12.6	62	nw.	9.3	4.2	.....	0	3 n	.....	nw.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	7	—13.9	.....	calm	0	0	.....	1 cs	0	.....	.....	0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.04	763.0	30.08	764.0	3	—16.1	86	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.00	763.5	30.13	765.3	— 6	—21.1	100	sw.	3	1.3	.....	.....	hz.	.....	.....	0	0	hazy	G. A. Blair.
Cornwall, Ontario	29.78	756 4	30.00	762.0	6.9	—13.9	100	n.	.....	.....	1	.....	8 s	.....	.....	0.070	1.8	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.05	763.3	30.11	764.8	— 8.0	—22.2	.....	w.	.....	.....	1	.....	10 s	.....	.....	0	0	overcast	H. A. Johnson.
Father Point, Quebec*	30.05	763.3	30.07	763.8	— 3	—19.4	87	s.	5	2.2	.....	.....	10 n	.....	calm	.....	.....	light snow	J. McWilliams.
Fort Garry, Manitoba*	29.24	742.7	30.14	765.5	12	—11.1	100	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton, N. B	30.08	764.0	30.16	766.1	— 8.0	—22.2	100	calm	0	0	.....	.....	10 s	.....	.....	0	0	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	29.07	738.4	30.26	768.6	20.3	— 6.5	96	n.	5	2.2	.....	4 cs	0	w.	.....	0.300	7.6	d. clouds	Jas. Grant.
Halifax, N. S*	30.02	762.5	30.16	766.1	2	—16.7	100	w.	2	0.9	.....	1 cs	0	.....	.....	0	0	clear	A. Allison.
Hamilton, Ontario	29.80	756.9	30.21	767.3	21.2	— 6.0	82	nw.	.....	.....	1	8 ck	0	n.	.....	0.100	2.5	snowing	Geo. Dickson, B. A.
Kingston, Ontario*	29.75	755.6	30.12	765.0	13	—10.6	87	w.	4	1.8	.....	5 ck	0	nw.	.....	0.27	6.9	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.76	755 9	29.99	761.7	5	—15.0	91	n.	4	1.8	.....	.....	10 n	.....	.....	0.09	2.3	light snow	C. H. McLeod, C. E.
Ottawa, Ontario	29.77	756.1	30.04	763.0	7.1	—13.8	96	calm	.....	.....	0	0	0	.....	.....	0.20	5.1	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.47	748.5	30.24	768.1	5	—15.0	79	w.	8	3.6	.....	0	0	.....	.....	0.17	4.3	clear	Rev. R. Mosley.
Peterboro, Ontario	29.43	747.5	30.25	768.3	12.7	—10.7	80	calm	.....	.....	0	0	0	.....	.....	0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.49	749.0	30.22	767.6	25	— 3.9	100	w.	5	2.2	.....	.....	10 n	.....	.....	0.34	8.6	cloudy	H. Morgan.
Port Stanley, Ontario	29.54	750.3	30.23	767.8	25	— 3.9	92	w.	12	5.4	.....	.....	10 n	.....	w.	0.22	5.6	cloudy	M. Payne.
Quebec, Quebec*	29.70	754.4	30.07	763.8	— 2	—18.9	100	calm	.....	.....	0	.....	fg	.....	.....	0	0	foggy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.03	752.6	30.14	765.5	0	—17.8	87	nw.	2	0.9	.....	^	0	.....	.....	0.05	1.3	clear	W. H. McIntyre.
Saugeen, Ontario*	29.40	748.3	30.23	767.8	18	— 7.8	87	nw.	17	7.6	.....	.....	10 s	.....	.....	0.30	7.6	cloudy	
St. Andrews, N. B	30.03	762.7	30.08	764.0	5	—15.0	100	nne.	1	0.4	.....	hz	10 n	.....	.....	0	0	cloudy	
St. John, N. B	29.94	760.5	30.12	765.0	2	—16.7	72	n.	3	1.3	.....	5 c	0	.....	.....	0	0	blue sky	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.88	758.9	10.4	—12.0	.....	nw.	.....	.....	7	.....	.....	.....	.....	0	0	.....	The Commandant
Stratford, Ontario	28.90	734 0	30.28	769.1	18.0	— 7.8	92	nw.	10	4.5	.....	3 cs	3 s	nw.	.....	0.400	10.2	d. clouds	C. J. Macgregor, M A.
Sydney, C. B*	30.02	762.5	30.09	764.3	6	—14.4	87	sw.	6	2.7	.....	10 k	0	w.	.....	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.83	757.7	30.24	768.1	17	— 8.3	87	nw.	4	1.8	.....	.....	10 ks	.....	nw.	0.15	3.8	cloudy	Magnetic Observatory.
Windsor, N. S	30.01	762.2	30.11	764.8	2.0	—16.7	100	s.	4	1.8	.....	0	9 n	.....	.....	0	0	overcast	Prof. W. H. Butler, M.A.
Woodstock, Ontario	29.11	739.4	30.26	768.6	21.9	— 5.6	80	w.	14.5	6.5	.....	5 k	0	nw.	.....	0.850	21.6	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.01	762.2	30.09	764.3	11	—11.7	66	e.	2	0.9	.....	.....	10 k	.....	w.	inap.	inap.	light snow	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction Upper.	Clouds. Direction Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Cape Colony.																			
Cape St. Francis Lt. House	29.94	760.5	29.97	761.2	72.0	22.2	74	wsw.	14.6	6.5	.....	0	2 8	.....	.....	0	0	clear	John Duthie.
Springbok Fontein	27.86	707.6	.....	.....	82	27.8	75	ese.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. T. Eustace.
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.39	619.5	.....	.....	26.1	— 3.3	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	clear	
Tchang-kia-tchouang	30.10	764.5	30.21	767.3	37.0	2.8	86	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	R. P. Desurmont, S.J.
Zi-Ka-Wei, near Shanghai	30.19	766.9	30.22	767.5	38.8	3.8	100	ene.	11.2	5.0	.....	.....	10 n	.....	.....	0.787	20.0	raining	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.87	758.8	29.92	760.0	41.7	5.4	56	nnw.	13	6	.....	.....	0	.....	.....	.....	.....	.....	Oversergent Fischer.
Fance	30.11	764.8	30.13	765.3	42.1	5.6	65	nw.	.....	.....	6	.....	1	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.20	741.7	29.24	742.8	6.4	—14.2	.....	w.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	S. Kleinschmidt.
Ivigtut, Greenland	29.35	745.4	29.37	745.9	17.2	— 8.2	.....	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	
Jacobshavn, Greenland	28.80	731.4	28.84	732.6	27.7	— 2.4	.....	se.	.....	.....	4	.....	6	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	29.79	756.6	29.83	757.7	38.8	3.8	85	s.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	A. O. Thorlacius.
Thorshavn	30.04	763.1	30.08	764.0	42.4	5.8	96	se.	9	4	.....	.....	10	.....	.....	.....	.....	raining	Overloerer Bergh.
Vestervig	29.95	760.8	30.04	763.1	39.7	4.3	68	nw.	.....	.....	8	.....	0	.....	.....	.....	.....	.....	Loerer Oesterbol.
Upernavik, Greenland	28.70	729.0	28.75	730.2	— 6.2	—21.2	.....	e.	.....	.....	2	.....	10	.....	.....	.....	.....	snowing	
French.																			
Agen, Normal School	29.95	760.6	30.62	777.7	47.8	8.8	84	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	M. Labroue, Director.
Alençon, Normal School	29.95	760.6	30.50	774.6	45.7	7.6	97	nw.	.....	.....	1	.....	n	se.	se.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	30.18	766.6	30.44	773.2	47.8	8.8	89	ne.	.....	.....	2	.....	n	.....	.....	inap.	inap.	.....	M. Fénéon, Command't.
Avignon, Normal School	30.19	766.7	30.26	768.7	53.2	11.8	54	nnw.	.....	.....	6	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.94	760.5	30.52	775.2	44.2	6.8	91	sw.	.....	.....	1	.....	10	.....	sw.	.....	.....	light rain	M. Saillard, Director.
Beauvais, Normal School	30.26	768.7	30.54	775.7	50.5	10.3	80	nnw.	.....	.....	1	.....	10	.....	nnw.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.51	749.6	30.43	773.0	47.8	8.8	86	ne.	.....	.....	1	.....	2	.....	sw.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	30.28	769.0	30.55	776.0	39.4	4.1	93	nw.	.....	.....	1	.....	10	.....	.....	0.004	0.1	covered	M. Rayet, Director.
Bourges, Normal School	29.99	761.8	30.56	776.3	45.5	7.5	85	ssw.	.....	.....	1	.....	8	.....	.....	0	0	very cloudy	M. Malet, Director.
Brest, Naval Observatory	30.37	771.5	30.62	777.7	51.4	10.8	95	nw.	.....	.....	1	.....	10	.....	nw.	0	0	.....	M. de Kermarec, Dir.
Caen, Normal School	30.45	773 4	30.53	775.4	49.6	9.8	77	e.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.10	764.5	30.43	772.9	46.9	8.3	93	sw.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.93	760 3	30.45	773.5	47.1	8.4	76	n.	.....	.....	1	.....	10	.....	.....	0.012	0.3	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.12	739.6	30.54	775.7	39.6	4.2	74	n.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Alluard, Director.
Cluny, Normal School	29.63	752.5	30.51	775.0	43.9	6.6	81	nw.	.....	.....	2	.....	9	.....	n.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.60	751.9	30.49	774.5	45.1	7.3	77	w.	.....	.....	1	.....	10 n	w.	w.	0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.66	702.6	30.22	767.6	51.8	11	34	calm	.....	.....	0	.....	.....	.....	n.	0	0	.....	M. Jeangirard, Director.
Grenoble, Normal School	29.61	752.1	30.41	772.3	45.3	7.4	75	nw.	.....	.....	3	.....	.....	.....	w.	0	0	.....	M. Ahlard, Director.
Guéret	28.89	733.9	30.55	775.9	38.1	3.4	87	ne.	.....	.....	1	0	5 km	.....	ne.	0.079	2.0	cloudy	M. Delorme, Dir.
Lamballe, Normal School	30.33	770.3	30.61	777.4	50.0	10	92	nw.	.....	.....	2	.....	10	.....	nw.	0	0	covered	M. Ollitrault, Director.
Lescar, Normal School	29.93	760 1	30.50	774.8	48.9	9 4	92	nnw.	.....	.....	1	0	5 k	.....	.....	0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.52	775.2	30.62	777.8	51.4	10.8	77	s.	.....	.....	1	.....	10	.....	.....	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.41	746.9	30.51	774.9	39.2	4.0	78	nnw.	.....	.....	3	.....	n	.....	.....	0	0	foggy	M. André, Director.
Mans, Normal School	30.28	769.2	30.60	777.3	50.4	10.2	78	nw.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Piboën, Director.
Marseille, Observatory	29.90	759.5	30.17	766.4	61.9	16.6	60	wnw.	.....	.....	2.3	.....	7	.....	nw.	0	0	.....	M. Stephan, Director.
Montlouis	25.10	637.6	29.95	760.6	49.1	9.5	28	nw.	16.8	7.5	.....	.....	0	.....	.....	0	0	.....	M. Caré for Dr. Fines.
Montpellier, Normal School	30.15	765.7	30.28	769.1	67.3	19.6	42	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.62	752.4	30.43	773.0	43.5	6.4	85	wsw.	.....	.....	2	.....	km	.....	.....	0.035	0.9	.....	M. Hasse, Director.
Nantes, Observatory	30.47	774.0	30.65	778.4	50.2	10.1	70	nne.	.....	.....	0–1	.....	10 n	.....	nne.	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	30.23	767 8	30.34	770.7	66.2	19.0	23	n.	31.8	14.2	.....	.....	0	.....	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.50	546.0	.....	.....	31.1	— 0.5	.....	ene.	.....	.....	1	.....	1	.....	ene.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.33	744.9	30.43	772.8	47.8	8.8	65	n.	.....	.....	1	.....	5	n.	n.	0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25 46	646.6	.....	.....	37.6	3.1	80	nne.	.....	.....	3	.....	0	.....	.....	0	0	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.52	775.3	30.56	776.1	47.1	8.4	81	ne.	.....	.....	1	.....	10	.....	ne.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.32	770.1	30.54	775.8	45.0	7.2	91	n.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Brotier, Director.
Rodez, Normal School	28.27	718.1	30.47	774.0	51.4	10.8	72	s.	.....	.....	1	.....	s	.....	.....	0	0	.....	M. Seger, Director.
Rouen, Normal School	30.57	776.5	30.62	777.7	50.4	10.2	89	w.	.....	.....	1	.....	10	w.	.....	0	0	foggy	M. Mouillot.
Saint Lô	.....	.....	.....	.....	48.6	9.2	97	calm	.....	.....	0	.....	10	.....	.....	0	0	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	30.36	771.2	30.53	775.4	47.5	8.6	92	w.	.....	.....	1	.....	10	.....	.....	0.102	2.6	.....	M. Renou, Director.
Toulouse, Observatory	29.79	756.7	30.52	775.3	48.2	9.0	78	wnw.	.....	.....	1	.....	5	nw.	.....	0	0	cloudy	M. Baillaud, Director.
Tours	30.39	771.9	30.57	776.4	50.0	10.0	74	n.	.....	.....	1	.....	5	nw.	n.	0	0	hazy	M. de Tastes.
Versailles, Observatory	30.02	762.5	30.51	775.0	47.5	8.6	92	nw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.40	772.2	30.55	776.0	55.0	12.8	68	sw.	11.9	5.3	.....	0	3 k	.....	w.	0	0	.....	M. Cartier, Director.
German.																			
Ansbach	28.84	732.4	30.34	770.6	40.6	4.8	85	nw.	.....	.....	4	.....	9	nw.	.....	0.035	0.9	.....	Prof. Jnedt.
Bamberg	29.37	746.1	30.22	767.7	43.7	6.5	73	nw.	.....	.....	4	0	4 k	.....	nw.	0.051	1.3	.....	Prof. Dr. Hoh.
Berlin	29.90	759.5	30.05	763.3	40.8	4.9	65	nw.	.....	.....	5	.....	10	.....	.....	0.134	3.4	.....	Meteorological Institute.
Breslau	29.41	747.0	29.94	760.4	39.0	3.9	75	wnw.	.....	.....	6	.....	10	.....	.....	0.067	1.7	.....	Royal University Obs'y.
Carlsruhe	29.96	761.0	30.44	773.2	42.6	5.9	87	sw.	.....	.....	5	.....	10	sw.	.....	0.012	0.3	.....	Albert Senz.
Cassel	29.54	750.2	30.25	768.3	42.8	6.0	79	nw.	.....	.....	4	.....	8	nw.	.....	0.051	1.3	.....	Dr. H. Möhl.
Frankfort-on-the-Main	30.00	762.0	30.38	771.7	48.4	9.1	51	nnw.	.....	.....	2	.....	6	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.97	735.9	30.47	773.8	42.3	5.7	79	w.	.....	.....	4	.....	10	wsw.	.....	0.126	3.2	.....	Wilhelm, Chief Tel.
Hamburg	30.08	763.9	30.17	766.2	41.4	5.2	72	nw.	.....	.....	7	.....	7	.....	.....	0.157	4.0	squally	E. Preller.
Kiel	30.08	764.0	30.10	764.4	42.3	5.7	62	nw.	.....	.....	4	.....	8	.....	.....	0.047	1.2	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.74	755.5	30.18	766.6	41.4	5.2	75	nw.	.....	.....	5	.....	10	wnw.	.....	0.193	4.9	rainy	H. Leppig, Asst.
Magdeburg	29.94	760.5	30.14	765.5	42.8	6.0	81	w.	.....	.....	3	.....	7	w.	.....	0.079	2.0	.....	Dr. Assmann.
Memel	29.60	751.9	29.65	753.1	33.8	1.0	75	w.	.....	.....	4	.....	10 k	.....	.....	.....	.....	snow squall	Issermann.
Munich	28.48	723.3	30.36	771.1	38.3	3.5	85	sw.	.....	.....	6	.....	10	.....	.....	0.035	0.9	.....	Central Station.
Neufahrwasser	29.75	755.6	29.76	756.0	38.5	3.6	63	nw.	.....	.....	3	.....	1	wnw.	.....	0.008	0.2	.....	A. Lothes.
Neustadt, Palatinate	29.80	757.0	30.34	770.6	49.8	9.9	73	w.	.....	.....	3	.....	8	w.	.....	0	0	.....	Dicknether.
Stuttgart	29.43	747.6	30.36	771.1	44.2	6.8	80	w.	.....	.....	1	.....	10	.....	.....	0.024	0.6	foggy	Prof. Dr. Schoder.
Wustrow	30.02	762.6	30.05	763.3	37.8	3.2	89	wnw.	.....	.....	4	0	3 8	.....	.....	0	0	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.74	755.4	30.14	765.6	40.6	4.8	.....	n.	.....	.....	1.0	.....	1	.....	.....	0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.76	755.9	29.81	757.2	78.8	26.0	70	wsw.	25.0	11.2	.....	.....	7	sw.	.....	0	0	d. clouds	
Deesa	29.30	744.2	29.76	756.0	90.6	32.6	24	wsw.	16.0	7.2	.....	.....	3	wsw.	.....	0	0	d. clouds	
Bombay	29.82	757.5	29.86	758.5	79.7	26.5	80	nw.	20.0	8.9	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.97	710.4	29.79	756.6	89.8	32.1	17	wnw.	22.0	9.8	.....	.....	0	.....	.....	0	0	hazy	
Belgaum	27.30	693.4	29.80	757.0	83.1	28.4	41	wsw.	11.0	4.9	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.17	740.9	29.94	760.6	60.6	15.9	71	e.	6.0	2.7	.....	.....	10	.....	.....	0.03	0.8	d. clouds	
Roorkee	28.98	736.0	29.90	759.6	63.8	17.7	65	calm	0	0	.....	.....	10	.....	.....	0.02	0.5	gloomy	
Agra	29.28	743.8	29.86	758.3	74.7	23.7	35	e.	2.0	0.9	.....	.....	10	.....	e.	0	0	d. clouds	
Nagpur	28.77	730.7	29.79	756.7	89.6	32.0	20	calm	2.0	0.9	.....	.....	2	w.	.....	0	0	d. clouds	
Jubbulpore	28.51	724.2	29.80	758.5	82.4	28.0	21	e.	6.0	2.7	.....	.....	4	.....	ne	0	0	d. clouds	
Lucknow	29.50	749.3	29.89	759.1	72.2	22.3	44	nne.	4.0	1.8	.....	.....	9	.....	.....	0	0	d. clouds	
Allahabad	29.56	750.8	29.88	758.8	73.6	23.1	42	calm	0	0	.....	.....	5	.....	.....	0	0	d. clouds	
Patna	29.69	754.0	29.88	758.8	74.9	23.8	35	sw.	2 6	1.2	.....	.....	10	sw.	sw.	0	0	overcast	
Hazaribagh	27.86	707.7	29.90	759.6	71.1	21.7	27	wnw.	3.6	1.6	.....	.....	7	.....	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Cuttack	29.77	756.2	29.85	758.3	85.0	29.4	57	ne.	2.0	0.9	.....	.....	4	.....	e.	0	0	d. clouds	
Calcutta, Alipore	29.88	758.9	29.90	759 4	77.8	25.4	59	ese.	2.0	0.9	.....	.....	3	.....	.....	0	0	d. clouds	
Dhubri	29.76	755.9	29.88	759.0	71.4	21.9	53	nw.	4.4	2.0	.....	.....	0	nw.	nw.	0	0	overcast	
Chittagong	29.83	757.6	29.92	760.0	74.6	23.7	75	calm	2.4	1.1	.....	.....	3	.....	.....	0	0	blue sky	
Sibsagar	29.64	752.8	29.99	761.7	64.2	17.9	76	ne.	2.0	0.9	.....	.....	10	sw.	sw.	0.61	15.5	d. clouds	
Jeypore	28.37	720.6	29.83	757.6	74 2	23.4	33	sse.	4.8	2.2	.....	.....	10	.....	sse.	0	0	overcast	
Bellary	28.32	719.3	.....	.....	96.2	35.7	18	w.	6	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Trichinopoly	29.60	751.8	.....	.....	91.6	33.1	37	ese.	1.	0.4	.....	.....	5	.....	.....	0	0	d. clouds	
ITALIAN.																			
Udine	29.71	754.6	30.13	765.3	48.4	9.1	61	sw.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.58	751.3	30.11	764.7	59.0	15.0	48	sw.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	Prof. Schiapparelli.
Padua	30.00	761.9	30.11	764.8	46.8	8.2	71	nne.	3.8	1.7	.....	.....	1	se.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.20	741.7	30.13	765.3	53 6	12.0	63	se.	0.7	0.3	.....	.....	1	se.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	30.00	761.9	30.19	766.9	54.0	12.2	65	n.	1.8	0.8	.....	.....	8	sw.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.20	716.3	30.17	766.3	57.0	13.9	27	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.04	763.1	30.10	764.4	50.4	10.2	72	ne.	5.6	2.5	.....	.....	3	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.91	759.8	30.17	766 4	50.3	13.5	61	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	30.04	762.9	30.12	765.1	55.6	13.1	69	sw.	0.7	0.3	.....	.....	10	w.	.....	0	0	.....	Prof. P. Monte.
Rome	30.00	761.9	30.18	766.5	57.6	14.2	55	nne.	.....	.....	.....	.....	4	.....	.....	0	0	.....	Prof. P. Tachini.
Lecce	29.86	758.5	30.12	765.1	53.2	11.8	53	nnw.	8.1	3.6	.....	.....	6	n.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.29	744.0	30.21	767.3	55.4	13.0	77	nnw.	3.8	1.7	.....	.....	6	w.	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.00	762.1	30.20	767.1	60.4	15.8	71	nw.	.....	.....	4	.....	3	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	30.02	762.5	30.28	769.0	56.8	13.8	53	ne.	4.3	1.9	.....	.....	1	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	30.13	765.3	30.18	766.5	59.9	15.5	49	nw.	5.6	2.5	.....	.....	9	wnw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.63	752.7	30.17	766.3	56.8	13.8	69	sw.	7.4	3.3	.....	.....	8	wnw.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.25	565.1	.....	.....	26.6	— 3.0	66	ne.	.....	.....	2	.....	2	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.27	565 7	.....	.....	31.8	— 0.1	61	e.	.....	.....	6	.....	0	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.26	768.6	30.29	769.4	32.0	0.0	69	nw.	.....	.....	2	.....	9 ck	.....	nw.	0.012	0.3	cloudy	H. Hattori.
Awomori	30.20	767.1	30.24	768.1	27.0	— 2.8	94	w.	12.3	5.5	.....	.....	10ks;s	.....	.....	0.012	0.3	overcast	K. Ogawa.
Hakodate	30.21	767.4	30.22	767.7	25.8	— 3.4	81	w.	13.2	5.9	.....	.....	10	.....	.....	0.667	1.7	overcast	
Hamamatsu	30.22	767.6	30.25	768.3	38.9	3.8	79	nw.	.....	.....	2	0	0	.....	.....	0	0	clear	
Kagoshima	30.25	768.3	30.26	768.6	42.9	6.1	79	nw.	.....	.....	2	0	7 s	.....	.....	0.079	2.0	cloudy	G. Miyanonaza.
Kioto	30.10	764.6	30.29	769.3	31.8	— 0.1	78	nnw.	1.2	0.5	.....	0	0	.....	.....	0	0	clear	M. Tojima.
Kochi	30.23	767.8	30.25	768.3	44 1	6.7	71	nnw.	3.9	1.7	.....	0	8	.....	sw.	0.016	0.4	cloudy	K. Kusunose.
Miasaka	30.22	767.7	30.25	768.4	44.2	6.8	89	calm	.....	.....	0	0	8 s	.....	w.	0.232	5.9	cloudy	K. Masusaki.
Nagasaki, I. M. Obs'y	30.05	763.2	30.26	768.6	42.7	5.9	68	calm	0	0	.....	0	1 ck;s	.....	.....	0.255	6.5	.....	S. Takehayashi.
Niigata	30.27	768.8	30.31	769.9	32.0	0.3	90	ssw.	0.8	0.4	.....	0	2 s	.....	.....	0	0	clear	M. Morita.
Nobiru	30.26	768.7	30.28	769.1	33.1	0.6	70	w.	3.5	1.5	.....	0	2 s	.....	.....	0	0	fair	H. Midzushima.
Numazu	30.21	767.4	30.25	768.3	40.5	4.7	80	ene.	.....	.....	2	.....	10ks;n	.....	.....	.....	.....	.....	R. Kaneda.
Osaka	30.26	768.7	30.28	769.1	34 9	1.6	73	ne.	6.8	3.0	.....	0	0	.....	.....	0	0	clear	H. Omura.
Sakai	30.27	768.8	30.28	769.1	34.4	1.3	81	calm	0	0	.....	0	0	.....	.....	0	0	clear	K. Yamawchi.
Sapporo	.....	.....	.....	.....	12.0	—11.1	85	calm	0	0	.....	.....	2	.....	.....	0	0	clear	
Tokei Obs'y, Yeddo	30.19	766.9	30.27	768.9	39.6	4.2	79	ese.	3.5	1.5	.....	0	3 ck;s	.....	nw.	0	0	fair	The Staff.
Wakayama	30.21	767.3	30.26	766.7	39.0	3.9	70	nne.	3.4	1.5	.....	2 cs	3 s	.....	.....	0	0	fair	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.80	756.9	29.99	761.7	81.6	27.6	66	e.	17.0	7.6	.....	1 cs;c	2 k	.....	ese.	0.02	0.5	fair	Oliver & Figon.
MEXICAN.																			
Altata	.....	.....	.....	.....	60.0	15.6	97	n.	6.0	2.7	.....	.....	.....	.....	.....	.....	.....	.....	H. Diaz Pena.
Guanajuato	23.80	604.5	30.02	762.5	41.9	5.5	79	ene.	4.7	2.2	.....	0	1 c	.....	e.	0	0	clear	Prof. Vicente Fernandez.
Leon	24.49	622.0	30.42	772.7	42.3	5.7	89	nw.	.....	.....	1	3 c	0	.....	.....	0	0	clear	Prof. M. Leal.
Mazutlan	29.84	757.8	30.10	764.5	64.5	18.1	63	ese.	5.3	2.3	.....	0 cs	0	sw.	.....	0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.28	591.2	30.55	775.9	39.7	4.3	87	nw.	0.2	0.1	.....	5 kn	5 n	se.	.....	inap.	inap.	covered	The Staff.
Morelia	24.41	620.0	30.30	769.6	43.7	6.5	68	ne.	.....	.....	3	2 c	2 k	e.	ne.	0	0	½ cloudy	M. Tena, M. D.
Pabellon	24.14	613.2	30.29	769.3	44.6	7.0	77	calm	0	0	.....	0	5 ks	.....	e.	0	0	½ cloudy	
Puebla, Catholic Institute	23.52	597.0	30.46	773.6	43.2	6.2	74	wnw.	6.3	2.8	.....	.....	10	.....	se.	0	0	covered	Prof. P. Spina.
Zacatecas	22.65	575.3	30.53	775.4	34.3	1.3	94	e.	15.4	6.9	.....	.....	10 ns	.....	e.	0	0	covered	I. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.50	774 7	30.50	774.7	48.2	9.0	.....	nw.	.....	.....	3	.....	.....	.....	.....	0.012	0.3	.....	
Groningen	30.28	769.0	30.33	770.4	45.0	7.2	.....	nnw.	.....	.....	5	.....	.....	.....	.....	0.063	1.6	.....	
Helder	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.071	1.8	.....	
Hellevoetsluis	30.48	774.1	30.48	774.1	47.7	8.7	72	nw.	.....	.....	2	.....	.....	.....	.....	0.004	0.1	.....	
Utrecht	30.40	772.1	30.45	773.3	46.6	8.1	71	wnw.	.....	.....	2	.....	8	.....	.....	0	0	very cloudy	H. van der Brnit.
Sub-series.																			
Batavia, Java	29.87	758.7	.....	.....	80.6	27.0	83	n.	0.5	0.2	.....	.....	3	.....	.....	0	0	.....	Dr. I. P. van der Stok.
NORWEGIAN.																			
Bergen	30.06	763.4	30.12	765.0	38.1	3.4	66	nnw.	29	13	.....	.....	10	.....	.....	0	0	.....	
Brono	29.48	748.7	29.52	749.7	34.2	1.2	78	nw.	.....	.....	7	.....	10	.....	.....	0.220	5.6	snowing	
Christiania	29.03	752.5	29.78	756.3	41.5	5.3	28	nnw.	18	8	.....	.....	1	.....	.....	0	0	.....	
Gjæsvær	29.10	739.1	29.12	739.7	31.5	— 0.3	.....	ne.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.38	740.2	29.43	747.4	33.8	1.0	82	nnw.	.....	.....	5	.....	8	.....	.....	0.118	3.0	snowing	
PORTUGUESE.																			
Angra, Azores	30.34	770.5	30.49	774.5	59.0	15.0	80	ese.	16.1	7.2	.....	.....	8	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.37	745.9	30.30	771.1	68.0	20.0	30	se.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.27	768.9	30.30	771.1	64.4	18.0	66	sw.	6.9	3.1	.....	.....	0	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.05	763.3	30.42	772.6	58.5	14.7	58	ne.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.42	772.7	30.49	774.5	60.8	16.0	62	e.	7.4	3.2	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.04	752.9	29.84	758.0	82.4	28.0	91	wnw.	0.7	0.3	.....	.....	8	.....	.....	0.067	1.7	.....	
Serra da Estrella	25.61	650.5	30.36	771.2	51.8	11.0	35	ese.	12.5	5.6	.....	.....	0	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.73	729.7	29.90	759.4	9.5	—12.5	69	ese.	7	3	.....	5 cs	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.30	744.1	29.32	744.6	23.0	— 5.0	81	sse.	13	6	.....	.....	10	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashurada	29.80	757.0	29.71	754.6	58.1	14.5	71	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Asstrakhan	29.81	757.1	29.72	755.0	31.3	— 0.4	66	ne.	7	3	.....	.....	10 s	.....	.....	0	0	.....	Capt. Wisganow.
Baku	29.77	756.1	29.72	754.9	41.0	5.0	89	calm	0	0	.....	0	8 k	.....	.....	0.150	3.8	.....	
Barnaul	29.67	753.7	30.22	767.6	11.1	—11.6	68	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Bielosersk	28.91	734.2	29 39	746.5	23.0	— 5.0	80	sse.	13	6	.....	.....	10 n	.....	.....	0.055	1.4	snowing	
Dorpat	29.14	740.2	29.39	740.5	28.4	— 2.0	84	wsw.	9	4	.....	0	0	.....	.....	0.094	2.4	.....	Observatory.
Ekaterinburg	28.89	733.9	29.91	759.7	20.8	— 6.2	95	sw.	4	2	.....	.....	10	.....	.....	0.138	3.5	snowing	Meteorological Obs'y.
Elissawetgrad	29.34	745.3	29.82	757.3	25.2	— 3.8	75	sw.	10	7	.....	.....	10 s	.....	.....	0	0	.....	
Irkutsk	28.52	724.5	30.30	769.7	13.8	—10.1	69	calm	.....	.....	0	.....	8	.....	.....	0	0	.....	
Kasalinsk	29.26	743.2	29.44	747.7	28.6	— 2.2	85	calm	0	0	.....	.....	10 s	.....	.....	.....	.....	.....	
Kasan	29.55	750.6	29.84	757.8	23.2	— 4.9	70	sse.	7	3	.....	10 ck	0	.....	.....	0.043	1.1	.....	Observatory.
Kem	29.07	738.3	29.12	739.6	25.2	— 3.8	69	s.	4	2	.....	0	0	.....	.....	0	0	.....	
Kertch	29.71	754.6	29.73	755.1	28.0	— 2.2	73	calm	0	0	.....	0	7 n	.....	.....	0	0	.....	Lagorio & Sastyrez.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Kieff	28.87	733.3	29.53	750.0	28.4	— 2.0	90	ssw.	16	7	.....	.....	10 n	.....	.....	0.087	2.2	snowing	Observatory.
Koslov	29.21	742.0	29.77	756.2	24.3	— 4.3	100	ssw.	9	4	.....	.....	10 s	.....	.....	0	0	.....	.....
Libau	29.55	750.6	29.58	751.2	34.9	1.6	73	wnw.	13	6	.....	.....	0	.....	.....	0.075	1.9	.....	E. Quass.
Lugan	29.51	749.5	29.70	754.4	27.9	— 2.3	79	nnw.	4	2	.....	.....	8	.....	.....	inap.	inap.	.....	Meteorological Obs'y.
Moscow	29.08	738.7	29.59	751.5	22.5	— 5.3	77	s.	4	2	.....	.....	10 n	.....	.....	0.039	1.0	.....	Meteorological Obs'y
Nikolaiev	29.83	757.7	29.91	759.6	34.2	1.2	67	sw.	18	8	.....	0	8 n	.....	.....	0	0	light clouds.	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.86	758.4	29.95	760.6	— 5.1	—20.6	66	calm	0	0	.....	.....	0	.....	.....	0.008	0.2	.....	Iwanow.
Pekin, China	30.00	761.9	30.15	765.7	36.5	2.5	67	calm	0	0	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.37	746.1	29.74	755.3	39.6	4.2	90	w.	5.6	2.5	.....	.....	10 k	.....	.....	0	0	.....	.....
Petrozavodsk	29.02	737.2	29.23	742.4	26.6	— 3.0	72	sw.	7	3	.....	0	5 ks	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.02	737.0	29.53	750.0	34.5	1.4	85	nw.	13	6	.....	.....	10 s	.....	.....	0.110	2.8	rain & sleet	.....
Pôti	29.70	754.4	29.72	754.9	45.3	7.4	89	sw.	9	4	.....	.....	10 n	.....	.....	.....	.....	raining	.....
St. Petersburg	29.28	743.7	29.30	744.1	27.1	— 2.7	64	ssw.	9	4	.....	0	0	.....	.....	0.039	1.0	.....	Central Physical Obs'y.
Samarkand	27.33	694.1	29.80	756.8	50.2	10.1	50	s.	22	10	.....	0	0	.....	.....	.....	.....	.....	.....
Semipalatinsk	29.46	748.2	30.18	766.5	4.6	—15.2	72	e.	13	6	.....	.....	0	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.66	753.3	29.89	759.3	34.3	1.3	52	n.	11	5	.....	.....	9 n	.....	.....	0	0	.....	.....
Staroi Bykhov	29.03	737.4	29.50	749.4	30.2	— 1.0	86	se.	7	3	.....	.....	10	.....	.....	0.067	1.7	light snow	.....
Tashkend	28.15	714.9	29.83	757 7	46.2	7.9	63	se.	13	6	.....	0	5 s	.....	.....	0.098	2.5	.....	Terch, A. M.
Tiflis	28.25	717.6	29.68	753.9	45.3	7.4	73	e.	7	3	.....	.....	10	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.11	688.6	29.69	754.0	31.1	— 0.5	69	w.	4	2	.....	7 cs	0	.....	.....	.....	.....	.....	.....
Viatka	29.10	739.2	29.76	750.0	23.4	— 4.8	.....	s.	2	1	.....	.....	10	.....	.....	0	0	.....	.....
Vladivostock	30.13	765.3	30.20	767.0	20.5	— 6.4	68	se.	2	1	.....	.....	0	.....	.....	0	0	.....	.....
Warsaw	29.28	743.7	29.71	754.7	35.8	2.1	71	wnw.	20	9	.....	.....	9	.....	.....	0	0	heavy clouds	Astronomical Obs'y.
Wilna	29.15	740.3	29.58	751.3	32.5	0.3	80	nw.	4	2	.....	.....	4	.....	.....	0	0	light clouds	Berg, Assistant.
Yeniseisk	30.02	762.6	30.34	770.6	10.4	—12.0	73	calm	0	0	.....	.....	0	.....	.....	0	0	.....	M. O. Marks.
Scottish.																			
Monach Lt	.....	.....	30.34	770.6	48	8.9	92	w.	.....	.....	4	.....	10	.....	.....	0.3	8.	foggy	J. Youngclauss.
North Unst	.....	.....	30.21	767.3	.....	.....	.....	n.	.....	.....	4	3	4	se.	.....	.....	.....	.....	Robt, Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.26	768.6	30.37	771.3	64.4	18.0	58	sw.	3.1	1.4	.....	1 c	0	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.52	775.3	30.58	776.8	58.3	14.6	66	se.	1.8	0.8	.....	2	3	ne.	.....	0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.46	697.4	30.47	773.9	53.6	12.0	33	ne.	6.7	3.0	.....	0	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.15	715.1	30.39	771.8	63.3	17.4	45	s.	3.6	1.6	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	30.21	767.4	30.35	771.0	73.4	23.0	59	wsw.	1.1	0.5	.....	0	0	.....	.....	0	0	clear	Olayo Diaz, Director.
Oviedo	29.68	753.9	30.56	776.2	42.4	5.8	89	n.	3.3	1.5	.....	0	0	.....	.....	0	0	clear	Prof. L. G. Fradss.
Santiago, Met. Obs'y	29.48	748.7	30.37	771.4	63.3	17.4	46	ne.	13.6	6.1	.....	.....	0	.....	.....	0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Manilla, Philippine Islands	29.98	761.4	30.04	762.9	79.5	26.4	69	e.	8.8	3.9	.....	3 c	4 ks	.....	.....	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.28	769.1	30.38	771.6	67.8	19.9	33	e.	16.8	7.5	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.06	763.4	30.15	765.7	74.8	23.8	89	se.	4.9	2.2	.....	3 c	4 k	w.	se.	0	0	clear	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	29.14	740.2	29.18	741.2	21.6	— 5.8	95	n.	.....	.....	1	.....	5	.....	.....	0	0	.....	.....
Umea	29.21	742.0	29.26	743.3	34.5	1.4	59	n.	.....	.....	7	.....	1	.....	.....	0	0	.....	.....
Hernosand	29.26	743.1	29.31	744.4	32.4	0.2	96	nw.	.....	.....	6	.....	10	.....	.....	0	0	.....	.....
Stockholm	29.31	744.4	29.48	748.9	39.2	4.0	36	wnw.	.....	.....	6	.....	1	.....	.....	0	0	.....	.....
Wisby	29.52	749.9	29.58	751.4	36.3	2.4	89	nw.	.....	.....	7	.....	0	.....	.....	0	0	.....	.....
Sub-series.																			
Upsala	29.35	745.5	29.44	747.7	37.6	3.1	51	nw.	23.7	10.6	.....	.....	1	n.	.....	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	28.95	735.4	30.40	772.2	46.6	8.1	59	nne.	.....	.....	2	.....	0	.....	.....	0	0	clear	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.05	763.2	35.6	2.0	74	nne.	9	4.0	.....	.....	7	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	30.17	760.3	51.1	10.6	.....	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.76	755.8	52.2	11.2	66	sw.	.....	.....	4	.....	10 n	.....	sw.	1.22	31.0	.....	Prof. C. V. A. van Dyck.
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred L. Kingsbury.
United States.																			
Albany, New York	29.93	760.2	30.02	762.5	27	— 2.8	70	w.	9	4.0	.....	0	4 s	.....	w.	0.04	1.0	fair	J. O. Barnes.
Alpena, Michigan	29.59	751.6	30.30	769.6	12	—11.1	80	nw.	6	2.7	.....	0	0	.....	.....	0.20	5.1	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.26	641.6	30.36	771.1	36	2.2	66	ne.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.28	692.9	30.32	770.1	35	1.7	56	sw.	21	9.4	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.32	744.7	30.54	775.7	35.5	1.9	53	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.09	764.3	30.10	764.5	37	2.8	82	sw.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.34	770.6	30.54	775.7	36.5	2.5	52	s.	3	1.3	.....	0	1s; fg	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.14	765.5	30.19	766.8	35	1.7	69	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	Geo W Felger.
Barnegat, New Jersey	30.08	764.0	30.10	764.5	36.0	2.2	69	w.	17	7.6	.....	.....	10 s	.....	w.	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.50	749.3	29.52	749.8	32.7	0.4	.....	n.	7	3.1	.....	.....	10 n	.....	.....	0.22	5.6	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.62	726.9	30.35	770.9	23	— 5.0	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.37	695.2	30.37	771.4	36	2.2	58	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Billings, Montana	26.99	685.5	.....	.....	25	— 3.9	76	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Bismarck, Dakota	28.31	719.1	30.29	769.4	19	— 7.2	87	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.95	760.7	29.98	761.5	33	0.6	68	nw.	24	10.7	.....	5 ck	3 s	nw.	nw.	inap.	inap.	clearing	J. T. Elker.
Boise City, Idaho	27.50	698.5	30.46	773.7	25	— 3.9	88	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.80	756.9	29.96	761.0	24.0	— 4.4	73	w.	8	3.6	.....	2 c	4 s	.....	.....	0.06	1.5	fair	O. B. Cole.
Brownsville, Texas	30.47	773.9	30.52	775.2	48.0	8.9	91	n.	4	1.8	.....	.....	0	.....	.....	0	0	clear	M. McCarty.
Buffalo, New York	29.43	747.5	30.23	767.8	21.2	— 6.0	85	nw.	8	3.6	.....	.....	10 n	.....	nw.	0.17	4.3	light snow	W. Finn.
Buford, Fort, Dakota	28.13	714.5	30.31	769.9	5	—15.0	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. A. Mellen.
Burlington, Vermont	29.65	753.1	29.96	761.0	18.3	— 7.6	76	s.	7	3.1	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	D. N. Farnell.
Cairo, Illinois	30.04	763.0	30.46	773.7	43.8	6.6	62	sw.	8	3.6	.....	.....	0	.....	.....	0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.24	768.1	30.26	768.6	40	4.4	57	w.	16	7.2	.....	0	0	.....	.....	0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.13	765.3	30.16	766.1	40.0	4.4	48	sw.	26	11.6	.....	.....	10 s	.....	w.	0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.48	748.8	30.18	766.6	50	10.0	71	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.53	775.4	30.55	776.0	44	6.7	51	n.	11	4.9	.....	0	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.49	749.0	30.30	771.1	31.3	— 0.4	73	nw.	9	4.0	.....	0	hz.	.....	.....	0	0	dense haze	L. A. Welsh.
Charleston, S. Carolina	30.45	773.4	30.51	774.9	41	5.0	65	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.52	749.8	30.42	772.7	32.0	0.0	68	sw.	3	1.3	.....	0	fg.	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.67	753.6	30.53	775.4	41.0	5.0	38	sw.	9	4 0	.....	1 cs	0	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.24	615.7	30.49	774.4	26.8	— 2.9	61	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.57	751.1	30.32	770.1	30.9	— 0.6	78	W.	4	1.8	.....	0	0	.....	.....	0	0	clear	John Laurens.
Chincoteague, Virginia	30.18	766.6	30.20	767.1	38	3.3	62	w.	8	3.6	.....	0	5 ks	.....	nw.	0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.66	753.4	30.35	770.9	39	3.9	89	sw.	4	1.8	.....	0	2 s	.....	sw.	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.50	749.3	30.29	769.4	32.3	0.2	83	w.	7	3.1	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. B. Newlin.
Coleman City, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. J. Kenan.
Columbus, Ohio	29.40	746.7	30.30	769.6	35	1.7	69	sw.	7	3.1	.....	.....	10 s	.....	sw.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.55	725.2	30.57	776.5	35.0	1.7	82	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Davenport, Iowa	29.66	753.4	30.36	771.1	33	0.6	78	nw.	3	1.3	.....	0	fg.	.....	.....	0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.51	647.9	30.47	773.9	34	1.1	66	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.52	724.4	30.34	770.6	27	— 2.8	88	e.	2	0.9	.....	5 c	0	nw.	.....	0	0	fair	D. Moore.

STATIONS	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Deadwood, Dakota	25.54	648.7	30.46	773.7	28	— 2.2	80	calm	0	0		0	0			0	0	clear	F. Willson.
Delaware Brenkwater, Del.	30.16	766.1	30.18	766.6	36	2.2	89	sw.	23	10.3		0	5 ks		sw.	0	0	fair	T. S. Townsend.
Denison, Texas	29.74	755.4	30.58	776.7	44.0	6.7	51	sw.	4	1.8		0	0			0	0	clear	J. W. Byram.
Denver, Colorado	24.95	633.7	30.47	773.9	32.5	0.3	69	calm	0	0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.43	747.5	30.40	772.1	28	— 2.2	77	calm	0	0		0	sk.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.54	750.3	30.29	769.4	33.0	0.6	88	w.	4	1.8			10 s		w.	0.03	0.8	cloudy	E. R. Brace.
Dodge City, Kansas	27 68	703.1	30.42	772.7	33	0.6	71	w.	13	5.8		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.60	751.8	30.36	771.1	28.2	— 2.1	70	calm	0	0		0	1s;fg		s.	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.44	747.8	30.25	768.3	34	1.1	71	calm	0	0			10 s			0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.77	756.1	30.61	777.5	42.0	5.6	65	se.	1	0.4		1 c	0	sw.		0	0	clear	F. Belford.
Eagle Rock, Idaho	25.61	650.5	30.51	774.9	— 4	—20.0	72	n.	6	2.7		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.02	762.5	30.09	764.3	10.0	—12.2	68	e.	4	1.8		5 c;hz	4 s	w.		0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.60	701.0	30.50	774.7	36	2.2	58	sw.	8	3.6		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26 57	674.9	30.45	773.4	45.6	7.6	49	e.	8	3.6		0	6 s		e.	0.02	0.5	fair	J. O'Dowd.
Erie, Pennsylvania	29.48	748.8	30.25	768.3	31	— 0.6	78	nw.	9	4.0			10 n		nw.	0.18	4.6	light snow	Peter Wood.
Escanaba, Michigan	29.60	751.8	30.32	770.1	19.0	— 7.2	76	calm	0	0			10 s			0.07	1.8	cloudy	George Heathcote.
Fredericksburg, Texas	28.78	731.0	30.58	776.7	38	3.3	82	nw.	3	1.3		0	0			0	0	clear	Frank Halwegler.
Galveston, Texas	30.54	775.7	30.59	777.0	50	10.0	77	e.	8	3.6		0	0			0	0	clear	E. O'C. MacInerney
Grand Haven, Michigan	29.56	750.8	30.27	768.8	32.0	0.0	83	calm	0	0		0	0			0.02	0.5	clear	J. E. Mueller.
Grant, Fort, Arizona	25.42	645.7	30.28	769.1	42	5.6	76	e.	16	7.2		0	8 s			0	0	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.34	770.6	30.36	771.1	41	5.0	57	w.	26	11.6		hz.	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.93	658.6	30.33	770.4	23	— 5.0	88	calm	0	0		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.50	749.3	30.55	776.0	38	3.3	82	calm	0	0		0	0			0	0	clear	J. P. Sherry.
Huron, Dakota	28.82	732.0	30.34	770.6	20	— 6.7	70	s.	5	2.2		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.50	749.3	30.34	770.6	34.5	1.4	70	w.	3	1.3		0	0			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.54	775.7	30.57	776.5	51.0	10.6	83	ne.	9	4.0		0	0			0	0	clear	I. A. Reed.
Jacksboro, Texas	29.34	745.2	30.58	776.7	40	4.4	65	sw.	4	1.8		0	0			0	0	clear	D. J. Carr.
Jacksonville, Florida	30.52	775.2	30.57	776.5	41	5.0	82	ne.	3	1.3		2 cs	fg.			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.66	702.6	30.34	770.6	18	— 7.8	87	sw.	1	0.4		2 c	0			0	0	clear	W. B. Lamar.
Keokuk, Iowa	29.69	754.1	30.39	771.9	34.0	1.1	72	w.	3	1.3		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.28	769.1	30.30	769.6	66.0	18.9	78	ne.	21	9.4			10 s			0	0	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.30	769.6	30.32	770.1	39.5	4.2	36	w.	23	10.3		0,	hz.			0	0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	29.42	747.3	30.50	774.7	35.5	1.9	49	sw.	10	4.5		hz.	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.50	749.3	30.34	770.6	26	— 3.3	64	s.	8	3.6		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.47	748.5	30.42	772.7	33	0.6	88	calm	0	0		0	fg.			0	0	clear	A. W. Browns.
Lewiston, Idaho	29.51	749.5	30.38	771.6	31.5	— 0.3	83	calm	0	0		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	30.19	766.8	30.52	775.2	42	5.6	65	sw.	5	2.2		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.73	755.1	30.13	765.3	58	14.4	42	ne.	9	4.0		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.74	755.4	30.33	770.4	43	6.1	51	s.	8	3.6		0	sk.			0	0	clear	L. M Dey.
Lynchburg, Virginia	29.50	749.3	30.22	767.6	44	6.7	37	w.	5	2.2		0	0			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.62	752.3	30.32	770.1	9.0	—12.8	64	w.	5	2.2		0	0			0.43	10.9	clear	D. B. Notson.
Macon, Fort, North Carolina	30.38	771.6	30.39	771.9	47.0	8.3	42	sw.	28	12.5		0	0			0	0	clear	William Daly.
Madison, Wisconsin	29.24	742.7	30.33	770.4	27	— 2.8	77	w.	8	3.6		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.79	655.1	30.33	770.4	42	5.6	47	w.	8	3.6		0	0			0	0	clear	F. Burke.
McKavett, Fort, Texas	28.27	718.0	30.05	778.5	40	4.4	67	se.	6	2.7		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.51	749.5	30.29	769.4	22	— 5.6	73	n.	2	0.9			10 s			inap.	inap.	cloudy	J. Gilligan.
Memphis, Tennessee	30.18	766.6	30.53	775.4	45	7.2	66	sw.	9	4.0		0	0			0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.52	749.8	30.32	770.1	29	— 1.7	77	nw.	7	3.1		0	fg.			0	0	clear	W. Line.
Missoula, Fort, Montana	27.00	685.8	30.43	772.9	18	— 7.8	58	ne.	1	0.4		0	0			0	0	clear	I. H. Young.
Mobile, Alabama	30.57	776.5	30.61	777.5	37	2.8	82	n.	4	1.8		1 c	0			0	0	clear	C. A. Read.
Montgomery, Alabama	30.36	771.1	30.60	777.2	32.5	0.3	100	calm	0				fg.			0	0	dense fog	J. B. McLaughlin.
Moorhead, Minnesota	29.15	740.4	30.25	768.3	11	—11.7	80	s.	4	1.8		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.26	743.2	30.32	770.1	41.5	5.3	44	sw.	10	4.5			10 s		sw.	0	0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.24	590.3	29.86	758.4	— 5.0	—20 6	100	nw.	33	14.8			10n;fg		nw.	0.02	0.5	light snow	S. W. Beall.
Nashville, Tennessee	29.85	758.2	30.46	773.7	46.0	7.8	48	w.	8	3.6		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.88	758.9	30.00	762.0	28	— 2.2	54	w.	7	3.1		0	1 s		w.	0.01	0.3	clear	J. H. Sherman.
New London, Connecticut	29.97	761.2	30.02	762.5	28	— 2.2	64	w.	8	3.6		0	0			0.04	1.0	clear	J. G. Lynch.
New Orleans, Louisiana	30.54	775.7	30.60	777.2	48.2	9.0	48	ne.	4	1.8		0	sk.			0	0	clear	L. Dunne.
Newport, Rhode Island	29.92	760.0	29.97	761.2	31.2	— 0.4	70	w.	23	10.3		7 k	1 s	w.		0.17	4.3	cloudy	W. McGillivray.
New York, New York	29.87	758.7	30.06	763.5	32	0.0	78	sw.	13	5.8		4 cs	3 k	sw.	sw.	0	0	fair	J. B. Merrill.
Norfolk, Virginia	30.24	768.1	30.27	768.8	40	4.4	48	w.	12	5.4		0	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.34	694.4	30.44	773.2	26.6	— 3.0	74	w.	4	1.8		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.14	765.5	30.18	766.6	39.0	3.9	89	calm	0	0		1 cs	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.16	740.7	30.42	772.7	32.6	0.3	72	w.	1	0.4		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska	30.09	764.3	30.11	764.8	—10.5	—23.6	100	s.	9	4.0		hz.	9 s			0.01	0.3	cloudy	P. H. Ray.
Oswego, New York	29.75	755.6	30.10	764.5	22.0	— 5.6	80	nw.	22	9.8		0	8 k		nw.	0.06	1.5	cloudy	J. G. Linsley.
Palestine, Texas	30.04	763.0	30.62	777.7	41.5	5.3	70	se.	4	1.8		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.58	776.7	30.61	777.5	38.1	3.4	53	n.	6	2.7		1 cs	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.02	762.5	30.13	765.3	37	2.8	61	sw.	7	3.1			10 s		w	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.92	455.2	30.64	778.2	9	—12.8	73	sw.			4	1 cs	0			0	0	clear	H. Hall.
Ploche, Nevada	24.23	615.4	30.39	771.9	31	— 0.6	71	calm	0	0		10 k	0			0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.40	746.7	30.26	768.6	38.0	3.3	58	w.	12	5.4			10 s		w.	0.01	0.3	cloudy	W. A. Reid.
Poplar River, Montana	27.96	710.2	30.31	769.9				nw.			4	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.56	776.2	30.58	776.7	50.5	10.3	79	ne.	11	4.9		2 c	0			0	0	clear	H. B. Boyer.
Port Huron, Michigan	29.57	751.1	30.30	769.6	26.3	— 3.2	77	n.	11	4.9			10 s		n.	0.15	3.8	cloudy	W. O. Bailey.
Portland, Maine	29.93	760.2	29.98	761.5	15	— 9.4	83	n.	6	2.7			10 n		n.	0.04	1.0	light snow	W. W. Eichelberger.
Portland, Oregon	30.12	765.0	30.19	766.8	42.0	5.0	73	w.	3	1.3		9 c	0	w.		0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					45	7.2	53	sw.	23	10.3		0	hz.			0	0	clear	F. B. Chaffee.
Prescott, Arizona	24.93	633.2	30 29	769.4	36.0	2.2	82	calm	0	0			10 s			0	0	cloudy	Jas Cassidy.
Provincetown, Mass.	29.92	760.0	29.95	760.7	28	— 2.2	100	w	11	4.9			10 s		w.	0.45	11.4	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.41	772.4	30.42	772.7	53	11.7	72	n.	13	5.8			10 n		nw.	inap.	inap.	light rain	W. J. Evans.
Red Bluff, California	29.85	758.2	30.22	767.6	47	8.3	68	nw.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.40	748.3	30.17	766.3	20	— 6.7	70	nw.	23	10.3		5 k	0	nw.		0.31	7.9	fair	E. W. McGann.
Roseburg, Oregon	29.95	753.1	30.22	767.6	39.5	4.2	86	ne.	1	0.4		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	30.11	764.8	30.19	766.8	49.5	9.7	73	e.	3	1.3		0	0			0	0	clear	W. B. Hester.
St. Louis, Missouri	29.78	756.4	30.42	772.7	41.2	5.1	96	w.	9	4.0		0	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.29	769.4	30.32	770.1	— 1	—18.3	100	s.	11	4.9		0	0			0	0	clear	A. P. Leavitt.
St. Paul, Minnesota	29.34	745.2	30.28	769.1	19.0	— 7.2	76	sw.	6	2.7		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.21	741.9	30.18	766.6	10	—12.2	80	s.	1	0.4		0	0			0	0	clear	C. B Dilley.
Salt Lake City, Utah	25.90	657.8	30.46	773.7	30	— 1.1	52	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.86	758.4	30.58	776.7	39.0	3.9	73	e.	3	1.3		0	0			0	0	clear	J. H. Davis.
San Diego, California	29.99	761.7	30.06	763.5	59.0	15.0	42	ne.	5	2.2		6 c	0	w.		0	0	fair	A. C. Dobbins.
Sandusky, Ohio	29.38	751.3	30.30	769.6	34	1.1	78	w.	8	3.6			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.04	763.0	30.07	763.8	34.0	1.1	79	sw.	18	8.0		8 k	0	sw.		0	0	cloudy	B. A. Blundon.
San Francisco, California	30.11	764.8	30.18	766.6	52	11.1	86	calm	0	0		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.46	595.9	30.54	775.7	38	3.3	42	nw.	2	0.9		3 k	7 s	w.	w.	0	0	cloudy	H. U. Jones.
Savannah, Georgia	30.46	773.7	30.55	776.0	47	8.3	42	w.	7	3.1		1 c	hz.			0	0	clear	Geo. M. Chappel.
Shaw, Fort, Montana	26.52	673.6	30.36	771.1	44	6.7	41	w.	1	0.4		10 k	0			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	30.35	770.9	30.60	777.2	40	4.4	73	calm	0	0		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	29.26	743.2	30.57	776.5	37.5	3.1	68	sw.	2	0.9		0	0			0	0	clear	W. M. Mattingly.
Silver City, New Mexico	24.48	621.8	30.33	770.4	37.5	3.1	74	s.	3	1.3		4 c	3 s			0	0	fair	N. D. Lane.
Sitka, Alaska	30.19	766.8	30.26	768.6	34.6	1.4	80	ne.	6	2.7		0	0			0.17	4.3	clear	F. W. Fickett.
Smith, Fort, Arkansas	30.06	763.5	30.56	776.2	37.0	2.8	82	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.42	772.7	30.46	773.7	47	8.3	42	w.	18	8.0		0	0			0	0	clear	O. Parker.

STATIONS.	Barometer: Corrected for instrumental error and for temperature. Inch.	Barometer: Corrected for instrumental error and for temperature. Mill.	Barometer: Reduced to sea-level. Inch.	Barometer: Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Spokane Falls, Wash. Ter.	28.26	717 8	30.39	771.9	24	— 4.4	88	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	John F. Hemenway.
Springfield, Illinois.....	29.68	753.9	30.41	772.4	38	3.3	82	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	T. B. Jennings.
Springfield, Missouri.....	28.99	736.3	30.59	774.7	43.0	6.1	51	sw.	13	5.8	.....	0	0	.....	.....	0	0	clear.....	J. H. Bryce.
Starkville, Miss.....	30.08	764.0	30.58	776.7	37	2.8	61	sw.	11	4.9	.....	0	0	.....	.....	0	0	clear.....	C. Dill.
Stevenson, Fort, Dakota.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Schneider.
Stockton, Fort, Texas	27.37	695.2	30.50	774.7	37	2.8	72	sw.	8	3.6	.....	2 c	0	sw.	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass.....	30.01	762.2	30.07	763.8	19.5	— 6.9	76	nw.	20	8.9	.....	8 k	0	nw.	.....	0.06	1.5	cloudy	G. Liebmann.
Thomas, Camp, Arizona.....	27.55	699.8	30.38	771.6	46	7.8	86	calm	.....	.....	0	0	4 ks	.....	.....	0	0	fair.....	J. T. Fitzgerald.
Toledo, Ohio.....	29.54	750.3	30.28	769.1	35	1.7	69	w.	6	2.7	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	A. Buell.
Tucson, Arizona.....	27.71	703.8	30.19	766.8	55	12.8	53	se.	7	3.1	.....	8 ck	0	w.	.....	0	0	cloudy.....	J. L. Whitesid
Umatilla, Oregon.....	30.00	762.0	30.38	771.6	29	— 1.7	88	calm	0	0	.....	3 c	0	.....	.....	0	0	clear.....	James E. Coldwell.
Verde, Fort, Arizona.....	.....	.....	.....	.....	44	6.7	86	sw.	.....	.....	1	0	4 s	.....	sw.	0	0	fair	O. L. Pease.
Vicksburg, Mississippi	30.34	770.6	30.61	777.5	39.6	4.2	60	se.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	James Keneally.
Visalia, California.....	29.80	756.9	30.18	766 6	46.2	7.9	63	se.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	O. D. Stewart.
Washakie, Fort, Wyoming.	24.71	627.6	30.47	773.9	— 5.9	—21.1	87	w.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	T. M. Ambler.
Washington, D. C.....	30.08	764.0	30.20	767.1	35.2	1.8	79	w.	3	1.3	.....	1 k	0	w.	.. ..	0	0	clear.....	B. M. Purssell.
West Las Animas, Colorado	26.29	667 8	30.42	772.7	21.5	— 5.8	67	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	F. H. Brandenburg
Williamsport, Pa.....	29.50	749.3	30.12	765.0	34	1.1	74	nw.	8	3.6	.....	.....	10 n	.....	nw.	inap.	inap.	light snow..	B. F. Hough.
Wilmington, N. Carolina...	30.38	771.6	30.44	773.2	43	6.1	36	w.	14	6.3	.....	0	0	.....	.....	0	0	clear.....	Samuel A. Haney
Winnemucca, Nevada.....	25.84	656.3	30.36	771.1	32.5	0.3	62	e.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	J. Grover.
Yankton, Dakota.....	28.90	734.0	30.32	770.1	22	— 5.6	73	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	J. H. Atfield.
Yuma, Arizona.....	29.95	760.7	30.10	764.5	56.4	13.6	53	ne.	4	1.8	.....	4 cs	0	sw.	.....	0	0	fair.....	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia.....	22.04	559.8	.....	.....	55.5	13.1	85	nw.	2	0 9	.....	0	6k;s;s	.....	.....	0.12	3.0	fair.....	Joaquin Gomez.
Kingston, Jamaica, W. I....	30.10	764.5	30.11	764.8	69	20.6	88	n.	1	0.4	.....	0	0	.....	.....	0.01	0.3	clear.....	Robert Johnston.
Paramaribo, S. A.....	30.06	763.5	30.06	763.5	78	25.6	82	ne.	.....	.....	3	4 c	5 k	e.	.....	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.40	746 7	29.95	760.7	81	27.2	80	calm	.....	.....	0	10 c	0	calm	.....	0	0	cloudy	Francisco J. Cisneros
Rivas, Nicaragua, C. A....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.03	762.7	30.09	764.3	33	0.6	88	ne.	.....	.....	3	0	8 ks	.....	.....	0.34	8.6	light rain.....	W. J. Fisher.
St. Thomas, W. I.....	30.06	763.5	30.19	766.8	75	23.9	69	ne.	.....	.....	.....	0	3 k	.....	e.	0	0	clear.....	Aug. Walloe.
Havana, Cuba.....	30.18	766.6	30.24	768.1	70.6	21.4	69	ne.	21	9.4	.....	6 k	3 k;n	e.	ne.	inap.	inap.	cloudy.....	Benito Vines, S. J.
York Factory, B. A.....	30.37	771.4	30.44	773.2	—27.0	—32.8	.....	nw.	6	2.7	.....	2 c	0	nw.	.....	0	0	fair.....	Fortesque & Wood.

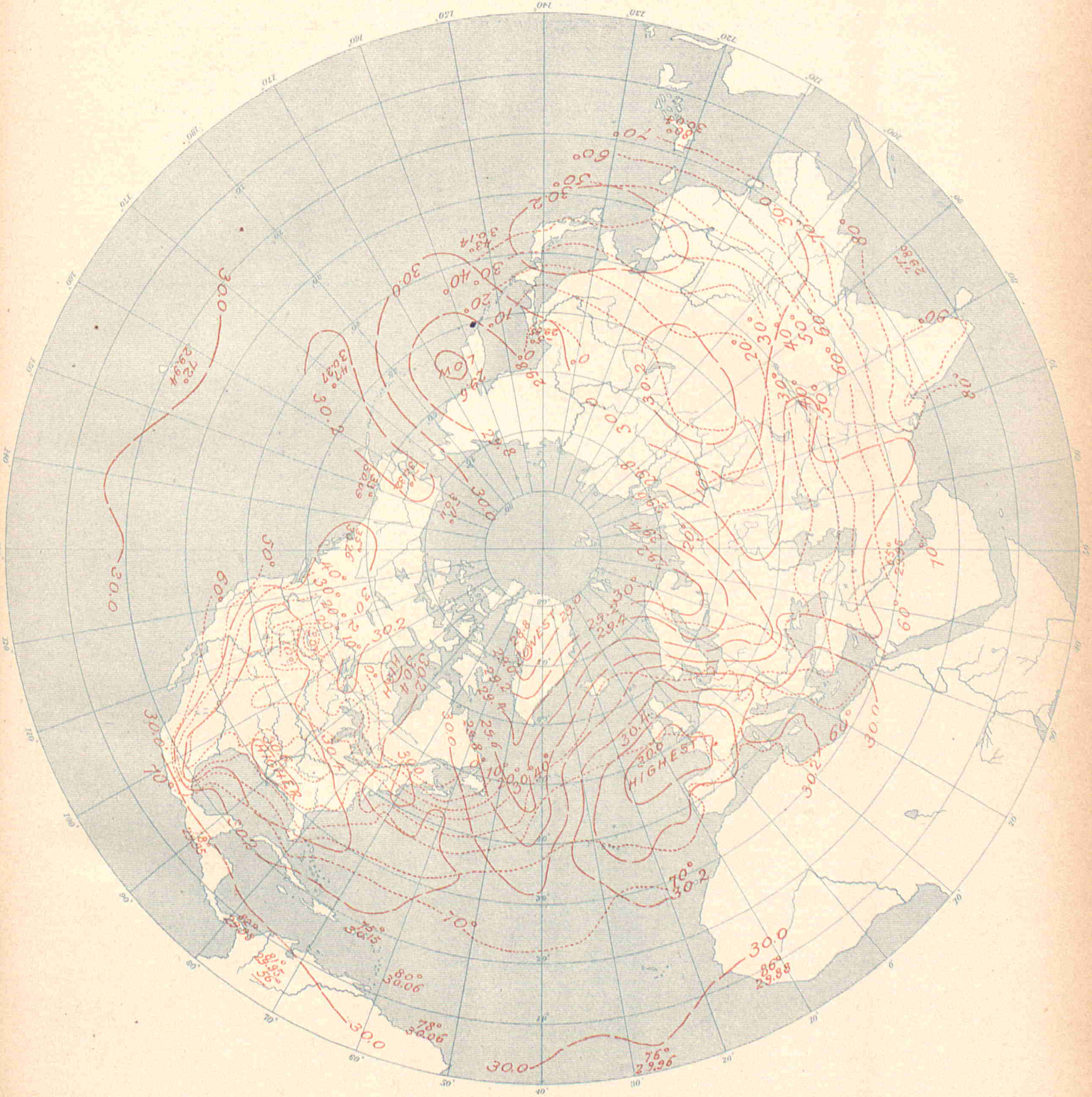
MERCHANT MARINE AND NAVAL REPORTS.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level. Inch.	Barometer reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Sea-swell. Character.	Sea-swell. Direction from	Weather.
District No. 1—North Atlantic																		
H. M. Dock-Yard, Bermuda, W. I.....	30.30	769.6	55	12.8	62	nw.	.....	.....	1-2	.....	7	nw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Fawn, N. 44° 19′, W. 18° 41′.....	30.60	777.2	53	11.7	79	ene.	.....	.....	3	.....	9	ene.	.....	.....	.....	2	ne.	d. clouds.
H. M. S. Monarch Port Said, Egypt	29.96	761.0	48	8.9	85	sw.	.....	.....	2-3	.....	3	.....	.....	.....	.....	.....	.....	showery.
H. M. S. Minotaur, N. 39° 07′, W. 10° 06′	30.37	771.4	58	14.4	81	nne.	.....	.....	1	.....	2	.....	.....	.....	.....	1	wnw.	d. clouds.
H. M. S. Tyne, N. 17° 25′, W. 72° 54′	30.08	764.0	79	26.1	82	ene.	.....	.....	3-4	.....	4	calm	.....	.....	.....	2	ene.	d. clouds.
H. M. Frigate Vanadis, N. 40° 12′, E. 6° 49′...	30.24	768.2	58.8	14.9	73	wnw.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	.....	d. clouds.
U. S. Navy Yard, Portsmouth, N. H.*.....	29.94	760.5	16	— 8.9	?	nw.	3	1.3	.....	.....	5	.....	nw.	0	0	.....	.....	fair.
U. S. S. Alliance, Nipe, Cuba	30.15	765.8	75	23.9	100	ne.	.....	.....	2	.....	8	.....	.....	h'vy	h'vy	sm'h	.....	cloudy.
U. S. S. Juniata, N. 35° 08′, E. 17° 10′ *...	30.23	767.8	53	11.7	86	nnw.	.....	.....	4	.....	8	.....	n.	sli't	sli't	mod.	n.	cloudy
U. S. S. Kearsarge, N. 10° 03′, W. 78° 33′	29.96	761.0	80	26.7	91	nne.	.....	.....	5	.....	2	.....	nne.	.....	.....	mod.	nne.	fair.
U. S. S. Lancaster, Southampton, Eng.....	30.53	775.4	53	11.7	100	calm	.....	.....	0	.....	10	.....	calm	.....	.....	sm'h	.....	misty.
U. S. S. Portsmouth, Fort Royal, Martinique, W. I.....	30.05	763.3	72	22.2	90	ne.	.....	.....	.....	.....	2	.....	e.	.....	.....	sm'h	.....	clear.
U. S. S. Powhatan, N. 19° 58′, W. 70° 40′	30.17	766.3	78	25.6	82	ene.	.....	.....	3	.....	2	.....	.....	.....	.....	sm'h	e.	fair.
U. S. S. Quinnebaug, N. 37° 36′ W. 9° 05′.....	30.42	772.7	63	17.2	67	e.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	se.	clear.
U. S. S. Saratoga, N. 35° 35′, W. 50° 16′	30.00	762.0	59	15.0	100	wnw.	.....	.....	4-6	.....	0?	.....	.....	light	light	mod.	nw.	overcast?
U. S. S. St. Louis, League Island, Pa.....	30.07	763 8	35	1.7	100	sw.	12.7	5.7	.....	.....	8	.....	nw.	0	0	.....	.....	cloudy.
U. S. S. Swatara, N. 34° 06′, W. 71° 18′*†.....	30.36	771.1	57	13.9	?	wnw.	.....	.....	3-5	.....	8	.....	wsw.	.....	.....	.....	nnw	cloudy.
U. S. S. Tennessee, Aspinwall, Panama *.....	29.98	761.5	82	27.8	78	n.	11	4.9	.....	.....	2	.....	.....	0	0	sm'h	.....	fair.
U. S. S. Vandalia, Aspinwall, Panama*.....	29.96	761.0	80	26.7	90	n.	.....	.....	3	.....	5	.....	n.	.....	.....	.....	.....	fair.
U. S. S. Yantic, Pensacola, Fla†.....	30.62	777.7	48	8.9	100	nne.	.....	.....	2	.....	2	.....	.....	.....	.....	sm'h	.....	clear.
S. S. British Crown, N. 44° 41′, W. 45° 51′ †.....	29.52	749.6	36	2.2	.....	n.	.....	.....	6	.....	10	.....	.....	18 h'r	18 h'r	mod.	nne.	heavy rain.
S. S. British Prince, N. 43° 30′, W. 46° 37′ †.....	29.73	755.1	50	10.0	.....	nnw.	.....	.....	6	.....	10	.....	.....	5 h'r	5 h'r	r'gh	nne.	raining.
S. S. Indiana, N. 47° 29′, W. 31° 25′.....	.....	.....	54	12.2	93	s.	.....	.....	5	.....	10	.....	sw.	light	light	mod.	sw.	overcast.
S. S. Lord Clive, N. 38° 50′, W. 74° 30′.....	30.28	769.1	.....	.....	.....	wsw.	.....	.....	3	.....	9	.....	w.	0	0	sm'h	.....	cloudy.
S. S. Pennsylvania, Delaware river †.....	30.24	768.1	26	— 3.3	100	w.	.....	.....	4	.....	4	.....	w.	.....	.....	.....	.....	fine.
S. S. Circassian, N. 44° 00′, W. 42° 00′*.....	29.62	752.3	54	12.2	100	sew.	.....	.....	4	.....	10	.....	sw.	10 h'r	10 h'r	4	sw.	d. clouds.
S. S. Manitoban, N. 43° 38′ W. 48° 06′.....	29.90	759.4	37	2.8	.....	nw.	.....	.....	4	.....	7	.....	nw.	12 h'r	12 h'r	sm'h	.....	cloudy.
S. S. Jason, N. 40° 25′, W. 66° 58′.....	.....	.....	30.7	— 0.7	.....	wnw.	.....	.....	3	c	6 k	.....	.....	.....	.....	.....	.....	cloudy.
S. S. Alvo, Jeremie, Hayti, W. I	30.13	765.3	70	21.1	.....	s.	.....	.....	4	3 ck	0	calm	.....	0	0	long	n.	hazy.
S. S. Alene, N. 13° 25′, W. 75° 51′*†.....	30.04	763.0	.....	.....	.....	ene.	.....	.....	4	.....	0	.....	.....	0	0	long	e.	hazy.
S. S. Ailsa, N. 33° 39′, W. 74° 18′†.....	30.37	771.4	57	13.9	94	w.	.....	.....	5	.....	2	.....	w.	0	0	mod.	w.	fair.
S. S. Anchoria, N. 50° 23′, W. 35° 57′ †.....	30.04	763.0	.....	.....	.....	sse.	.....	.....	3	.....	10	.....	sw.	rain	rain	sli't	sw.	heavy rain.
S. S. Bolivia, Glasgow, Scotland	30.63	778 0	44	6.7	.....	nw.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....	overcast.
S. S. Dorian, N. 52° 32′, W. 27° 50′.....	30.37	771.4	49	9.4	.....	s.	.....	.....	5	.....	10	.....	s.	.....	.....	mod.	sw.	overcast.
S. S. Utopia, Lisbon, Portugal *.....	30.39	771.9	66	18.9	78	w.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Landaff City, N. 49° 50′, W. 24° 30′†.....	30.48	774.2	45	7.2	.....	s.	.....	.....	5	.....	9	.....	s.	.....	.....	sm'h	.....	cloudy.
S. S. Bothnia, N. 40° 28′, W. 72° 00′.....	30.01	762.2	38	3.3	90	nnw.	.....	.....	5	.....	8?	.....	nnw.	4 h'r	4 h'r	mod.	wnw.	clear?
S. S. Marathon, Naples, Italy	30.23	767.8	61	10.1	.....	ssw.	.....	.....	2	.....	4	.....	ssw.	0	0	.....	.....	fine.
S. S. Parthia, N. 49° 35′, W. 29° 27′.....	30.46	773.7	52	11.1	93	s.	.....	.....	5	.....	10	.....	ssw.	20 h'r	20 h'r	mod.	ssw.	misty.
S. S. Pavonia, N. 48° 47′, W. 30° 34′.....	30.30	769.6	54	12.2	93	sse.	.....	.....	5	.....	9	.....	sse.	2 h'r	2 h'r	sli't	s.	cloudy.
S. S. Canada, N. 40° 30′, W. 70° 00′.....	30.14	765.5	24.8	— 4	.....	wnw.	.....	.....	2	ck	.....	wnw.	.....	snow	snow	hv'y	wnw.	snowing.
S. S. Pereire, N. 42° 05′, W. 51° 43 ′†.....	29.89	759.3	33.8	1	.....	n.	.....	.....	3-5	.....	10	.....	nw.	snow	snow	sm'h	.....	covered.
S. S. Ville de Marseilles, Crab Island, W. I †.....	30.25	768.3	72	22.2	.....	ene.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Abyssinia, N. 42° 40′, W. 48° 00′	29.86	758.4	41	5.0	91	nnw.	.....	.....	5	.....	7	.....	nnw.	16 h'r	16 h'r	mod.	var.	cloudy.
S. S. Vandalia, N. 41° 06′, W. 63° 36′	30.25	768.3	33.8	1	89	wsw.	.....	.....	5	.....	10	.....	w.	.....	.....	4	w.	cloudy.
S. S. Wieland, N. 43° 54′, W. 52° 10′.....	29.96	761.0	.....	.....	.....	nne.	.....	.....	3	.....	10	.....	ne.	6 h'r	6 h'r	mod.	ne.	snowy.
S. S. Bulgarian, N. 42° 17′, W. 66° 14′ *.....	30.13	765.3	.....	.....	.....	sw.	.....	.....	1	.....	7	.....	sw.	2 h'r	2 h'r	.....	.....	cloudy.
S. S. Archimedes, N. 45° 47′, W. 8° 10′.....	30.53	775.4	.....	.....	.....	ne.	.....	.....	3	.....	3	.....	ne.	0	0	light	ne.	fair.
S. S. Rio Grande. N 33° 42′, W. 76° 25′ †	30.54	775.7	56	13.3	.....	wsw.	.....	.....	3	.....	0	.....	.....	0	0	mod.	se.	clear.
S. S. Chalmette, Sandy Hook, N. J†.....	30.07	763 8	36	2.2	.....	w.	.....	.....	6	.....	6	.....	w.	0	0	mod.	sw.	cloudy.
S. S. Lone Star, N. 28° 48′ W. 88° 40′†.....	30.48	774.2	* 59	15.0	.....	ne.	.....	.....	3	.....	0	.....	.....	0	0	mod.	ne.	hazy.
S. S. Alleghany, Baltimore, Md †.....	30.28	769.1	34	1.1	.....	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. Picqua, N. 42° 17′, E. 11° 14′	30.31	769.9	62	16.7		calm			0		0			0	0	light	s.	clear.
S. S. City of Merida, N. 23° 07′, W. 85° 56′†	30.18	766.6	79	26.1		ne.			4		10		ne.	4 h'r	4 h'r	cross	ne.	cloudy.
S. S. City of Washington, N. 38° 40′ W. 74° 08′ †	30.09	764.3	44	6.7		wsw.			5		10		sw.	0	0	sm'h		cloudy.
S. S. Denmark, N. 41° 52′, W 62° 40′†	30.45	773.4	24	— 4.4		wsw.			5		8		wsw.	snow	snow	mod.	w.	snowy.
S. S. Erin, Nore Light, Eng	30.45	773.4	43	6.1		nw.			3		0			0	0			hazy.
S. S. Greece, N. 46° 46′, W. 35° 38′	29.98	761.5	52	11.1		sse.			7		10		sse.	0	0	r'gh	s.	dull.
S. S. Helvetia, New York, N. Y	29.91	759.7	31	— 0.6		w.			5		8		w.	0	0			cloudy.
S. S. America, N. 40° 46′, W. 39° 36′*	29.67	753.6	56.0	13.3	100	sse.			6		10		sse.	6 h'r	6 h'r	r'gh	sse.	drizzling.
S. S. Donau, N. 42° 32′, W. 49° 43′	29.91	759.7				nnw.			3		10		nnw.	20 h'r	20 h'r	mod.	w.	light snow.
S. S. Elbe, Bremerhaven, Germany	30.26	768.6	53	11.7		nw.			5–6		8		nw.	0	0			cloudy.
S. S. Hermann, N. 49° 24′, W. 12° 01′	30.71	780.0	50.3	13.5	88	w.			1		8		w.			1	w.	foggy.
S. S. Neckar, N. 42° 02′, W. 55° 45′	30.10	764.5	34.0	1.1	90	nw.			5		6		nw.	5 h'r	5 h'r	cross	nw.	fair
S. S. Oder, N. 49° 50′, W. 8° 19′	30.68	779.3	50	10.0		nnw.			2–3		8		nnw.	0	0	sm'h	nw.	foggy.
S. S. Weser, N. 38° 01′, W. 73° 41′	30.23	767.8				wsw.			6		8		w.	4 h'r	4 h'r	r'gh	w.	clearing.
S. S. Muriel, N. 33° 10′, W. 70° 00′*	30.33	770.4	52	11.1		nw.			5		2					h'vy	nw.	fair.
S. S. Belgenland, N. 49° 47′ W. 23° 40′*†	30.44	773.2	51	10.6	100	ssw.			4		9			0	0	sm'h		
S. S. Nederland, N. 42° 00′ W. 51° 39′			33	0.6	80	nnw.			4		10			4 h'r	4 h'r	mod.	n.	covered.
S. S. Rhyneland, Jersey City, N. J	30.08	764.0	32	0.0	79	wnw.			4		6		w.	0	0			fair.
S. S. Pennland, N. 42° 03′ W. 61° 38′	30.21	767.3	20	— 3.3	88	nw.			6		7		nw.	4 h'r	4 h'r	mod.	w.	cloudy.
S. S. Waesland, N. 50° 30′, W. 0° 15′	30.57	776.5	50	10.0		nw.			3		10		ese.	0	0	sm'h	nw.	hazy.
S. S. Zeeland, N. 41° 12′, W. 62° 45′*†	30.12	765.0	37	2.8		w.			4		10		w.	12 h'r	12 h'r	h'vy	wnw.	cloudy.
S. S. Schiedam, N 43° 23′ W. 51° 08′	29.96	761.0				wnw.			5		5		nw.	snow	snow	mod.	nw.	fair.
S. S. W. A. Scholten, N. 49° 11′, W. 20° 48′*	30.65	778.5	53.2	11.8	93	ssw.			5		2		sw.	0	0	sm'h	sw.	
S. S. Caracas, N. 16° 06′, W. 68° 08′†	30.13	765.3	78.5	25.8	91	ne.			6		8		ne.	½ h'r	½ h'r	r'gh	ene.	squally.
S. S. Claudius, Port Antonio, Jamaica†	30.19	766.8	72.0	22.2	90	calm			0		5		e.	3 h'r	3 h'r			fair.
S. S. Valencia, N. 27° 39′, W. 69° 59′†	30.39	771.9	68	20.0	79	ne.			6		7		ne.	0	0	mod.	ne.	cloudy.
S. S. Lepanto, N 37° 13′, E. 10° 00′*†	30.50	774.7	60	15.6		w.			3		0			0	0	sm'h	w.	clear.
S. S. Marengo, N. 49° 52′, W. 13° 36′†	30.65	778.5				w.			4		2?		w.			sm'h	w.	cloudy
S. S. Romano, off Lizard Head, Eng*	30.60	777.2	51	10.6		nw.			3		3		nw.	0	0	sm'h		fine.
S. S. Salerno, N. 49° 31′, W. 30° 47′†	30.42	772.7	54	12.2		s.			6		8		s	0	0	r'gh	s.	hazy.
S. S. Brooklyn, N. 47° 41′, W. 35° 45′			52	11.1		sse.			7				sse.	4 h'r	4 h'r	high	sse.	cloudy.
S. S. Toronto, N. 43° 33′, W. 70° 12′			16	— 8.9		nw.			6		10			2 h'r	2 h'r	sm'h		dense fog.
S. S. Lake Huron, N. 50° 39′, W. 20° 56′			53	11.7		sw.			3		10		sw.	0	0	sm'h		dull.
S. S. Catherine Whiting, Providence, R. I†	29.97	761.2	48	8.9		nw.			1		0			0	0			
S. S. Norman, N. 39° 40′, W. 73° 13′*†	30.10	764.5				wnw.			5				w.	0	0	r'gh	wnw.	cloudy.
S. S. Baltic, N. 44° 49′, W. 45° 37′*	29.65	753.1	51	10.6	93	n.			6		10			17 h'r	17 h'r		wnw.	raining.
S. S. Celtic, N. 43° 34′, W. 45° 37′†	29.61	752.1	60	15.6		s.			5		10		s.	6 h'r	6 h'r	mod.	s.	rainy.
S. S. Auckland, N. 28° 13′, W. 37° 57′	30.03	762.7	67	19.4	74	ne.			3		6							blue sky.
Bk. Commewyne, N. 29° 15′, W. 33° 57′*	30.06	763.5	66.2	19.0	81	se.			5		10							d clouds.
S S. City of Agra, N. 48° 40′, W. 13° 07′	30.74	780.8	55.5	13.1	90	calm			0		10							misty.
Coppename, N. 12° 20′ W. 59° 05′	30.07	763.8	77	25.0	78	ene.			4		3							blue sky.
S. S. Parthia, N. 49° 40′ W. 28° 56′	30.35	770 9	51.5	10.8	93	sew.			5		10							misty.
S. S. Antonio Lopez, N. 29° 43′, W. 75° 36′	30.45	773.4	58	14.4	76	nne.			2		3			0	0	mod.	nne.	clear.
Schr. Abbie H. Gheen, Camden, N. J†	30.17	766.3	34	1.1		sw.			6									cloudy.
Bg. Abbie Clifford, N. 37° 30′ W. 71° 30′†	30.24	768.1	51	10.6		w.			5		9		w.	0	0	r'gh	w.	cloudy.
Bk. Aquidneck, N. 3° 32′, W. 28° 47′						var.			2				e.	0	0	light	e.	clear.
Bg. Alcira, Maracaybo, Venezuela, S. A	30.01	762.2	81	27.2		nne.			4		4		ne.	0	0			clear.
Schr. Anna A. Holton, N. 21° 21′, W. 95° 23′†	30.21	767.3	72	22.2		nne.			6		10		n.	9 h'r	9 h'r	h'vy	n.	raining.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.23	767.8	77	25.0		ene.			1		2		e.	0	0			clear.
Schr. Anna Thormann, N. 39° 30′, W. 35° 43′*	30.30	769.7	61.7	16.5	89	se.			6		0			0	0	r'gh	se.	misty.
Bk. Aureola, N. 48° 25′, W. 9° 29′*†	30.75	781.0	64	17.8		nw.			4		9		nnw.	0	0	long	wnw	hazy.
Bk. Achille F, N. 49° 30′ W. 1° —′†	30.59	777.0	50	10.0	93	calm			0		10			0	0	sm'h		foggy.
Bg. Annie R. Storer, N 22° 17′ W. 77° 20′*†	30.24	768.1				ne.			6		10		ne.	6 h'r	6 h'r	r'gh	ene.	cloudy.
Bk. Pilgrim, N. 3° 27′, W. 31° 40′*†	29.95	760.7				ene.			4		5?		ene.	0	0	mod.	ene.	clear. ?
Bg. Clara M. Goodrich, N. 26° 55′, W. 70° 30′						n.			5		2		n.	0	0	cross	var.	clear.
Bkt. U. S. Bushnell, Alicante, Spain	30.36	771.1				var.			1		0			0	0	sm'h		fine.
S. Cornelius, N. 42° 36′, W. 30° 12′†	30.44	773.2	59.0	15		s.			5		5		ssw.	0	0	mod.	sw.	fair.
Schr. C. R. Flint, N. 24° 45′, W. 61° 34′*†	30.17	766.3	73	22.8		calm			0		2		ese.	0	0	mod.	ene.	clear.
Bk. Commerce, Cadiz, Spain †	30.24	768.1	67	19.4		e.			4		0			0	0			fine.
S. S. Canonbury, N. 14° 18′, W. 44° 50′*†	30.13	765.3				ene.			2		3		ne	0	0	sm'h	n.	clear.
Bk. Chas. Stewart, N. 1° 12′, W. 29° 06′ †	30.06	763.5	76	24.4		var.			0–5		10		sw;ne.	rain	rain	mod.	e.	light rain.
Schr. Edith R. Seward, San Domingo, Hayti, W. I†	30.17	766.3	72	22.2		n.			2		2		nne.	0	0	mod.	ese.	clear.
S. E. J. Spicer, N. 37° 06′, W 65° 25′	30.26	768.6	49	9.4	100	nw.			5		5		nw.	20 h'r	20 h'r	high	nw.	fair.
Bk. E. D. Bigelow, N. 31° 54′, W. 54° 44′ *†	30.10	764.5				nnw.			0		10		nnw.	0	0	r'gh	nnw.	gloomy.
Schr. F. E. McDonald, N. 15° 40′ W., 59° 30′†	30.16	766.1				ene.			5					0	0	rg'h	e.	fine.
S. S. Foscolio, N. 35° 54′, E. 14° 42′†	30.37	771.4				nw.			2		1		nw.	0	0	light	nnw.	clear.
S. Festina Lente, N. 53° 25′, W. 33° 30′	30.08	764.0	44	6.7		sse.			2		10		w.	14 h'r	14 h'r	mod.	s.	light rain.
Bg. Gipsy Queen, Cardenas, Cuba, W. I*†	30.30	769.6	73	22.8		ne.			7									cloudy.
Bk. Guchen, N. 39° 09′, W. 16° 41′*†	30.30	769.7	53.6	12		ne.			3–5		7		ne.			sm'h	ne	
Bk. Galeon, N. 49° 26′, W 8° 44′			55	12.8		nnw.			4		1		e.			sm'h	nw.	fine
S. Hedwig, N. 59° 51′, W. 3° 08′	30.25	768.3	44.4	6.9	90	sw.			5		10		sw.	0	0	4	n.	overcast.
Bk. Hattie G. McFarland, Pascagoula, Miss*†	30.03	778.0	54	12.2		ne.			1		0			0	0			clear.
Bk. Horace Scudder, N. 0° 42′, W. 27° 25′*†	30.01	762.2	84	28.9		ne.			1		5		calm	10 minutes		light	e.	fine.
Schr. Isabel Alberto, N. 24° 08′, W. 82° 32′†	30.28	769.1				ne.			6		10		e.	sh'rs	sh'rs	h'vy	ene.	squally.
S. S. J. W. Wilson, Tuspan, Mexico*†	30.40	772.1	58	14.4		nw.			2		10			18 h'r	18 h'r			cloudy.
S. J. W. Gildemeister, N. 48° 18′, W. 11° 00′	30.07	779.0	53.2	11.8	96	nw.			2		10 s			0	0	3	nw.	foggy.
Bg. L. & W. Armstrong, Pointea Pitre, Guadeloupe*†	30.16	766.1				ene.			2		3		ene.	0	0			clearing.
Bg. Lillian, N. 22° 53′, W. 61° 20′†	30.18	766.6	77	25.0		ene.			3		2			0	0	mod.	ne.	clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.14	765.5				e.			3		8		e.	4 h'r	4 h'r			cloudy.
S. S. Madrid, N. 38° 13′ E. 12° 20′*†	30.40	772.1	58	14.4	76	wsw.			4		0			0	0	sm'h		fine.
Bk. Mary A. Troop, Sharpness Point, Eng*†	30.42	772.7				n.			2		0?			0	0			fair?
Bkt. Myrtle, St. Thomas, W. I						ene.			4		1		ene.	0	0			fair.
S. M. P. Grace. N. 50° 10′, W. 10° 35′ *	30.57	776.5	52	11.1		nnw.			3		4		ne.	0	0	sm'h	nw.	misty.
S. S. Mendoza, N. 10° 45′, W. 38° 49′*†	30.05	763.3				e.			3		4?		ene.	0	0	sm'h		clear ?
Bkt. Norena, N. 35° 20′, W. 73° 00′†	30.35	770 9				w.			5		2		w.	0	0	cross	v	clear.
Bk. Ottawa, N. 28° 38′, W. 28° 19′ *	30.09	764.3	73	22.8		e.			6		2		e.	0	0	mod.	e.	clear.
Bk. Reindeer, N. 34° 55′, W. 73° 00′						w.					5		w.			short	nw.	
S. Rudolph, N. 23° 56′, W. 59° 40′			76.5	24.7		ene.			1–2		1			0	0	mod.	nne.	fair.
Bk. Rebus, N. 31° 16′, W. 33° 14′*	29.99	761.7	66	18.9		s.			6		8		ese.	sqll's	sqll's	r'gh	s.	hazy.
Bk. Sunbeam, N. 22° 18′, W. 48° 55′	30.11	764.8	70	21.1	79	n.			6		8		n.	0	0	mod.	n.	cloudy.
Bk. Usko, N. 24° 12′, W. 33° 06′			70	21.1		ese.			1		4		se.	1 h'r	1 h'r	cross	var.	fair.
S. Vincenzo Accame, N. 49° 22′ W. 19° 04′*†	30.74	780.7	59.0	15.0		calm			0					0	0	sm'h	sw.	gloomy.
Schr. Viola Reppard, New York, N. Y†	29.98	761.5	48	8.9		nw.			4		4		nw.	0	0			
Schr. Wm. Wiler, St. Thomas Island, W. I†	30.11	764.8				ne.			5		2		ne.	0	0			fine.
S. S. Wm. Woodbury, N. 5° 52′, W. 16° 40′*	30.04	763.0	45	7.2		sw.			4		8		sw.			long	wsw.	foggy.
S. S. Colon, N. 16° 27′, W. 75° 48′ †	30.05	763.3	78	25.6		ne.			4		3		nne.	0	0	small	nne.	clear.
District No. 2.—South Atlantic.																		
H. M. S. Starling, S. 3° 23′, E. 10° 30′	29.85	758.2	75.5	24.2	95	calm			0		10							raining.
U. S. S. Brooklyn, Montevideo, Uruguay*	29.79	756.7	74	23.3	90	sw.			4		10		calm	0	0			hazy.
U. S. S Galena, Colonia, Uruguay*	29.80	756.9	76	24.4	85	sse.			4		10		se			mod.	se.	cloudy.
S. S. Grecian, Buenos Ayres, La Pata*	29.84	757.9	71	21.7	71	sse.			3		10		sse.	4 h'r	4 h'r			cloudy.
S. S. Caldew, S. 0° 29′, W. 22° 04′	30.02	762.5	82.3	27.9	81	ese.			3		5							d. clouds.
Bk. Ceres, S. 23° 47′, W. 39° 25′*	30.05	763.3	81.3	27.4	80	nnw.			3		7		nnw.	0	0	sm'h	nnw.	fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2—South Atlantic.—Continued.																		
Bk. Bore, S. 9° 29′, W. 29° 55′*†	30.39	771.9	84	28.9	.....	se.	.....	.....	4	.....	4	.....	se.	1 h'r	1 h'r	sm'h	ese.	fair.
S. Armenia, S. 15° 10′, W. 35° 40′*	29.93	760.2	84	28.9	72	e.	.....	.....	4	.....	4	.....	e.	0	0	sm'h	ne.	clear.
Bk Essex, S. 22° 09′, W. 0° 37′ *†	30.06	763.5	78.0	25.6	.....	se.	.....	.....	3	.....	5	.....	se.	1 h'r	1 h'r	mod.	s.	fine.
Bk. E. L. Pettingill, S. 2° 55′, W. 30° 15′*†	30.00	762.0	84	28.9	.....	e.	.....	.....	3	.....	3	.....	e.	0	0	sm'h	ne.	
S. E. B. Sutton, S. 39° 10′, W. 56° 18′†	29.88	758.9	63	17.2	89	sw.	.....	.....	3	.....	1	.....	sw.	0	0	sm'h	s.	hazy.
S. Grecian, S. 39° 34′, W. 8° 36′†	30.18	766.6	68	20.0	90	nne.	.....	.....	5	.....	0	.....	.....	.....	.....	long	sw.	hazy.
S. Sovereign of the Seas, S. 42° 11′, W. 33° 16′ *†	29.94	760.5	63	17.2	94	nw.	.....	.....	6	.....	9	.....	nw.	0	0	r'gh	nw.	cloudy.
S. Titan, S. 44° 19′, W. 62° 08′ *†	29.90	759.4	59	15.0	76	s.	.....	.....	7	.....	3	.....	s.	1 h'r	1 h'r	long	s.	fine.
Bkt. Wandering Jew, Montevideo, Urugnay †	29.82	757.4	71	21.7	.....	n.	.....	.....	4	.....	4	.....	n.	0	0	.....	.....	fair.
District No. 3—North Pacific.																		
S. S. Belgic, N. 42° 53′, W. 172° 44′*†	30.17	766.3	47	8.3	70	nne.	.....	.....	4	.....	10	.....	.....	0	0	long	n.	overcast.
S. S. Coptic, N. 36° 31′. E. 150° 34′	30.14	765.5	43.0	6.1	52	nw.	.....	.....	6	.....	6	.....	nw.	10 h'r	10 h'r	r'gh	nw.	hailing.
S. S. Oceanic, Hong Kong, China*	30.27	768.8	55	12.8	74	e.	.....	.....	4	.....	9	.....	sw.	.....	.....	.....	.....	cloudy.
S. S. Oregon, San Francisco, Cal†	30.15	765.8	50	10.0	93	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	hazy.
S. S. Mississippi, Seattle, Wash. Ter†	30.27	768.8	45	7.2	84	s.	.....	.....	1	.....	8	.....	sw.	.....	.....	.....	.....	fair
S. S. Willamette, N. 47° 24′ W. 124° 58′ †	30.26	768.6	46	7.8	100	s.	.....	.....	3	.....	0†	.....	.....	0.04	1.0	sm'h	.....	rainy?
S. S. Ancon, N. 32° 44′, W. 117° 22′ †	30.07	763.8	62	16.7	51	ene.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	hazy.
S. S. City of Chester, San Francisco. Cal*†	30.16	766.1	52	11.1	86	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Dakota, Seattle, Wash. Ter*†.	30.14	765.5	44	6.7	84	se.	.....	.....	2	.....	10	.....	s.	0	0	sm'h	.....	covered.
S. S. City of Pekin, Yokohama, Japan†	30.23	767.8	42	5.6	66	se.	.....	.....	3	.....	10	.....	se.	.....	.....	.....	.....	cloudy.
S. S. City of Rio de Janeiro, N. 31° 10′, W. 118° 17..	.....	.....	60	15.6	94	nw.	.....	.....	2	.....	0	.....	.....	0	0	light	nw.	clear.
S. S. Colima, Panama Panama†	29.98	761.5	77	25.0	95	nw.	.....	.....	2	.....	9	.....	n.	0	0	.....	.....	cloudy.
S. S. San José, N. 14° 00′, W 90° 48′†	29.95	760.7	78	25.6	91	ene.	.....	.....	1	2 c	.....	sw.	.....	0	0	long	wsw.	fair.
H. M. S. Curacoa, N. 33° 55′, E. 136° 47′	.....	.....	48.5	9.2	85	n.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
H. M. S. Mutine, N. 21° 18′, W. 157° 52′	29.95	760.7	70	21.1	.....	calm	.....	.....	0	.....	5	.....	.....	.....	.....	.....	.....	d. clouds
H. M. S. Swiftsure, N. 15° 40′, W. 142° 10′	30.00	762.0	72	22.2	100	ne.	.....	.....	4–5	.....	10	ne.	.....	.....	.....	.....	.....	d. clouds.
U. S. Naval Hospital, Yokohama, Japan*	30.29	769.4	41.5	5.3	82	w.	.....	.....	1	.....	8	.....	w.	0	0	.....	.....	cloudy.
U. S. S Independence, Mare Island, Cal	30.22	767.6	46	7.8	92	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Lackawanna, Honolulu, Sandwich Islands*	29.94	760.5	72	22.2	76	n.	.....	.....	1	.....	.....	.....	se.	.....	.....	.....	.....	fair.
U. S. S. Monocacy, Hong Kong, China	30.03	762.7	66	15.6	94	ene.	.....	.....	3	.....	10	.....	calm	.....	.....	sm'h	.....	misty.
U. S. S. Palos, Tientsin, China*	30.10	764.8	36	2.2	100	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Ranger, Mare Id, Cal	30.15	765.8	48	8.9	85	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Richmond, Hong Kong, China*	30.14	765.5	57	13.9	94	ene.	.....	.....	4	.....	10	.....	ene.	0	0	.....	.....	cloudy.
U. S. S. Wachusetts, Honolulu, Sandwich Ids	29.93	760.2	71	21.7	90	ene.	.....	.....	1	.....	10	.....	ne.	.....	.....	sm'h	.....	overcast.
S. S. Scotia, Saddle Id, China	30.20	767.1	43.9	6.6	92	e.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. Henry Failing, Wilmington, Cal	29.90	759.4	68	20.0	.....	se.	.....	.....	1	.....	5	.....	.....	0	0	sm'h	.....	fine.
Tamega, Macao. China	30.08	764.0	63.0	17.2	84	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	.....	overcast.
District No. 4—South Pacific.																		
S. S. City of New York, S. 7° 08′, W. 167° 10′ †..	29.85	758.2	86	30.0	84	e.	.....	.....	1	.....	8	.....	e.	0	0	mod.	se.	cloudy.
H. M. S. Comus, Callao, Peru	30.00	762.0	68	20.0	84	se.	.....	.....	1	.....	3	ese.	.....	.....	.....	.....	.....	d. clouds,
H. M. S. Heroine, Smyth's Channel, Patagonia	29.99	761.7	41	5.0	100	nnw.	.....	.....	3	.....	6	wnw.	.....	.....	.....	.....	.....	drizzling
H. M. S. Kingfisher, S. 9° 30′, W. 121° 12′	29.87	758.7	76	24.4	.....	e.	.....	.....	2	.....	4	.....	.....	.....	.....	3	e.	d. clouds
H. M. S. Lark, S. 36° 50′, E. 174° 49′	29.92	760.0	70.3	21.3	90	ne.	.....	.....	3	.....	8	.....	.....	.....	.....	1	ne.	squally.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.97	761.2	63	17.2	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Rocket, S. 42° 33′, W. 58° 00′	29.88	758.9	53	11.7	86	wsw.	.....	.....	2	.....	5	ssw.	.....	.....	.....	6	wsw.	d. clouds
H. M. S. Sylvia, Havergal Bay, Patagonia	29.91	759.7	44	6.7	84	ssw.	.....	.....	2–4	.....	9	.....	.....	.....	.....	.....	.....	showery.
U. S. S. Essex, Callao, Peru	29.94	760.5	67	19.4	89	calm	.....	.....	0	.....	2	.....	sse.	.....	.....	.....	.....	clear.
U. S. S. Iroquois, S. 38° 32′, W. 89° 04′	30.20	767.1	69	20.6	95	nw.	.....	.....	4	.....	10	.....	nw.	.....	.....	long	sw.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.06	763.5	68	20.0	74	s.	.....	.....	1	.....	2	.....	n.	.....	.....	.....	.....	clear.
U. S. S. Pensacola, Valparaiso, Chili *..	29.94	760.5	59	15.0	88	n.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....	cloudy.
British Merchant, S. 52° 50′, W. 107° 37′	29.98	761.5	50	10.0	86	n.	.....	.....	6	.....	7	.....	.....	.....	.....	.....	.....	showery.
Bk. Childwall, S. 33° 00′, W. 129° 06′ *	29.90	759.4	64	17.8	.....	calm	.....	.....	0	.....	3	.....	w.	0	0	light	s.	clear.
Bk. Edmund Phiney, S. 50° 48′, W. 79° 37′ †..	30.04	763.0	52	11.1	.....	nnw.	.....	.....	5	.....	10	.....	.....	0	0	long	sw.	cloudy.
Bk. Godeffroy, S. 38° 19′, W. 92° 44′ *	29.97	761.2	69.6	20.9	92	w.	.....	.....	5	.....	7	.....	w.	0	0	long	w.	fair.
S. St. Francis, S. 13° 15′, W. 128° 35′ †	29.90	759.4	78	25.6	.....	e.	.....	.....	2	.....	2	.....	e.	0	0	mod.	se.	fair.
S. S. Australia, Sydney, N. S. W *	29.29	744.0	71	21.7	95	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. May Halse, S. 56° 30′, W. 70° 03′	29.52	749.8	43	6.1	79	sw.	.....	.....	8	.....	10	.....	.....	.....	.....	.....	.....	drizzling
H. M. S. Gannet, S. 2° 12′, W. 79° 51′	29.91	759.7	77	25.0	91	ne.	.....	.....	1	.....	9	.....	.....	.....	.....	.....	.....	showery
Bk. Warden Law, S. 49° 50′ W. 84° 24′*	29.64	752.8	.....	.....	.....	n.	.....	.....	7	.....	3	.....	w.	2 h'r	2 h'r	h'vy	n.	fair.
S. Geo. Stetson, S. 47° — W. 80° — *†	29.85	758.2	57	13.9	94	nnw.	.....	.....	6	.....	6	.....	nw.	0	0	high	w.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 10° 30′, E. 46° 15′	29.93	760.2	83	28.3	.....	ene.	.....	.....	2–3	.....	7	sse.	.....	.....	.....	2	ese.	d. clouds
H. M. S. Eclipse, N. 30° 34′, E. 47° 49′	29.85	758.2	65	18.3	.....	ese.	.....	.....	1	.....	2	sse.	.....	.....	.....	.....	.....	d. clouds
H. M. S. Euryalus, Calcutta, India	29.84	757.9	77	25.0	86	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.94	760.5	82	27.8	.....	ese.	.....	.....	1	.....	5	calm	.....	.....	.....	1	ese	d. clouds.
H M. S. Woodlark, N. 22° 40′ E. 65° 40′	29.86	758.4	76.5	24.7	86	sw.	.....	.....	2	.....	2	wsw.	.....	.....	.....	2	wsw.	d. clouds.
S. S. Galatia, N. 21° 27′, E. 88° 07′ †	29.86	758.4	77	25.0	92,	e.	.....	.....	1	.....	6	.....	ne.	1 h'r	1 h'r	sm'h	.....	cloudy.
S. Sacramento, S. 43° 20′, E. 86° 30′ *†	30.30	769.6	55	12.8	80	wsw.	.....	.....	4	.....	7	.....	nw.	0	0	mod.	nw.	fair.

International Chart I. February 28, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B.Hazen, Chief Signal Officer.

Signal Office Lith.

SUMMARY AND REVIEW

OF

INTERNATIONAL METEOROLOGICAL OBSERVATIONS,

FEBRUARY, 1883.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea.		Result of Simultaneous Observations for February, 1883.																		Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.													
						Actual.		Reduced.					Directions.									Total Movement.				
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0–10	Inch.	Mill.
	° ′	° ′																								
ALGERIAN.																										
Nemours	N. 35 06	W. 1 50	0.00 m.	13	4	.....	.....	30.29	769.4	60.6	15.9	79.5	5	1	1	.....	16	.....	4	1	.....	.....	.....	0	0	0
Algiers	N. 36 47	E. 3 05	0.20 p.m.	72	22	.....	.....	30.27	768.8	59.2	15.1	64.0	4	4	8	5	1	.....	1	4	1	.....	.....	3	0.46	11.8
La Calle	N. 36 54	E. 8 26	0.42 p.m.	36	11	.....	.....	30.20	767.0	60.4	15.8	68.5	1	8	10	5	3	.....	1	.....	.....	.....	.....	3	1.54	39.0
Tunis	N. 36 42	E. 10 13	0.49 p.m.	46	14	.....	.....	30.19	766.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saida	N. 34 51	E. 0 10	0.09 p.m.	2844	867	.....	.....	30.28	769.1	61.0	16.1	72.6	.....	4	5	10	.....	4	3	2	.....	.....	.....	1	0.18	4.7
Tebessa	N. 35 24	E. 8 06	0.40 p.m.	2890	881	.....	.....	30.28	769.1	53.2	11.8	64.3	8	11	5	1	1	.....	1	1	.....	.....	.....	1	0.41	10.5
Geriville	N. 33 45	E. 1 10	0.13 p.m.	4285	1306	.....	.....	.....	.....	56.7	13.7	24.9	3	14	1	4	3	3	.....	.....	.....	.....	.....	1	0.12	3.0
Laghouat	N. 33 48	E. 2 53	0.20 p.m.	2559	780	.....	.....	30.30	769.7	56.3	13.5	41.5	7	6	2	1	5	1	2	4	.....	.....	.....	0	0	0
Biskra	N. 34 51	E. 5 41	0.31 p.m.	410	125	.....	.....	30.29	769.4	67.6	19.8	28.6	3	14	.....	.....	1	3	.....	1	6	.....	.....	2	inap.	inap.
AUSTRALIAN.																										
Melbourne	S. 37 50	E. 144 58	9.47 p.m.	91	28	29.76	755.9	29.85	758.2	64.6	18.1	75	2	.....	2	2	5	11	4	.....	2	.....	.....	5	1.56	39.6
AUSTRIAN.																										
Agram	N. 45 48	E. 15 53	1.12 p.m.	536	163	29.72	754.9	30.30	769.5	41.2	5.1	67.8	.....	.....	2	6	2	3	5	10	.....	.....	.....	6	1.05	26.7
Cracow	N. 50 04	E. 20 00	1.28 p.m.	722	220	29.46	748 3	30.26	768.7	34.7	1.5	81.0	1	4	3	4	.....	.....	2	14	.....	.....	.....	5	0.62	15.7
Eperies	N. 48 58	E. 21 15	1.33 p.m.	820	250	29.35	745.5	30.26	768.6	29.7	—1.3	81.5	.....	5	.....	.....	4	.....	.....	.....	19	.....	.....	5	0.86	21.9
Gratz	N. 47 04	E. 15 28	1.10 p.m.	1171	357	28.98	736.1	30.28	769.1	39.2	4.0	72.4	3	5	2	4	4	2	6	.....	2	.....	.....	7	0.91	23.2
Hermannstadt	N. 45 47	E. 24 13	1.45 p.m.	1352	412	28.78	730.9	30.26	768.7	33.6	0.9	85	.....	7	.....	3	4	9	5	.....	.....	.....	.....	5	1.06	26.8
Kremsmünster	N. 48 03	E. 14 08	1.04 p.m.	1260	384	28.87	733.4	30.28	769.1	35.6	2.0	85.5	.....	3	8	.....	1	2	2	6	6	.....	.....	9	1.63	41.4
Lemberg	N. 49 50	E. 24 00	1.44 p.m.	978	298	29.24	742.6	30.28	769.2	30.9	—0.6	69.8	1	3	1	1	8	9	2	3	.....	.....	.....	5	1.02	26.0
Neu Schmecks	N. 49 10	E. 20 14	1.29 p.m.	3297	1005	26.74	679.2	30.23	767.9	35.8	2.1	59.6	1	.....	2	3	.....	1	5	1	15	.....	.....	5	2.74	69.7
Pola	N. 44 52	E. 13 51	1.04 p.m.	105	32	30.12	765.1	30.24	768.0	47.8	8.8	68.6	.....	3	4	2	2	5	6	6	.....	.....	.....	4	2.55	64.7
Szathmar	N. 47 46	E. 22 53	1.39 p.m.	430	131	29.75	755.7	30.21	767.2	38.5	3.6	62	7	1	2	1	3	5	8	1	.....	.....	.....	4	0.53	13.4
Szegedin	N. 46 15	E. 20 10	1.29 p.m.	256	78	29.98	761.5	30.27	768.9	39.0	3.9	69.6	2	1	7	.....	9	4	.....	1	4	.....	.....	6	0.44	11.1
Trieste	N. 45 39	E. 13 46	1.04 p.m.	85	26	30.14	765.5	30.24	768.0	47.1	8.4	61.3	.....	.....	.....	3	.....	3	2	10	10	.....	.....	5	2.07	52.6
Vienna	N. 48 12	E. 16 22	1.14 p.m.	663	202	29.56	750.8	30.30	769.7	37.6	3.1	70.6	2	4	6	.....	.....	12	.....	.....	4	.....	.....	6	1.04	26.3
BRITISH.																										
Aberdeen	N. 57 10	W. 2 06	0.00 m.	89	27	29.74	755.4	29.84	757.9	43.8	6.6	74.2	1	2	4	6	8	6	1	.....	.....	.....	.....	6	4.70	119.4
Armagh	N. 54 21	W. 6 39	11.42 a.m.	207	63	29.64	752.8	29.88	758.9	43.6	6.4	81.4	.....	1	2	12	8	4	1	.....	.....	.....	.....	6	.....	.....
Bidston	N. 53 24	W. 3 04	11.56 a.m.	197	60	.....	.....	29.98	761.5	45.5	7.5	77.9	.....	1	8	8	3	6	2	.....	.....	.....	.....	6	.....	.....
Bolton	N. 53 35	W. 2 28	11.58 a.m.	500	152	29.42	747.3	29.96	761.0	43.7	6.5	81.2	.....	2	4	6	10	6	.....	.....	.....	.....	.....	8	.....	.....
Bradford *d*	N. 53 48	W. 1 47	0.01 p.m.	366	111	29.54	750.3	29.94	760.5	44.5	6.9	79.8	.....	1	2	12	.....	9	.....	.....	.....	.....	.....	7	1.52	38.6
Bridgetown	N. 13 04	W. 59 37	8.10 a.m.	28	9	29.99	761.7	30.02	762.5	80.7	27.1	69.3	.....	.....	.....	.....	.....	.....	.....	28	.....	.....	.....	4	.....	.....
Cardington	N. 52 08	W. 0 27	0.06 p.m.	109	33	30.02	762.5	30.13	765.3	46.8	8.2	80.6	.....	5	11	3	6	3	.....	.....	.....	.....	.....	7	.....	.....
Chatham	N. 51 25	E. 0 33	0.10 p.m.	120	37	29.90	761.0	30.11	764.8	45.6	7.6	82.4	.....	2	3	9	6	1	.....	.....	7	.....	.....	8	.....	.....
Falmouth	N. 50 09	W. 5 04	11.48 a.m.	211	64	29.84	757.9	30.07	763.8	47.6	8.9	78.1	.....	3	5	7	9	3	1	.....	.....	.....	.....	7	.....	.....
Fort Napier	S. 30 00	E. 31 00	2.12 p.m.	2205	672	27.56	700.0	29.78	756.4	80.6	27.0	60.6	1	.....	1	.....	2	4	16	4	.....	.....	.....	6	.....	.....
Freetown	N. 8 30	W. 13 14	11.50 a.m.	224	68	29.63	752.6	29.86	758.4	86.5	30.3	87.7	6	4	4	3	2	.....	8	1	.....	.....	.....	3	.....	.....
Galway	N. 53 15	W. 9 03	11.32 a.m.	32	10	29.81	757.2	29.85	758.2	44.2	6.8	85.6	.....	1	5	14	5	2	1	.....	.....	.....	.....	7	4.53	115.1
Gibraltar	N. 36 09	W. 5 21	11.47 a.m.	50	15	30.21	767.3	30.27	768.8	61.6	16.4	93.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....
Glasgow	N. 55 53	W. 4 17	11.51 a.m.	184	56	29.62	752.3	29.83	757.7	44.1	6.7	70.3	.....	.....	.....	4	11	7	5	1	.....	.....	.....	7	.....	.....
Greenwich	N. 51 29	0 00	0.08 p.m.	159	48	29.91	759.7	30.09	764.3	45.3	7.4	80.1	.....	2	3	11	6	2	1	.....	1	.....	.....	8	1.85	47.0
Guernsey	N. 49 27	W. 2 41	11.58 a.m.	275	84	29.83	757.7	30.12	765.0	47.6	8.7	82.8	.....	5	6	8	3	5	.....	.....	1	.....	.....	6	.....	.....
Kew	N. 51 28	W. 0 19	0.07 p.m.	34	10	30.05	763.3	30.09	764.3	45.8	7.7	79.6	.....	2	6	8	10	1	1	.....	.....	.....	.....	7	.....	.....
Leicester	N. 52 39	W. 1 08	0.04 p.m.	245	75	29.76	755.9	30.02	762.5	45.9	7.7	78.5	.....	6	2	16	1	3	.....	.....	.....	.....	.....	7	.....	.....
Malta	N. 36 00	E. 14 30	1.00 p.m.	70	21	30.07	763.8	30.15	765.8	58.6	14.8	87.3	2	9	2	2	1	5	2	5	.....	.....	.....	5	2.51	63.8
Nassau	N. 25 04	W. 77 22	6.58 a.m.	44	13	30.18	766.6	30.22	767.6	74.3	23.5	77.8	.....	.....	.....	.....	.....	10	11	7	.....	.....	.....	5	.....	.....
Oscott *a*	N. 52 28	W. 1 55	0.00 m.	483	147	29.47	748.5	30.00	762.0	45.2	7.3	80.7	1	1	5	5	10	3	2	.....	.....	.....	.....	7	.....	.....
Oxford	N. 51 46	W. 1 17	0.03 p.m.	210	64	29.83	757.7	30.05	763.3	45.9	7.7	81.9	.....	3	2	9	6	7	.....	.....	1	.....	.....	7	.....	.....
Plymouth	N. 50 22	W. 4 10	11.51 a.m.	69	21	30.02	762.5	30.10	764.5	47.5	8.6	88.1	...	3	5	8	2	6	.....	1	3	.....	.....	8	.....	.....
Sandwick Manse	N. 59 05	W. 3 20	11.54 a.m.	94	29	29.61	752.1	29.71	754.6	41.5	5.3	86.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....
Seutari Cemet'y	N. 41 00	E. 29 03	2.04 p.m.	60	18	30.11	764.8	30.17	766.3	39.2	4.0	76.9	14	4	.....	3	1	2	.....	4	.....	.....	.....	8	.....	.....
Sheffield	N. 53 23	W. 1 28	0.02 p.m.	260	79	29.72	754.9	30.02	762.5	46.6	8.1	80.1	.....	2	5	13	4	3	.....	.....	1	.....	.....	6	2.16	54.9
Silloth Rectory	N. 54 52	W. 3 22	11.54 a.m.	28	9	29.86	758.4	29.89	759 2	44.9	7.2	81.2	.....	.....	5	15	4	3	1	.....	.....	.....	.....	7	1.72	43.7
Stonyhurst	N. 53 51	W. 2 28	11.58 a.m.	361	110	.....	.....	30.01	762.2	43.8	6.6	77.8	.....	1	10	6	8	1	2	.....	.....	.....	.....	8	.....	.....
Stratfield Turgiss	N. 51 17	W. 0 53	0.04 p.m.	197	60	29.87	758.7	30.09	764.3	46.8	8.2	83.4	1	3	9	7	4	4	.....	.....	.....	.....	.....	7	.....	.....
Truro	N. 50 16	W. 5 04	11.53 a.m.	43	13	30.03	762.7	29.98	764.0	51.3	10.7	78.9	.....	5	6	9	3	4	1	.....	.....	.....	.....	7	.....	.....
Valencia	N. 51 55	W. 10 18	11.27 a.m	23	7	29.86	758.4	29.89	759.2	46.0	8.1	77.9	.....	4	4	9	3	7	1	.....	.....	.....	.....	9	.....	.....
Sub-series.																										
Gozo	N. 36 01	E. 14 16	1.05 p.m.	364	111	29.79	756.7	30.18	766.6	56.9	13.8	68.6	.....	12	4	3	3	3	1	2	.....	.....	.....	4	4.40	111.8
CANADIAN.																										
Bathurst *d*	N. 47 39	W. 65 43	7.45 a.m.	35	11	.....	.....	.....	.....	5.1	—14.9	.....	.....	5	.....	1	.....	.....	1	.....	17	.....	.....	3	1.50	38.1
Charlottetown	N. 46 14	W. 63 10	7.55 a.m.	38	12	30.05	763.3	30.10	764.5	11.0	—11.7	86.7	2	6	9	2	4	2	1	1	1	6273	10096	5	2.85	72.4
Chatham	N. 47 03	W. 65 29	7.45 a.m.	56	17	30.06	763.5	30.13	765.3	2.7	—16.3	91.8	.....	5	6	10	.....	2	.....	1	4	3069	4939	5	2.56	65.0
Cornwall	N. 45 01	W. 74 43	7.09 a.m.	175	53	29.91	759.7	30.16	766.1	9.7	—12.4	95.1	2	5	11	3	.....	.....	4	3	.....	.....	.....	8	1.70	43.2
Dalhousie *a*	N. 48 04	W. 66 21	7.32 a.m.	45	14	30.04	763.0	30.09	764.3	4.3	—15.4	.....	.....	.....	.....	16	.....	.....	4	.....	7	.....	.....	8	1.82	46.2
Father Point	N. 48 31	W. 68 28	7.34 a.m.	20	6	30.06	763.5	30.08	764.0	7.2	—13.8	86.9	2	9	2	7	2	.....	.....	2	4	14158	22784	8	1.00	25.4
Fort Garry	N. 49 51	W. 97 07	5.39 a.m.	754	230	29.37	746.0	30.26	768.6	—12.0	—24.9	77.0	8	5	4	5	2	2	.....	2	.....	7384	11884	4	0.58	14.7
Fredericton	N. 45 57	W. 66 39	7.41 a.m.	59	18	30.11	764.8	30.18	766.6	5.8	—14.6	88.5	.....	10	3	.....	.....	.....	4	2	9	.....	.....	5	2.89	73.4
Granton	N. 43 12	W. 81 21	6.43 a.m.	1015	309	29.05	737.9	30.24	768.1	13.8	—10.1	93.5	1	7	6	4	1	2	1	2	4	.....	.....	7	3.75	95.2
Halifax	N. 44 39	W. 63 36	7.53 a.m.	122	37	30.02	762.5	30.16	766.1	15.7	—9.1	90.3	3	5	12	1	2	1	.....	1	3	.....	.....	5	4.21	106.9
Hamilton	N. 43 16	W. 79 53	6.49 a.m.	338	103	29.78	756.4	30.19	766.8	18.8	—7.3	88.8	1	2	2	19	.....	.....	1	3	.....	.....	.....	7	1.50	38.1
Kingston	N. 44 14	W. 76 30	7.02 a.m.	307	94	29.81	757.2	30.17	766.3	14.4	—9.8	86.3	1	2	8	6	2	1	1	7	.....	6955	11192	7	2.39	60.7
Little Glace Bay	N. 46 12	W. 59 58	8.08 a.m.	34	10	29.99	761.7	30.03	762.7	18.1	—7.7	79.2	2	13	2	6	1	3	.....	1	.....	.....	.....	8	2.52	64.0
Montreal	N. 45 31	W. 73 33	7.13 a.m.	187	57	29.93	760.2	30.15	765.8	10.0	—12.2	85.5	2	1	9	2	4	1	2	5	1	.....	.....	5	2.20	55.9
Ottawa	N. 45 26	W. 75 45	7.05 a.m.	223	68	29.88	758.9	30.15	765.8	7.8	—13.4	89.1	1	2	6	1	3	1	3	6	5	.....	.....	5	3.93	99.8
Parry Sound	N. 45 19	W. 80 01	6.48 a.m.	635	194	29.41	747.0	30.16	766.1	8.5	—13.1	79.3	2	.....	10	2	1	7	4	.....	2	7559	12165	8	3.93	99.8
Peterboro	N. 44 17	W. 78 20	6.54 a.m.	688	210	29.48	748.8	30.26	768.6	10.9	—11.7	81.4	1	.....	10	5	.....	.....	4	1	7	.....	.....	6	0.96	24.4
Port Dover	N. 42 47	W. 80 13	6.47 a.m.	635	194	29.47	748.5	30.22	767.6	18.1	—7.7	79.8	2	2	8	7	1	.....	1	2	5	5726	9214	6	4.77	121.2
Port Stanley	N. 42 40	W. 81 13	6.43 a.m.	592	180	29.54	750.3	30.24	768.1	19.0	—7.2	88.1	2	.....	18	.....	1	.....	1	1	1	.....	.....	6	3.83	97.3
Quebec	N. 46 48	W. 71 12	7.23 a.m.	293	89	29.80	756.9	30.15	765.8	4.6	—15.2	85.1	1	5	11	2	.....	.....	3	3	3	.....	.....	5	5.15	130.8
Rockliffe	N. 46 10	W. 77 48	6.57 a.m.	418	127	29.64	752.8	30.14	765.5	0.0	—17.8	81.8	.....	7	3	.....	.....	2	3	1	12	.....	.....	5	1.74	44.2
Saugeen	N. 44 30	W. 81 21	6.42 a.m.	656	200	29.40	746.7	30.16	766.1	16.7	—8.5	92.5	3	3	7	6	2	6	.....	1	.....	11425	18386	9	5.32	135.1
Saint Andrews	N. 43 04	W. 81 06	6.34 a.m.	47	14	30.08	764.0	30.14	765.5	15.3	—9.3	89.5	4	9	6	4	.....	1	2	1	.....	.....	.....	5	2.73	69.3
Saint John, N. B.	N. 45 17	W. 66 03	7.44 a.m.	150	46	29.98	761.5	30.16	766.1	14.1	—9.9	89.0	9	7	3	2	1	1	3	2	.....	.....	.....	5	2.12	53.8
Saint Pierre	N. 46 47	W. 56 08	8.24 a.m.	?	?	.....	.....	29.97	761.2	17.0	—8.3	.....	4	11	6	3	1	1	1	1	.....	.....	.....	.....	0.39	9.9
Stratford	N. 43 23	W. 81 00	6.44 a.m.	1182	360	28.85	732.8	30.24	768.1	12.1	—11.1	93.4	.....	6	11	2	1	4	2	.....	2	.....	.....	7	5.30	134.6
Sydney	N. 46 08	W. 60 10	8.07 a.m	37	11	30.04	763.0	30.10	764.5	10.5	—11.9	90.1	.....	4	9	5	5	1	1	1	2	7499	12008	6	2.94	74.7
Toronto	N. 43 39	W. 79 23	6.50 a.m.	350	107	29.81	757.2	30.22	767.6	16.8	—8.4	88.3	2	4	10	4	.....	.....	2	4	2	8194	13187	5	2.54	64.5
Windsor	N. 44 59	W. 63 58	7.53 a.m.	87	26	30.02	762.5	30.12	765.0	5.5	—14.7	85.9	3	.....	14	3	4	.....	3	.....	1	.....	.....	6	.....	.....
Woodstock	N. 43 08	W. 80 47	6.48 a.m.	980	299	29.10	739.1	30.26	768.6	13.8	—10.1	87.2	2	2	4	8	2	.....	3	5	2	.....	.....	6	6.45	163.8
Yarmouth	N. 43 50	W. 66 02	7.44 a.m.	61	19	30.09	764.3	30.16	766.1	22.2	—5.4	78.6	3	10	1	.....	2	2	5	5	.....	9095	14636	7	4.26	108.2
CAPE COLONY																										
Cape St. Francis	S. 34 10	E. 24 50	1.47 p.m.	25	7	29.87	758.7	29.90	759.4	71.7	22.1	82.9	.....	.....	4	12	2	3	6	1	.....	.....	.....	4	0.22	5.6
Springbok	S. 29 45	E. 17 43	1.19 p.m	?	?	27.86	707.6	.....	.....	83.9	28.8	58.8	.....	2	1	9	.....	11	5	.....	.....	.....	.....	.....	.....	.....

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea.		Result of Simultaneous Observations for February, 1883.																		Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.													
						Actual.		Reduced.					Directions.									Total Movement.				
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0–10	Inch.	Mill.
CHINESE. (*Sub*).																										
Sung-shu-chwang	N. 36 07	E. 103 56	7.04 p.m.	4987	1520	24.58	624.3	.....	.....	21.4	— 5.9	.....	...	3	.....	.....	2	4	2	2	15	.....	.....	1	.....	.....
Tchang-kia-tchouang.	N. 38 17	E. 116 14	7.53 p.m.	98	30	30.30	769.5	30.41	772.3	28.0	— 2.2	90	1	1	.....	8	2	2	3	5	6	.....	.....	6	1.63	41.5
Zi-Ka-Wei	N. 31 12	E. 121 26	8.14 p.m.	22	7	30.31	769.9	30.34	770.5	37.2	2.9	89	9	2	5	.....	.....	1	4	6	1	.....	.....	8	3.58	90.9
DANISH.																										
Copenhagen	N. 55 41	E. 12 36	0.58 p.m.	43	13	30.10	764.4	30.14	765.6	35.8	2.1	80	1	4	5	.....	1	12	5	.....	.....	.....	.....	7	.....	.....
Fanöe	N. 55 27	E. 8 24	0.42 p.m.	20	6	30.08	764.0	30.10	764.5	37.6	3.1	90	.....	4	5	3	6	7	2	1	.....	.....	.....	7	.....	.....
Godthaab	N. 64 11	W. 51 46	8.41 a.m.	36	11	29.16	740.7	29.21	741.8	3.7	—15.7	95	6	8	1	2	6	1	2	1	1	.....	.....	8	.....	.....
Ivigtut	N. 61 12	W. 48 00	8.56 a.m.	16	5	29.13	739.8	29.15	740.3	6.6	—14.1	.....	2	.....	1	1	.....	3	.....	3	18	.....	.....	6	.....	.....
Jacobshavn	N. 69 13	W. 50 55	8.44 a.m.	42	13	29.22	742.2	29.27	743.4	—3.1	—19.5	.....	.....	.....	1	3	3	4	4	.....	13	.....	.....	5	.....	.....
Stykkisholm	N. 65 05	W. 22 46	10.37 a.m.	36	11	28.97	735.9	29.02	737.0	30.9	— 0.6	88	.....	.....	3	5	2	10	4	2	2	.....	.....	8	.....	.....
Thorshavn	N. 62 02	W. 6 44	11.41 a.m.	29	9	29.51	749.6	29.55	750.5	41.2	5.2	82	.....	1	4	8	6	7	.....	1	1	.....	.....	8	.....	.....
Upernavik	N. 72 47	W. 56 00	8.24 a.m.	39	12	29.24	742.7	29.29	743.9	—7.6	—22.0	.....	2	1	.....	3	2	.....	12	2	6	.....	.....	6	.....	.....
Vestervig	N. 56 47	E. 8 20	0.41 p.m.	82	25	29.98	761.4	30.07	763.7	36.3	2.4	89	.....	3	4	2	1	8	8	1	1	.....	.....	8	.....	.....
FRENCH.																										
Agen	N. 44 12	E. 0 38	0.11 p.m.	604	184	29.68	753.8	30.35	770.8	47.7	8.7	86.7	.....	1	2	.....	1	7	.....	1	16	.....	.....	.....	2.26	57.5
Alençon	N. 48 26	E. 0 05	0.09 p.m.	476	145	29.67	753.5	30.22	767.5	43.9	6.6	91.7	5	1	.....	7	9	4	1	1	.....	.....	.....	6	1.32	33.5
Arras	N. 50 18	E. 2 46	0.19 p.m.	239	73	29.93	760.2	30.20	767.0	44.4	6.9	86.4	1	3	6	6	6	4	.....	2	.....	.....	.....	.....	1.68	42.6
Avignon	N. 43 57	E. 4 48	0.27 p.m.	65	20	30.13	765.3	30.21	767.3	51.8	11.0	62	9	13	.....	.....	1	3	2	..	.....	.....	.....	3	1.75	44.5
Bar-sur-Seine	N. 48 07	E. 4 22	0.25 p.m.	518	158	29.70	754.3	30.27	768.8	45.1	7.3	75	2	2	3	7	6	4	1	3	.....	.....	.....	7	1.19	30.3
Beauvais	N. 49 26	E. 2 05	0.16 p.m.	246	75	29.95	760.7	30.22	767.7	45.7	7.6	75.2	1	3	7	4	6	3	4	.....	.....	.....	.....	7	1.48	37.5
Besançon	N. 47 14	E. 6 02	0.32 p.m.	846	258	29.32	744.7	30.24	768.2	49.3	9.6	75.7	3	2	.....	10	2	1	1	9	.....	.....	.....	.....	3.07	78.0
Bordeaux	N. 44 50	E. 0 32	0.06 p.m.	243	74	30.00	761.9	30.27	768.8	48.9	9.4	72.3	5	2	4	1	2	10	1	3	.....	.....	.....	7	2.09	53.1
Bourges	N. 47 10	E. 2 26	0.17 p.m.	540	156	29.68	753.9	30.25	768.3	45.9	7.7	79.3	3	.....	5	5	3	2	7	3	.....	.....	.....	5	1.57	39.9
Brest	N. 48 24	W. 4 30	11.50 a.m.	210	64	29.92	760.0	30.17	766.2	50.5	10.3	84.7	1	2	4	11	4	3	.....	3	.....	.....	.....	6	11.06	280.8
Caen	N. 49 11	W. 0 21	0.07 p.m.	69	21	30.09	764.3	30.17	766.2	46.8	8.2	82.2	9	7	.....	.....	1	2	4	5	.....	.....	.....	6	1.61	40.8
Chalons-sur-Marne	N. 48 57	E. 4 21	0.25 p.m.	294	90	29.89	759.2	30.21	767.2	45.3	7.4	81.1	2	1	2	3	8	4	1	.....	7	.....	.....	6	1.37	34.7
Charleville	N. 49 46	E. 4 49	0.27 p.m.	476	145	29.69	754.2	30.21	767.4	43.2	6.2	76.4	3	1	8	2	3	5	6	.....	.....	.....	.....	7	2.07	52.5
Clermont-Fd	N. 45 46	E. 3 05	0.20 p.m.	1273	388	28.89	733.7	30.28	769.0	46.2	7.9	68.0	9	3	2	2	4	1	1	6	.....	.....	.....	6	1.74	44.3
Cluny	N. 46 26	E. 4 39	0.27 p.m.	787	240	29.41	747.0	30.28	769.1	45.7	7.6	72.7	6	3	4	4	4	2	.....	5	.....	.....	.....	7	1.59	40.4
Commercy	N. 48 46	E. 5 35	0.30 p.m.	797	243	29.39	746.4	30.27	768.9	43.7	6.5	89.8	.....	5	12	4	.....	3	3	1	.....	.....	.....	6	1.21	30.8
Gap	N. 44 33	E. 6 05	0.32 p.m.	2424	739	27.65	702.4	30.24	768.2	45.0	7.2	34.0	4	1	2	1	.....	1	.....	.....	19	.....	.....	3	3.32	84.4
Gréasque	N. 43 25	E. 5 37	0.31 p.m.	1056	322	29.06	738.0	30.19	766.9	53.4	11.9	59.6	2	.....	.....	.....	6	6	7	7	.....	.....	.....	5	2.12	53.9
Grenoble	N. 45 12	E. 5 43	0.31 p.m.	715	218	29.49	749.0	30.28	769.1	46.4	8.0	68.8	3	9	5	1	2	2	6	.....	.....	.....	.....	.....	1.36	34.5
Gueret	N. 46 10	E. 1 52	0.16 p.m.	1486	453	28.66	728.0	30.28	769.2	45.9	7.7	71.8	2	2	3	10	1	2	1	7	.....	.....	.....	.....	1.79	45.5
Lamballe	N. 48 28	W. 2 31	11.58 a.m.	252	77	29.95	760.8	30.23	767.8	47.8	8.8	79.2	2	2	3	12	1	5	2	.....	.....	.....	.....	6	2.22	56.4
Lescar	N. 43 20	W. 0 26	0.06 p.m.	525	160	29.67	753.6	30.24	768.2	52.7	11.5	60.1	4	3	5	7	.....	2	5	2	.....	.....	.....	.....	4.26	108.3
Lorient	N. 47 45	W. 3 21	11.55 a.m.	86	26	30.10	764.4	30.20	767.0	50.4	10.2	73.1	2	.....	2	7	10	1	3	.....	3	.....	.....	7	3.73	94.8
Lyon	N. 45 41	E. 2 30	0.25 p.m.	981	299	29.21	741.8	30.29	769.4	44.8	7.1	71.7	6	7	1	.....	3	6	2	3	..	.....	.....	5	1.50	38.0
Mans	N. 48 01	E. 0 12	0.09 p.m.	285	87	29.93	760.2	30.24	768.0	45.5	7.5	82.5	4	6	4	6	2	5	.....	1	.....	.....	.....	6	1.37	34.8
Marseille	N. 43 18	E. 5 23	0.29 p.m.	246	75	29.92	759.9	30.19	766.8	56.3	13.5	64.2	.....	6	6	5	1	5	4	1	.....	.....	.....	6	0.78	19.9
Mont Louis	N. 42 30	E. 2 07	0.16 p.m.	5203	1586	24.95	633.7	29.79	756.7	41.5	5.3	43.9	2	4	5	7	1	1	1	7	.....	.....	.....	3	0.89	22.5
Montpellier	N. 43 37	E. 3 53	0.24 p.m.	118	36	30.07	763.8	30.20	767.0	54.9	12.7	68.7	17	.....	.....	.....	3	2	3	.....	3	.....	.....	3	1.20	32.0
Nancy	N. 48 42	E. 6 11	0.33 p.m.	725	221	29.41	746.9	30.21	767.4	44.1	6.7	73.0	1	1	6	6	8	2	.....	4	.....	.....	.....	.....	1.22	31.1
Nantes	N. 47 13	W. 1 33	0.02 p.m.	134	41	30.10	764.5	30.26	768.6	51.4	10.8	67.5	2	1	3	7	6	3	5	1	.....	.....	.....	7	2.06	52.4
Perpignan	N. 42 42	E. 2 53	0.19 p.m.	105	32	30.13	765.4	30.24	768.2	56.1	13.4	48.6	8	6	.....	1	1	6	2	3	1	.....	.....	4	0.20	5.2
Pic du Midi (Sum-	N. 42 56	W. 0 08	0.08 p.m.	9380	2859	21.27	540.2	.....	.....	23.9	— 4.5	.....	1	4	4	7	.....	1	1	10	.....	.....	.....	5	4.02	102.0
Privas.....[mit.)	N. 44 45	E. 4 36	0.26 p.m.	997	304	29.17	741.0	30.26	768.7	48.0	8.9	68.0	14	2	.....	1	5	1	1	2	2	.....	.....	4	7.53	191.3
Puy de Dome	N. 45 46	E. 2 58	0.20 p.m.	4813	1467	25.26	641.6	.....	.....	31.8	— 0.1	79.4	4	2	6	3	3	.....	3	7	.....	.....	.....	4	4.29	109.0
Rochefort	N. 45 56	W. 0 58	0.04 p.m.	29	9	30.22	767.6	30.25	768.4	50.9	10.5	81.1	1	.....	.....	4	4	4	.....	6	9	.....	.....	5	5.94	151.0
Roche-sur-Yon	N. 46 40	W. 1 26	0.02 p.m.	198	60	29.99	761.7	30.21	767.3	49.3	9.9	78.6	2	4	6	6	2	5	2	1	.....	.....	.....	3	2.18	55.4
Rodez	N. 44 21	E. 2 34	0.18 p.m.	2050	625	28.06	712.8	30.26	768.7	44.6	7.0	71.9	1	8	.....	1	2	14	1	1	.....	.....	.....	.....	2.20	55.9
Rouen	N. 49 26	E. 1 05	0.12 p.m.	39	12	30.17	766.2	30.21	767.4	46.6	8.1	77.3	.....	5	6	6	3	6	2	.....	.....	.....	.....	7	1.59	40.3
Saint Lo	N. 49 06	W. 1 05	0.04 p.m.	134	41	.....	.....	.....	.....	47.5	8.6	73.7	10	2	9	7	2	3	.....	1	.....	.....	.....	5	2.21	56.2
Saint Maur	N. 48 48	E. 2 21	0.17 p.m.	162	49	30.07	763.8	30.24	768.0	47.5	8.6	92.5	2	.....	5	4	11	1	3	.....	2	.....	.....	6	1.26	32.1
Toulouse	N. 43 37	E. 1 27	0.14 p.m.	636	194	29.58	751.3	30.31	769.8	49.3	9.6	76.2	2	5	5	4	1	10	.....	1	.....	.....	.....	4	2.23	56.7
Tours	N. 47 24	E. 0 41	0.11 p.m.	107	51	30.07	763.8	30.25	768.3	48.7	9.3	69.6	4	1	1	6	6	4	2	4	.....	.....	.....	5	1.75	44.5
Versailles	N. 48 48	E. 2 07	0.16 p.m.	445	136	29.73	755.1	30.22	767.6	44.8	7.1	76.5	2	6	5	8	5	1	.....	1	.....	.....	.....	.....	1.00	27.0
Sub-Series.																										
St. Martin du Hinx.	N. 43 35	W. 1 16	0.03 p.m.	131	40	30.13	765.3	30.28	769.1	53.2	11.8	66.4	2	3	8	2	2	1	4	6	.....	.....	.....	5	5.10	129.4
GERMAN.																										
Ansbach	N. 49 18	E. 10 36	0.50 p.m.	1358	414	28.79	731.2	30.30	769.6	38.5	3.6	79.0	.....	4	7	4	2	6	2	1	2	.....	.....	7	0.78	19.7
Bamberg	N. 49 54	E. 10 54	0.51 p.m.	787	240	29.37	746.1	30.22	767.7	40.1	4.5	74.3	1	5	3	1	1	7	.....	10	.....	.....	.....	6	0.80	20.2
Berlin	N. 52 30	E. 13 19	1.02 p.m.	131	40	30.08	763.9	30.22	767.7	39.0	3.9	71.2	....	5	4	3	2	5	6	3	.....	.....	.....	7	0.30	7.6
Breslau	N. 51 07	E. 17 02	1.17 p.m.	482	147	29.72	754.9	30.26	768.5	36.7	2.6	72.5	1	3	5	2	2	9	6	.....	.....	.....	.....	6	0.72	18.4
Carlsruhe	N. 49 01	E. 8 25	0.42 p.m.	413	126	29.81	757.2	30.29	769.3	44.8	7.1	70.1	1	1	.....	14	2	1	4	5	.....	.....	.....	6	1.51	38.4
Cassel	N. 51 19	E. 9 28	0.46 p.m.	669	204	29.46	748.2	30.17	766.3	42.1	5.6	74.2	.....	3	4	3	14	3	.....	1	.....	.....	.....	7	0.60	15.2
Frankfort on M.	N. 50 08	E. 8 41	0.43 p.m.	338	103	29.87	758.8	30.24	768.1	43.9	6.6	72.2	.....	6	1	5	5	4	6	1	.....	.....	.....	7	0.99	25.2
Friedrichshafen	N. 47 39	E. 9 29	0.46 p.m.	1355	413	28.81	731.7	30.29	769.4	41.4	5.2	77.2	.....	1	8	4	3	4	1	7	.....	.....	.....	6	1.83	46.4
Hamburg	N. 53 33	E. 9 58	0.48 p.m.	85	26	30.09	764.2	30.18	766.5	39.2	4.0	82.5	.....	3	6	3	1	5	9	1	.....	.....	.....	8	1.01	25.6
Kiel	N. 54 19	E. 10 04	0.48 p.m.	13	4	30.13	765 4	30.15	765.8	38.8	3.8	80.4	1	2	4	5	3	6	7	.....	.....	.....	.....	8	0.89	22.5
Leipsic	N. 51 20	E. 12 24	0.58 p.m.	390	119	29.81	757.1	30.24	768.2	39.6	4.2	73.9	.....	3	3	6	5	5	4	2	.....	.....	.....	7	0.63	15.9
Magdeburg	N. 52 09	E. 11 37	0.54 p.m.	177	54	30.01	762.3	30.21	767.3	40.1	4.5	76.7	1	.....	10	1	3	3	8	2	.....	.....	.....	7	0.62	15.7
Memel	N. 55 43	E. 21 07	1.32 p.m.	39	12	30.22	767.5	30.26	768.7	30.7	— 0.7	80.4	1	2	3	5	1	11	4	1	.....	.....	.....	5	0.25	6.3
Munich	N. 48 09	E. 11 34	0.54 p.m.	1732	528	28.40	721.4	30.28	769.1	38.1	3.4	78.4	2	10	3	4	.....	2	3	2	2	.....	.....	8	1.17	29.8
Neufahrwasser	N. 54 24	E. 18 40	1.25 p.m.	16	5	30.24	768.0	30.25	768.4	35.1	1.7	78.5	1	3	4	4	2	7	5	2	.....	.....	.....	6	0.30	7.6
Neustadt	N. 49 21	E. 8 08	0.41 p.m.	479	146	29.70	754.3	30.23	767.8	43.9	6.6	75.8	1	1	10	1	2	3	.....	3	7	.....	.....	7	1.36	34.6
Stuttgart	N. 48 47	E. 9 11	0.45 p.m.	833	254	29.28	743.8	30.21	767.2	43.9	6.6	78.7	3	2	9	.....	3	.....	8	3	.....	.....	.....	6	1.08	27.4
Wustrow	N. 54 21	E. 12 24	0.58 p.m.	23	7	30.18	766.5	30.21	767.2	36.1	2.3	85.3	1	.....	3	3	2	9	8	2	.....	.....	.....	8	0.17	4.2
GREEK.																										
Athens	N. 37 58	E. 23 44	1.43 p.m.	361	110	29.76	755.9	30.15	765.7	50.5	10.3	.....	14	1	3	1	2	1	1	5	.....	.....	.....	7	2.06	52.3
INDIAN.																										
Kurachee	N. 24 47	E. 67 04	4.36 p.m.	49	15	29.95	760.7	30.00	762.0	75.2	24.0	51	1	2	8	11	.....	1	1	4	.....	.....	.....	4	0	0
Deesa	N. 24 16	E. 72 14	4.57 p.m.	466	142	29.46	748.2	29.93	760.2	81.2	27.3	16	7	8	5	5	1	.....	...	2	.....	.....	.....	2	0	0
Bombay	N. 18 54	E. 72 49	5.00 p.m.	37	11	29.86	758.5	29.90	759.5	79.3	26.3	64	7	20	1	.....	.....	.....	...	...	.....	.....	.....	1	0	0
Poona	N. 18 28	E. 74 10	5.05 p.m.	1849	564	28.01	711.4	29.83	757.8	88.2	31.2	19	.....	5	12	5	.....	2	3	1	.....	.....	.....	3	0	0
Belgaum	N. 15 52	E. 74 42	5.07 p.m.	2550	777	27.34	694.3	29.84	757.9	83.4	28.6	29	.....	.....	6	6	.....	7	6	3	.....	.....	.....	2	0	0
Lahore	N. 31 34	E. 74 20	5.05 p.m.	732	223	29.22	742.3	30.00	761.9	64.4	18.0	39	3	3	9	.....	.....	.....	2	.....	11	.....	.....	3	0.33	8.4
Roorkee	N. 29 52	E. 77 56	5.20 p.m.	887	270	29.03	737.3	29.96	760.9	66.2	19.0	40	.....	2	18	.....	1	.....	.....	7	.....	.....	.....	3	0.02	0.5
Agra	N. 27 10	E. 78 05	5.20 p.m.	555	169	29.39	746.6	29.97	761.3	71.8	22.1	31	.....	8	11	2	2	1	2	2	.....	.....	.....	3	c	0
Nagpur	N. 21 09	E. 79 11	5.24 p.m.	1025	312	28.84	732.4	29.87	758.7	86.1	30.1	23	1	1	4	5	3	.....	1	2	11	.....	.....	3	0	0
Jubulpore	N. 23 09	E. 79 59	5.28 p.m.	1341	409	28 58	725.8	29.94	760.5	77.0	25.0	26	6	4	1	.....	.....	.....	1	11	5	.....	.....	3	0	0
Lucknow	N. 26 50	E. 81 00	5.32 p.m.	369	113	29.59	751.5	29.98	761.4	65.8	18.8	46	1	5	6	2	.....	.....	.....	1	13	.....	.....	2	0	0
Alahabad	N. 25 26	E. 81 52	5.35 p.m.	307	94	29.64	752.8	29.96	761.0	68.1	20.1	50	1	5	.....	1	.....	.....	.....	2	19	.....	.....	3	0.02	0.5
Patna	N. 25 37	E. 85 08	5.49 p.m.	183	56	29.76	755.8	29.95	760.6	68.8	20.4	47	2	8	13	2	.....	.....	.....	1	2	.....	.....	3	0.17	4.3
Hazaribagh	N. 24 00	E. 85 24	5.50 p.m.	2007	612	27.90	708.6	29.96	761.0	66.0	18.9	37	7	13	5	.....	.....	.....	.....	1	2	.....	.....	3	0.14	3.6
Cuttack	N. 20 29	E. 85 54	5.52 p.m.	80	24	29.84	757.9	29.92	760.0	80.0	26.7	51	.....	.....	.....	2	6	4	3	6	7	.....	.....	2	0.22	5.6
Calcutta	N. 22 33	E. 88 21	6.01 p.m.	21	6	29.92	759.9	29.94	760.5	73.6	23.1	50	4	7	4	7	.....	1	.....	3	2	.....	.....	2	2.09	53.1
Dhubri	N. 26 07	E. 89 50	6.08 p.m.	115	35	29.80	756.9	29.92	760.0	69.2	20.7	53	1	2	.....	6	.....	.....	.....	1	18	.....	.....	1	0.03	0.8
Chittagong	N. 22 21	E. 91 50	6.15 p.m.	87	26	29.87	758.6	29.96	761.0	70.7	21.5	61	1	2	14	4	.....	1	.....	.....	6	.....	.....	2	0.05	1.3
Sibsagar	N. 26 59	E. 94 40	6.27 p.m.	333	102	29.61	752.1	29.96	761.0	63.9	17.7	78	.....	1	.....	3	...	2	2	20	.....	.....	.....	5	0.71	18.0
Zanzibar	S. 6 10	E. 39 11	2.45 p.m.	23	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jeypore	N. 26 55	E. 75 50	5.05 p.m.	1431	436	28.50	724.0	29.98	761.4	71.4	21.9	34	4	12	1	2	5	1	.....	3	.....	.....	.....	4	0	0
Bellary	N. 15 09	E. 76 57	5.16 p.m.	1455	444	28.39	721.1	.....	.....	88.7	31.5	25	.....	1	2	.....	.....	16	9	...	.....	.....	.....	2	0	0
Trichinopoly	N. 10 50	E. 78 44	5.23 p.m.	275	84	29.65	753.1	.....	.....	86.3	30.2	40	.....	.....	.....	.....	.....	2	16	9	1	.....	.....	2	0	0
ITALIAN.																										
Udine	N. 46 04	E. 13 13	1.01 p.m.	381	116	29.84	757.9	30.26	768.6	46.8	8.2	60	1	.....	2	3	2	9	4	4	3	.....	.....	6	4.97	126.3
Milan	N. 45 28	E. 9 11	0.45 p.m.	482	147	29.73	755.1	30.26	768.6	47.1	8.4	69	1	3	5	5	1	8	2	3	.....	.....	.....	6	3.92	99.5

RESULT OF SIMULTANEOUS OBSERVATIONS FOR FEBRUARY, 1883.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea.		Mean Barometer. Actual.		Mean Barometer. Reduced.		Mean Temperature.		Mean Rel. Humidity	WIND. Directions. N	NW	W	SW	S	SE	E	NE	C	WIND. Total Movement. Miles	Kil.	Average Cloudiness. 0–10	TOTAL PRECIPITATION. Inch.	Mill.
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.															
ITALIAN.—Cont'd.	° ′	° ′																								
Padua	N. 45 24	E. 11 53	0.56 p.m.	102	31	30.14	765.5	30.25	768.4	46.2	7.9	68	7	2	2	1	2	2	2	9	1			6	2.28	57.8
Moncalieri	N. 45 00	E. 7 41	0.39 p.m.	846	258	29.33	744.9	30.26	768.6	44.6	7.6	75	4	2				5	4	13				6	2.13	54.1
Genoa	N. 44 24	E. 8 55	0.44 p.m.	157	48	30.01	762.3	30.21	767.3	50.5	10.3	63	11	1		4		2	1	8	1			6	5.04	128.1
Mondovi	N. 44 23	E. 7 48	0.39 p.m.	1824	556	28.30	718.8	30.29	769.3	42.3	5.7	65		3	20	1		1	2	1				4	2.80	71.2
Pesaro	N. 43 55	E. 12 53	1.00 p.m.	46	14	30.18	766.6	30.23	767.9	47.1	8.4	75	7	5		3	1	4	2	6				6	0.66	16.8
Florence	N. 43 46	E. 11 15	0.53 p.m.	240	73	29.95	760.6	30.21	767.2	51.6	10.9	61	3	3	1	4	2		4	11				7	1.46	37.2
Leghorn	N. 43 33	E. 10 18	0.49 p.m.	79	24	30.06	763.4	30.14	765.6	52.3	11.3	67	2		3	3	3	1	8	8				7	3.24	82.2
Rome	N. 41 54	E. 12 29	0.58 p.m.	164	50	29.99	761.8	30.17	766.4	55.4	13.0	54	9	5	2	2	3	2	4	1				5	2.96	75.2
Lecce	N. 40 22	E. 18 12	1.21 p.m.	236	72	29.91	759.7	30.17	766.3	52.7	11.5	61	7	4		3	4	1	3	6				4	1.57	39.8
Cosenza	N. 39 19	E. 16 17	1.13 p.m.	840	256	29.26	743.3	30.17	766.4	52.7	11.5	75	3	10	6	4	2	2	1					6	2.42	61.6
Cagliari	N. 39 30	E. 9 00	0.45 p.m.	180	55	29.95	760.6	30.14	765.6	57.2	14.0	67		15				6	1	1	5			4	2.04	51.7
Palermo	N. 38 07	E. 13 21	1.02 p.m.	236	72	29.93	760.2	30.18	766.6	57.2	14.0	55	2	6	3					16	1			4	1.59	40.5
Syracuse	N. 37 03	E. 15 15	1.09 p.m.	72	22	30.10	764.4	30.14	765.5	56.3	13.5	69	2	1	2	3	4	2	2	12				7	2.35	59.6
Sub-Series.																										
Naples	N. 40 52	E. 14 15	1.05 p.m.	489	149	29.65	753.1	30.19	766.8	54.1	12.3	62.4	4	2	2	6	1	2	2	9				6	1.96	49.8
Stelvio	N. 46 32	E. 10 25	0.50 p.m.	8343	2543	22.19	563.3			22.1	—5.5	74.2			9	3		5	4	7				5	2.23	56.5
Valdobbia	N. 45 47	E. 7 51	0.40 p.m.	8360	2548	22.20	563.8			27.1	—2.7	57.0	2	1	0	1		3	11	4				4	5.51	140.0
JAPANESE.																										
Akita	N. 39 42	E.140 07	9.28 p.m.	32	10	30.18	766.5	30.21	767.3	26.4	—3.1	83.0	2	5				1			20	5582	8983	6	2.57	65.2
Awomori	N. 40 51	E.140 45	9.31 p.m.	32	10	30.16	766.1	30.20	767.1	22.8	—5.1	74.4	1	3	9	5	2	5	2		1	5582	8983	6	1.86	47.2
Hakodate	N. 41 47	E.140 44	9.31 p.m.	10	3	30.19	766.7	30.20	767.0	23.5	—4.7	91.0	14	3	5			3	2	1	6608	10760		5	0.57	14.5
Hamamatsu	N. 34 43	E.137 43	9.19 p.m.	26	8	30.10	764.5	30.13	765.2	40.5	4.7	72	1	7	1				3		16			4	3.76	95.4
Kagoshima	N. 31 35	E.130 33	8.50 p.m.	14	4	30.18	766.7	30.20	767.0	45.9	7.7	76.9	14	4				1	1	4	4			4	4.55	115.6
Kioto	N. 35 01	E.135 46	9.11 p.m.	162	49	30.02	762.4	30.20	767.1	36.2	2.3	82.7	12	9	5				2			2915	4691	6	3.54	89.8
Kochi	N. 33 33	E.133 34	9.02 p.m.	20	6	30.15	765.7	30.17	766.3	45.5	7.5	69.0	5	7	4		3		4	5		5490	8836	5	3.62	91.9
Miasaka	N. 31 56	E.131 26	8.54 p.m.	26	8	30.10	766.2	30.19	766.9	46.2	7.9	87.0	2		4		1							6	3.26	82.7
Nagasaki	N. 32 44	E.129 52	8.47 p.m.	189	58	30.00	762.0	30.21	767.4	43.4	6.3	79.1	8	4		1		1		5	9	2479	3889	6	3.62	91.9
Niigata	N. 37 55	E.139 03	9.24 p.m.	32	10	30.17	766.3	30.21	767.3	33.8	1.0	84.1	8		3	4	5	2	1	5		4069	6549	8	5.46	138.3
Nobiru	N. 38 23	E.141 12	9.32 p.m.	15	5	30.16	766.0	30.17	766.4	30.6	—0.8	84.3	16	3	3			1		5		5528	8891	4	2.04	51.7
Numazu	N. 35 06	E.138 51	9.23 p.m.	32	10	30.10	764.5	30.14	765.5	39.8	4.3	77.8	4				1	1	13	1	8			8	6.10	154.9
Osaka	N. 34 42	E.135 30	9.10 p.m.	13	4	30.19	766.9	30.21	767.3	37.8	3.2	81.7	11	3	1				2	11		5795	9326	6	4.21	107.0
Sakai	N. 35 01	E.133 31	9.01 p.m.	10	3	30.22	767.5	30.23	767.8	39.5	4.2	79.1	2	1	6		2		13	3	1			8	7.16	182.0
Supporo	N. 43 04	E.141 23	9.33 p.m.	60	18					19.8	—6.8	85.5	2	5	1			3	1		16	3103	4994	7	0.39	9.9
Tokei	N. 35 41	E.139 46	9.27 p.m.	69	21	30.09	764.3	30.17	766.2	35.1	1.7	83.9	13	1	2			1	5	3	3	4918	7914	5	4.58	116.3
Wakayama	N. 34 14	E.135 09	9.09 p.m.	48	15	30.14	765.5	30.19	766.9	39.9	4.4	76.0	9	4						13	2	4423	7118	7	4.76	120.9
MAURITIUS.																										
Mauritius	S. 20 06	E. 57 33	3.58 p.m.	181	55	29.68	753.9	29.87	758.7	81.0	27.2	71.2	1	2	3	1		2	13	6				7	4.38	111.2
MEXICAN.																										
Guanajuato	N. 21 01	W.100 48	5.24 a.m.	6759	2060	23.70	602.1	29.94	760.1	53.4	11.9	84		4		5	2	2	1	9	5			3	1.82	46.3
Leon	N. 21 07	W.101 35	5.22 a.m.	5901	1799	24.34	618.2	30.11	764.4	50.3	10.3	87	3	10	2	4		4	1	4				5	1.16	29.4
Mazatlan	N. 23 11	W.106 17	5.03 a.m.	249	76	29.74	755.2	29.99	761.7	60.6	15.9	75	1	18				1	3	5				2	0	0
Mexico	N. 19 26	W. 99 00	5.32 a.m.	7490	2283	23.13	587.4	30.28	769.1	48.7	9.3	81			5						23			3	1.73	43.9
Morelia	N. 19 42	W.101 06	5.22 a.m.	6247	1940	24.31	617.5	30.24	768.1	51.4	10.8	68						6	14	7	1			4	2.05	52.0
Pabellon, *a*	N. 22 04	W.102 04	5.20 a.m.	6312	1924	23.97	608.9	30.05	763.3	51.6	10.8	68	3		1			1		1	21			3	0.00	2.2
Puebla	N. 19 02	W. 98 03	5.36 a.m.	7113	2168	23.41	594.6	30.28	769.1	46.3	8.0	73		2						3	23			3	0.29	7.4
Zacatecas	N. 22 44	W.102 20	5.18 a.m.	8100	2469	22.53	572.3	30.27	769.0	48.0	8.9	68	1	1	1	10		5	6	4				5	0.64	16.2
NETHERLANDS.																										
Flushing	N. 51 24	E. 3 35	0.22 p.m.	0	0	30.15	765.8	30.15	765.8	44.8	7.1			2	4	7	9	4	2						1.52	38.7
Groningen	N. 53 12	E. 6 34	0.34 p.m.	?	?	30.08	763.9	30.13	765.3	41.7	5.4		2	5	1	7	6	5	2						1.55	39.4
Helder	N. 52 58	E. 4 45	0.27 p.m.	0	0																				1.57	39.9
Hellevoetsluis	N. 51 49	E. 4 08	0.25 p.m.	0	0	30.14	765.5	30.14	765.5	44.6	7.0	80.3		2	4	8	6	4	4						1.57	39.8
Utrecht	N. 52 05	E. 5 07	0.29 p.m.	43	13	30.11	764.9	30.16	766.1	44.6	7.0	78.9		3	5	7	5	5	3					6	1.29	32.7
Sub-Series.																										
Batavia	S. 6 11	E.106 48	7 15 p. m.	?	?	29.85	758.3			78.1	25.6	87.3	7	10	6	1				4				6	17.56	446.0
NORWEGIAN.																										
Bergen	N. 60 24	E. 5 20	0.29 p.m.	56	17	29.88	758.9	29.94	760.5	39.0	3.9	69.0		4	2	3	12	5	1		1			7	6.03	153.2
Brono	N. 65 28	E. 12 14	0.57 p.m.	34	10	29.78	756.4	29.82	757.4	35.6	2.0	61.5		2	2	5	7	5		1	6			5	2.64	67.0
Christiania	N. 59 55	E. 10 45	0.51 p.m.	134	41	29.93	760.3	30.09	764.2	31.1	—0.5	78.8	2	1	4	4	3	4	7	3				7	1.42	36.1
Gjæsvær	N. 71 07	E. 25 22	1.49 p.m.	23	7	29.64	752.9	29.67	753.5	33.4	0.8		3	1	3	6	4	6	1	1	3			7		
Lodingen	N. 68 24	E. 16 01	1.12 p.m.	43	13	29.71	754.7	29.76	755.9	32.5	0.3	72.2		3		5	2	5		3	10			6	2.23	56.7
PORTUGUESE.																										
Angra	N. 38 39	W. 27 14	10.19 a.m.	144	44	30.07	763.8	30.23	767.9	57.0	13.9	79.9	2	6	7	1	2	5	4	1				5	2.50	63.6
Campo Major	N. 39 02	W. 6 59	11.40 a.m.	945	288	29.24	742.8	30.26	768.6	55.6	13.1	05.9			2	3	7	2	6	7	1			5	1.05	20.6
Funchal	N. 32 38	W. 16 55	11.00 a.m.	82	25	30.20	767.1	30.29	769.4	63.6	17.6	61.2	2				10	1	8	5	1			5	2.88	73.2
Lisbon	N. 38 42	W. 9 08	11.31 a.m.	335	102	29.95	760.7	30.30	769.7	54.3	12.6	66.1	5	2	1	4	5			9	2			5	2.21	56.1
Ponta Delgada	N. 37 45	W. 25 41	10.25 a.m.	66	20	30.21	767.2	30.28	769.0	59.4	15.2	68.3	3	8	2	4	2	1	5	2	1			4	3.78	96.1
St. Paulde Loanda	S. 8 49	E. 13 07	1.00 p.m.	193	59	29.66	753.4	29.86	758.4	82.9	28.3	87.0	1	3	20	4								7	1.24	31.6
Serra da Estrella	N. 40 25	W. 7 35	11.37 a.m.	4728	1441	25.43	645.8	30.28	769.2	39.2	4.0	73.8		3	4	5	2	8	1	5				6	11.37	288.7
RUSSIAN																										
Akmolinski	N. 51 12	E. 71 23	4.54 p.m.	843?	306?	29.10	739.2	30.32	770.2	—3.5	—19.7	83.8			4	13	3	5		1	2			5	0.11	2.8
Archangel	N. 64 33	E. 40 32	2.50 p.m.	16	5	30.05	763.2	30.07	763.7	19.9	—5.7	86.9	1	2	6	10	6	2			1			8	0.24	6.2
Ashurada	N. 36 54	E. 53 55	3.44 p.m.	79	24	30.36	771.1	30.26	768.7	43.3	6.3	75.9	9	6	5	3			2	2	1			6	1.19	30.3
Astrakhan	N. 46 21	E. 48 02	3.20 p.m.	68	21	30.48	774.2	30.40	772.1	25.0	—3.9	63.2	4	2	1			9	8	3	1			4	0.07	1.7
Baku	N. 40 21	E. 49 51	3.28 p.m.	39	12	30.38	771.6	30.33	770.4	38.5	3.6	76.7	10			1	6	1		4	6			4	0.17	4.4
Barnaul	N. 53 20	E. 83 47	5.43 p.m.	459?	140?	29.82	757.4	30.38	771.6	3.0	—16.1	81.0	1									22		7	2.35	59.6
Bielosersk	N. 60 02	E. 37 47	2.39 p.m.	430?	131?	29.76	756.0	30.26	768.6	20.7	—6.3	78.5	1	2	5	2	5	3		1	9			6	0.42	10.6
Dorpat	N. 58 23	E. 26 43	1.55 p.m.	223	68	29.99	761.8	30.25	768.4	24.1	—4.4	88.5		2	4	5	8	4	2	2	1			5	0.98	24.9
Ekaterinburg	N. 56 49	E. 60 38	4.10 p.m.	894?	272?	29.22	742.1	30.26	768.7	13.8	—10.1	76.8	4	4	14	6								7	0.15	3.7
Elissavetgrad	N. 48 31	E. 32 17	2.17 p.m.	417?	127?	29.89	759.1	30.37	771.3	22.5	—5.3	81.2	8	1	2	1	1	4	2	7	2			7	0.30	7.7
Irkutsk	N. 52 16	E. 104 16	7.05 p.m.	1536	468	28.61	726.7	30.44	773.2	3.0	—16.1	79.1	1	1					6	2	18			5	0.26	6.7
Kasalinsk	N. 45 46	E. 62 07	4.16 p.m.	147	45	29.84	757.8	30.01	762.3	11.5*a*	—11.4*a*	69.7	6	3	1	4			5	2	7			4		
Kasan	N. 55 47	E. 49 08	3.24 p.m.	249	76	30.08	764.0	30.36	771.2	16.0	—8.9	75.8	3	2	5	3	7	6		1	1			8	0.19	4.8
Kem	N. 64 57	E. 34 39	2.26 p.m.	43	13	30.01	762.2	30.06	763.5	20.5	—6.4	81.6		2	9	12	4				1			6	0.12	3.1
Kertch	N. 45 21	E. 36 29	2.34 p.m.	18?	6?	30.19	766.9	30.21	767.4	28.8	—1.8	86.8		4						5	7	12		8	0.65	16.6
Kieff	N. 50 27	E. 30 30	2.10 p.m.	600	183	29.65	753.2	30.34	770.6	21.7	—5.7	83.2	6	2		3	2	5	3	7				7	0.79	20.1
Koslov	N. 52 53	E. 40 31	2.50 p.m.	466?	142?	29.84	757.9	30.42	772.6	15.4	—9.2	88.9	3	2	1	6	9	2	1	2	2			8	0.43	10.9
Libau	N. 56 31	E. 21 01	1.32 p.m.	20	6	30.19	766.9	30.22	767.5	31.3	—0.4	74.7	1	2	2	5	4	9	5					4	0.35	9.0
Lugan	N. 48 35	E. 39 20	2.45 p.m.	188?	57?	30.12	765.1	30.32	770.1	19.2	—7.1	73.3	2	3		3	1	3	9	7				8	0.25	6.3
Moscow	N. 55 46	E. 37 40	2.39 p.m.	448	136	29.82	757.5	30.35	770.8	19.2	—7.1	78.1		4	5	2	7	1	1		8			6	0.69	17.0
Nikolaiev	N. 46 58	E. 31 58	2.16 p.m.	62	19	30.25	768.3	30.32	770.2	26.8	—2.9	79.8	4			3	3		4	8	6			6	0.28	7.1
Nikolaievsk	N. 53 08	E.140 45	9.31 p.m.	59	18	30.07	763.8	30.16	766.0	—7.1	—21.7	64.8				7					20			3	0.30	7.6
Pekin	N. 39 57	E.116 28	7.54 p.m.	123?	38?	30.23	767.9	30.38	771.7	29.3	—1.5	62.5	1	3		6		3			15			4	0.58	14.8
Petro-Alexandrovsk	N. 41 48	E. 61 05	4.12 p.m.	328	100	30.03	762.8	30.41	772.4	25.2	—3.8	58.1	2	2	4	4			2	9	5			5	inap.	inap.
Petrozavodsk	N. 61 47	E. 34 23	2.26 p.m.	180?	55?	29.96	761.0	30.17	766.3	20.5	—6.4	78.2	3	8	3	5	2	1			6			5	0.80	20.2
Pinsk	N. 52 07	E. 26 06	1.52 p.m.	459?	140?	29.80	756.8	30.32	770.2	29.5	—1.4	71.8	1	4	3	2	3	7	6	2				6	0.69	17.5
Poti	N. 42 09	E. 41 37	2.54 p.m.	466?	142?	30.11	764.7	30.13	765.2	49.1	9.5	75.2		1	5	5	4	1	7		5			6	1.37	34.9
St. Petersburg	N. 59 56	E. 30 16	2.09 p.m.	20	6	30.21	767.4	30.23	767.8	20.7	—6.7	81.1	1	5	3	2	7	7		2	1			5	0.54	13.6
Samarkand	N. 39 39	E. 66 57	4.36 p.m.	2379?	725?	27.72	704.0	30.34	770.5	27.7	—2.4	63.1	2		2	1	1	3	1	2	16			4		
Semipalatinsk	N. 50 24	E. 80 13	5.29 p.m.	607?	185?	29.74	755.3	30.46	773.8	1.6	—16.9	80.3		1	1	5	6	2	10		3			6	0.08	2.0
Sevastopol	N. 44 37	E. 33 31	2.22 p.m.	423?	42?	29.96	761.0	30.20	767.0	36.1	2.3	70.4	9	6	2	2	4			7				8	0.75	19.0
Staroi Bykhov	N. 53 31	E. 30 16	2.09 p.m.	423?	129?	29.89	759.1	30.38	771.6	23.4	—4.8	69.9	1	3			3	13	2	3	3			6	1.02	25.8
Tashkend	N. 41 20	E. 69 18	4.45 p.m.	1607?	490?	28.62	726.9	30.42	772.7	23.7	—4.6	60.0	4	1			1	2		4	10			4	0.29	7.4
Tiflis	N. 41 43	E. 44 47	3.07 p.m.	1343	409?	28.81	731.8	30.29	769.3	38.3	3.5	62.0	1	1			5	14	4		3			6	0.68	17.4
Tomsk	N. 56 30	E. 84 58	5.48 p.m.	256?	78?																					
Vernoe	N. 43 16	E. 76 53	5.16 p.m.	2401?	732?	27.63	701.9	30.37	771.4	12.6	—10.8	75.0	1	1	8	1			1	6	10			4		
Viatka	N. 58 36	E. 41 94	3.27 p.m.	581?	177	29.58	751.4	30.26	768.7	16.5	—8.6		3	1	9	3	8	1		1	2			9	0.18	4.5

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea.		Result of Simultaneous Observations for February, 1883.																	Average Cloudiness.	Total Precipitation	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.												
						Actual.		Reduced.					Directions.									Total Movement.				
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0-10	Inch.	Mill.
Russian—Cont'd	° ′	° ′																							
Vlad-vostock	N. 43 09	E. 132 00	8.56 p.m.	59?	18?	30.26	768.6	30.33	770.3	7.3	-13.7	61.9?	12	2	.....	.....	.....	2	.....	3	9	.....	.....	3	0.01	0.3
Warsaw	N. 52 13	E. 21 02	1.32 p.m.	392	119	29.83	757.7	30.28	769.0	32.2	0.1	72.1	6	2	5	3	7	2	1	2	.....	.....	.....	6	0.66	16.7
Wilna	N. 54 41	E. 25 18	1.49 p.m.	388	118	29.87	758.7	30.32	770.0	27.7	—2.4	72.8	1	3	2	2	7	9	2	1	1	.....	.....	5	0.27	6.8
Yeniseisk	N. 58 27	E. 92 06	6.16 p.m.	262?	80?	30.02	762.4	30.34	770.6	—5.8	-21.0	80.7	.....	1	10	1	3	1	3	1	8	.....	.....	4	1.15	29.2
Scottish.																									
Monach Light H.	N. 57 31	W. 7 42	11.37 a.m.	150	46	.....	.....	29.68	753.9	44.6	7.0	91.7	.....	1	6	8	9	2	.....	1	1	.....	.....	9	5.90	149.9
Norht Unst	N. 60 51	W. 0 53	0.04 p.m.	230	70	.....	.....	29.77	756.1	.....	.....	.....	1	5	2	3	13	3	.....	1	.....	.....	.....	8	.....	.....
Spanish.																									
Barcelona	N. 41 23	E. 2 11	0.16 p.m.	98	30	30.13	765.3	30.24	768.0	56.3	13.5	64	.....	3	4	12	2	3	3	1	.....	1734	2791	2	1.11	28.3
Bilbao	N. 43 15	W. 2 59	11.56 a.m.	52	16	30.24	768.1	30.30	769.6	57.0	13.9	64	1	5	3	2	2	12	.....	2	1	2259	3035	4	3.27	83.1
Burgos	N. 42 20	W. 3 46	11.53 a.m.	2821	860	27.27	692.7	30.32	770.2	45.3	7.4	64	6	.....	1	7	5	1	.....	8	.....	5830	9382	4	2.29	58.1
Madrid	N. 40 25	W. 3 42	11.53 a.m.	2152	656	28.03	712.0	30.32	770.0	50.2	10.1	63.2	.....	1	1	7	5	1	6	6	1	6229	10024	5	0.94	23.8
Murcia	N. 37 59	W. 1 10	0.03 p.m.	141	43	30.13	765.2	30.28	769.1	53.8	12.1	65	.....	4	1	13	1	1	5	3	2	1326	2134	3	0.18	4.7
Oviedo	N. 43 23	W. 5 49	11.45 a.m.	800	244	29.35	745.6	30.22	767.7	47.8	8.8	71	11	.....	1	.....	7	2	6	1	.....	.....	.....	7	1.76	44.6
Santiago	N. 42 53	W. 8 28	11.34 a.m.	863	263	29.26	743.2	30.17	766.3	53.4	11.9	77.9	3	.....	4	3	7	.....	2	4	5	8378	13483	5	10.40	264.2
Sub-Series.																									
Manilla	N. 14 35	E. 120 56	8.12 p.m.	54	16	29.93	760.1	29.98	761.6	77.7	25.4	72.1	3	.....	.....	.....	.....	1	16	8	.....	2826	5235	2	0.52	13.2
San Fernando	N. 36 28	W. 6 13	11.43 a.m.	95	29	30.20	767.0	30.30	769.5	59.9	15.2	63	2	3	3	.....	3	4	10	1	2	.....	.....	4	2.43	61.7
San Juan de Porto Rico	N. 18 30	W. 66 10	7.44 a.m.	82	25	30.04	763.0	30.13	765.3	75.0	23.9	85	.....	.....	1	.....	.....	13	6	6	2	.....	.....	4	4.81	122.2
Swedish.																									
Haparanda	N. 65 47	E. 24 03	1.44 p.m.	29	9	29.98	761.6	30.02	762.6	18.9	—7.3	97	3	1	.....	11	11	.....	.....	1	1	.....	.....	7	0.48	12.2
Umea	N. 63 50	E. 20 17	1.29 p.m.	39	12	30.00	762.1	30.06	763.4	26.4	—3.1	89	3	3	1	16	1	.....	.....	1	3	.....	.....	7	0.36	9.2
Hernosand	N. 62 32	E. 17 57	1.20 p.m.	46	14	29.99	761.7	30.03	762.8	28.4	—2.0	83	1	3	1	4	9	.....	.....	1	9	.....	.....	7	0.35	8.8
Stockholm	N. 59 20	E. 18 04	1.20 p.m.	144	44	29.95	760.8	30.13	765.3	32.7	0.4	78	2	1	5	5	8	3	3	1	.....	.....	.....	8	0.34	8.6
Wisby	N. 57 39	E. 18 19	1.21 p.m.	52	16	29.96	761.0	30.14	765.5	34.3	1.3	84	1	3	3	5	6	6	3	1	.....	.....	.....	5	0.59	15.0
Sub-Series.																									
Upsala	N. 59 51	E. 17 37	1.19 p.m.	79	24	30.02	762.6	30.11	764.8	29.5	—1.4	88.4	1	5	3	3	7	2	4	3	.....	.....	.....	8	0.52	13.3
Swiss.																									
Geneva	N. 46 12	E. 6 08	0.33 p.m.	1338	408	28.82	732.1	30.28	769.1	43.9	6.6	67.7	18	2	1	.....	4	1	1	1	.....	.....	.....	6	1.31	33.2
Turkish.																									
Constantinople	N. 41 00	E. 28 59	2.04 p.m.	230	70	.....	.....	30.22	767.5	38.1	3.4	78	17	3	.....	2	.....	2	2	2	.....	.....	.....	9	1.87	47.5
Valona	N. 40 27	E. 19 27	1.26 p.m.	105	32	.....	.....	30.19	766.8	53.6	12.0	.....	6	11	3	3	.....	1	.....	4	.....	.....	.....	4	2.17	55.0
Sub-Series.																									
Beirut	N. 33 54	E. 35 28	2.30 p.m.	111	34	.....	.....	30.01	762.2	59.7	15.4	66.5	1	2	6	13	2	1	.....	3	.....	.....	.....	7	9.25	234.9
Samakov	N. 42 12	E. 23 45	1.42 p.m.	?	?	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
United States.																									
Albany	N. 42 39	W. 73 45	7.13 a.m.	75	23	30.15	765.8	30.24	768.1	25.3	—3.7	72.6	1	7	7	4	8	.....	.....	1	.....	4995	8038	7	3.00	76.2
Alpena	N. 45 05	W. 83 30	6.34 a.m.	609	185	29.48	748.8	30.19	766.8	11.4	-11.4	76.4	.....	1	18	2	1	2	4	.....	.....	7322	11783	6	2.02	51.3
Apache, Fort	N. 33 48	W. 109 57	4.48 a.m.	5050	1539	25.04	636.0	30.14	765.5	28.9	—1.7	75.6	1	.....	.....	5	2	2	4	12	2	5073	8164	5	2.46	62.5
Assinnaboine, Ft.	N. 48 32	W. 109 42	4.49 a.m.	2710	826	27.29	693.2	30.33	770.4	4.8	-15.1	59.8	1	.....	1	20	1	.....	.....	4	1	9049	14563	4	0.72	18.3
Atlanta	N. 33 45	W. 84 23	6.31 a.m.	1131	345	29.11	739.4	30.33	770.4	45.1	7.3	84.6	.....	10	2	1	2	3	4	5	1	6036	9714	5	3.22	81.8
Atlantic City	N. 39 22	W. 74 25	7.10 a.m.	13	4	30.26	768.6	30.27	768.8	32.4	0.2	74.8	8	5	3	3	4	.....	3	2	.....	6354	10226	6	5.18	131.6
Augusta	N. 33 28	W. 81 54	6.40 a.m.	183	56	30.14	765.5	30.34	770.6	51.3	10.7	82.1	.....	4	1	.....	3	.....	2	6	12	2066	3325	7	1.49	37.8
Baltimore	N. 39 18	W. 76 37	7.02 a.m.	45	14	30.27	768.8	30.32	770.1	36.1	2.3	72.7	5	7	3	5	.....	1	3	2	2	4054	6524	6	4.69	119.1
Barnegat	N. 39 46	W. 74 06	7.12 a.m.	20	6	30.25	768.3	30.27	768.8	32.4	0.2	79.9	7	6	3	4	1	.....	3	4	.....	10472	16853	7	5.98	151.9
Behring Id	N. 55 12	E. 165 55	11.12 p.m.	20	6	30.08	764.0	30.10	764.5	27.8	—2.3	.....	2	1	4	4	5	9	3	.....	.....	10145	16326	7	2.98	75.7
Bennett, Fort	N. 44 43	W. 100 39	5.26 a.m.	1510	457	28.63	727.2	30.36	771.1	8.6	-13.0	82.6	1	3	1	2	.....	4	.....	2	15	3992	6424	4	0.40	10.2
Benton, Fort	N. 47 50	W. 110 40	4.45 a.m.	2700	823	27.34	694.4	30.34	770.6	9.7	-12.4	64.2	.....	.....	1	10	.....	.....	.....	3	14	4640	7467	3	0.45	11.4
Billings	N. 45 49	W 108 30	4.54 a.m.	3115?	949?	26.89	683.0	.....	.....	7.7	-13.5	68.0	1	1	13	7	1	.....	1	3	1	6891	11090	4	0.49	12.4
Bismarck	N. 46 47	W. 100 38	5.26 a.m.	1694	516	28.33	719.6	30.31	769.9	2.6	-16.3	85.3	5	9	5	1	1	1	3	1	2	5723	9210	4	0.66	16.7
Block Id	N. 41 10	W. 71 36	7.22 a.m.	27	8	30.21	767.3	30.24	768.1	30.5	—0.8	73.4	8	7	4	2	.....	3	1	3	.....	10965	17646	5	4.09	103.9
Boise City	N. 43 37	W. 116 08	4.24 a.m.	2750	838	27.37	695.2	30.33	770.4	13.2	-10.4	89.1	7	7	3	.....	.....	2	1	2	6	2036	3277.	3	1.20	30.5
Boston	N. 42 21	W. 71 04	7.24 a.m.	142	43	30.05	763.3	30.21	767.3	26.3	—3.2	67.3	2	8	8	5	1	3	1	.....	.....	6754	10869	6	2.74	69.6
Brownsville	N. 25 53	W. 97 26	5.38 a.m.	43	13	30.10	764.5	30.14	765.5	54.7	12.6	89.1	13	.....	.....	.....	12	1	.....	1	1	8071	12902	7	1.01	25.7
Buffalo	N. 42 53	W. 78 53	6.52 a.m.	696	212	29.41	747.0	30.21	767.3	21.0	—6.1	85.9	.....	2	2	15	1	1	1	6	.....	10125	16294	7	4.04	102.6
Buford, Fort *a*	N. 48 00	W. 103 56	5.12 a.m.	1900	579	28.17	715.5	30.35	770.9	—2.1	-18.9	82.9	1	3	10	.....	1	1	1	1	9	4185	6735	2	0.36	9.1
Burlington	N. 44 29	W. 73 13	7.15 a.m.	268	82	29.86	758.4	30.17	766.3	18.8	—7.3	79.2	4	1	2	1	14	.....	2	1	3	6622	10657	7	1.07	27.2
Cairo	N. 37 00	W. 89 10	6.11 a.m.	377	115	29.92	760.0	30.34	770.6	35.1	1.7	78.5	6	1	.....	5	4	.....	4	7	1	6788	10924	6	8.52	216.4
Cape Henry	N. 36 56	W. 76 00	7.04 a.m.	16	5	30.30	769.6	30.32	770.1	42.9	6.1	82.2	4	6	3	5	2	1	.....	6	1	8975	14444	6	3.72	94.5
Cape May *a*	N. 38 56	W. 74 58	7.08 a.m.	27	8	30.26	768.6	30.29	769.4	37.1	2.8	73.2	4	4	1	3	5	2	3	4	1	10681	17189	4	5.67	144.0
Cape Mendocino *f*	N. 40 26	W. 124 24	3.50 a.m.	637	194	29.40	746.7	30.10	764.5	41.0	5.0	78.9	1	7	.....	.....	.....	6	.....	4	4	12129	19519	3	2.86	72.6
Cedar Keys	N. 29 08	W. 83 02	6.36 a.m.	22	7	30.24	768.1	30.26	768.6	63.4	17.4	81.9	4	.....	.....	.....	1	1	8	6	8	5258	8462	4	0.04	1.0
Champaign	N. 40 08	W. 88 14	6.15 a.m.	767	234	29.43	747.5	30.30	769.6	21.2	—6.0	69.6	2	10	.....	4	3	3	3	3	.....	7397	11904	6	3.07	128.8
Charleston	N. 32 47	W. 79 56	6.48 a.m.	52	16	30.24	768.1	30.30	769.6	52.9	11.6	87.0	1	4	3	7	.....	.....	2	9	2	5342	8595	4	0.92	23.4
Charlotte	N. 35 13	W. 80 51	6.44 a.m.	808	246	29.44	747.8	30.33	770.4	44.1	6.7	81.4	2	5	2	7	1	1	4	6	.....	3874	6234	5	5.47	138.9
Chattanooga	N. 35 04	W. 85 15	6.27 a.m.	783	239	29.47	748.5	30.33	770.4	45.7	7.6	76.5	5	4	2	3	6	1	2	5	.....	5179	8335	8	3.34	84.8
Cheyenne	N. 41 08	W. 104 48	5.09 a.m.	6089	1856	23.98	609.1	30.25	768.3	12.0	-11.1	56.5*b*	5	8	10	1	.....	.....	2	.....	2	4940	7950	2	0.25	6.3
Chicago	N. 41 52	W. 87 38	6.18 a.m.	661	201	29.53	750.0	30.28	769.1	18.4	—7.6	73.2	.....	1	12	9	.....	.....	3	2	1	5854	9422	4	4.74	120.4
Chincoteague	N. 37 55	W. 75 23	7.06 a.m.	18	5	30.27	768.8	30.29	769.4	37.6	3.1	76.4	5	3	1	1	5	.....	4	9	.....	7803	12558	5	2.53	64.3
Cincinnati	N. 39 06	W. 84 30	9.30 a.m.	620	189	29.63	752.6	30.32	770.1	34.3	1.3	83.6	5	3	9	3	3	2	.....	3	.....	4464	7184	8	8.22	208.8
Cleveland	N. 41 30	W. 81 42	6.41 a.m.	690	210	29.48	748.8	30.27	768.8	24.4	—4.2	83.8	..	3	11	4	4	4	1	1	.....	7027	11309	8	6.77	172.0
Coleman City *c*	N. 31 53	W. 99 18	5.31 a.m.	1709	521	28.34	719.8	30.22	767.6	36.2	2.3	85.0	9	3	1	2	4	2	1	3	.....	6851	11025	8	1.75	44.4
Columbus	N. 39 58	W. 83 00	6.36 a.m.	805	245	29.38	746.2	30.28	769.1	30.4	—0.9	79.2	1	5	7	3	5	2	3	2	.....	6418	10329	7	6.18	157.0
Concho, Fort	N. 31 25	W. 100 24	5.26 a.m.	1900	579	28.25	717.5	30.27	768.8	37.2	2.9	78.2	8	1	.....	1	3	1	.....	4	10	5797	9329	6	1.20	30.5
Davenport	N. 41 30	W. 90 38	6.06 a.m.	615	187	29.59	751.6	30.29	769.4	18.7	—7.4	66.4	.....	8	4	5	.....	1	4	5	1	5806	9344	5	4.42	112.3
Davis, Fort	N. 30 38	W. 103 56	5.12 a.m.	4940	1506	25.24	641.1	30.20	767.1	35.8	2.1	68.5	5	1	1	2	.....	1	.....	3	15	4323	6957	5	0.02	0.5
Dayton	N. 46 19	W. 117 56	4.16 a.m.	1660	506	28.47	723.1	30.29	769.4	10.3	-12.1	78.5	7	2	1	9	1	.....	3	2	3	2717	4372	3	1.17	29.7
Deadwood	N. 44 23	W. 103 43	5.13 a.m.	4600	1402	25.38	644.6	30.30	769.6	13.8	-10.1	82.8	.....	1	2	6	3	.....	1	14	1649	2654	3	1.32	33.5
Del. Breakwater	N. 38 48	W. 75 10	7.07 a.m.	20	6	30.27	768.8	30.29	769.4	35.6	2.0	83.3	7	5	.....	6	2	2	3	3	.....	11571	18621	6	4.07	103.4
Denison	N. 33 48	W. 96 32	5.42 a.m.	767	234	29.45	748.0	30.29	769.4	36.2	2.3	86.0	11	1	1	3	2	3	3	2	2	4825	7766	7	2.78	70.6
Denver	N. 39 45	W. 105 00	5.08 a.m.	5294	1614	24.75	628.6	30.27	768.8	15.2?	—9.3?	72.3	2	1	.....	2	14	2	.....	1	6	2499	4022	1	0.45	11.4
Des Moines	N. 41 35	W. 93 37	5.54 a.m.	849	259	29.37	746.0	30.34	770.6	14.0	-10.0	67.1*a*	6	6	4	2	3	2	1	2	2	4379	7047	5	2.51	63.8
Detroit	N. 42 20	W. 83 03	6.36 a.m.	661	201	29.50	749.3	30.25	768.3	22.9	—5.1	86.2	2	1	9	9	2	.....	2	3	.....	6641	10688	6	3.22	81.8
Dodge City	N. 37 45	W. 100 00	5.28 a.m.	2512	766	27.59	700.8	30.33	770.4	18.0	—7.8	78.9	3	9	4	2	.....	3	4	1	2	7210	11603	3	1.42	36.1
Dubuque	N. 42 30	W. 90 44	6.05 a.m.	665	203	29.53	750.0	30.29	769.4	12.7	-10.7	63.2	1	3	5	4	2	.....	1	11	.....	2492	4010	5	2.60	66.0
Duluth	N. 46 48	W. 92 06	6.00 a.m.	644	184	29.44	747.8	30.25	768.3	4.7	-15.2	80.0	1	2	6	7	5	.....	2	1	4	5621	9046	5	0.78	19.8
Eagle Pass	N. 28 44	W. 100 29	5.26 a.m.	780	238	29.40	746.7	30.24	768.1	48.3	9.1	79.7	5	4	.....	.....	3	13	.....	2	1	4661	7501	8	0.32	8.1
Eagle Rock	N. 43 32	W. 111 55	4.40 a.m.	4650	1415	25.38	644.6	30.28	769.1	—6.5	-21.4	84.0	21	.....	.....	4	.....	.....	.....	.....	3	4536	7300	2	2.38	60.5
Eastport	N. 44 54	W. 66 59	7.40 a.m.	61	18	30.09	764.3	30.16	766.1	17.3	—8.2	76.7	3	5	6	5	4	1	2	2	.....	8300	13454	6	3.63	92.2
Elliott, Fort	N. 35 30	W. 100 21	5.27 a.m.	2650	808	27.39	695.7	30.29	769.4	22.4	—5.3	53.9	3	4	2	2	6	2	1	5	3	6618*a*	10650*a*	4	0.53	13.5
El Paso	N. 31 47	W. 106 30	5.02 a.m.	3760	1146	26.31	668.3	30.19	766.8	40.3	4.6	62.4	1	13	5	1	.....	.....	.....	3	.....	4969	7997	5	0.40	10.2
Erie	N. 42 07	W. 80 05	6.48 a.m.	681	208	29.48	748.8	30.25	768.3	24.5	—4.2	82.6	.....	3	8	7	3	.....	2	1	4	7506	12080	7	5.94	150.9
Escanaba	N. 45 48	W. 87 05	6.20 a.m.	612	186	29.49	749.0	30.21	767.3	5.8	-14.6	78.0*a*	1	4	9	5	3	.....	1	2	3	5529	8898	6	1.27	32.3
Fredericksburg *b*	N. 30 17	W. 98 52	5.32 a.m.	1700	518	28.42	721.9	30.22	767.6	40.1	7.8	86.1	6	1	4	.....	9	.....	3	3	.....	5256	8459	8	0.87	22.1
Galveston	N. 29 18	W. 94 47	5.49 a.m.	48	15	30.16	766.1	30.20	767.1	52.3	11.3	88.9	6	1	1	.....	2	8	3	7	.....	10999	17701	6	1.15	29.2
Grand Haven	N. 43 05	W. 86 18	6.23 a.m.	620	189	29.52	749.8	30.23	767.8	20.6	—6.3	82.2	1	2	9	5	3	.....	1	5	2	8910	14339	8	4.30	109.2
Grant, Fort	N. 32 39	W. 109 57	4.48 a.m.	4860	1481	25.24	641.1	30.10	764.5	35.4	1.9	61.9	4	4	1	.....	1	2	8	6	2	6395	10292	5	1.40	35.6
Hatteras	N. 35 15	W. 75 40	7.05 a.m.	19	6	30.28	769.1	30.30	769.6	46.5	8.1	86.0	1	3	3	5	2	2	1	11	.....	12159	19568	6	3.08	78.2
Helena	N. 46 34	W. 112 04	4.40 a.m.	4100	1250	25.89	657.6	30.29	769.4	9.1	-12.7	90.5	.....	1	1	6	.....	.....	.....	.....	20	2017	3236	4	0.73	18.5
Henrietta	N. 33 46	W. 98 12	5.35 a.m.	980	300	29.24	742.7	30.30	769.6	33.5	0.8	83.0	10	3	.....	.....	2	6	2	2	3	5733	9230	7	2.23	56.6
Huron	N. 44 21	W. 98 09	5.35 a.m.	1305	398	28.82	732.0	30.34	770.6	6.6	-14.1	61.7	1	10	2	4	3	8	.....	.....	.....	6543	10530	5	0.47	11.9
Indianapolis	N. 39 46	W. 86 10	6.23 a.m.	753	229	29.45	748.0	30.30	769.6	26.7	—2.9	77.3	5	6	3	2	3	3	3	2	1	3791*b*	6101*b*	6	7.19	182.6
Indianola	N. 28 32	W. 96 31	5.42 a.m.	26	8	30.15	765.8	30.18	766.6	50.6	10.3	88.2	12	1	1	.....	5	5	1	3	.....	10542	16965	7	0.81	20.6
Jacksboro	N. 33 12	W. 98 10	5.35 a.m.	1120	341	29.05	737.9	30.29	769.4	34.9	1.6	66.6	8	3	1	2	3	5	2	1	3	4915	7910	6	2.04	51.8
Jacksonville	N. 30 20	W. 81 39	6.42 a.m.	43	13	30.24	768.1	30.29	769.4	58.9	14.9	87.6	5	1	.....	1	3	.....	.....	4	14	1493	2406	4	0.48	12.2
Keogh, Fort	N. 46 22	W. 105 56	5.04 a.m.	2372	723	27.64	702.0	30.32	770.1	2e4	-16.4	74.4	2	3	2	8	.....	.....	.....	3	10	3595	5785	3	0.11	2.8

RESULT OF SIMULTANEOUS OBSERVATIONS FOR FEBRUARY, 1883.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea: Feet.	Altitude: Metr's	Mean Barometer, Actual: Inch.	Actual: Mill.	Reduced: Inch.	Reduced: Mill.	Mean Temperature: Fah.	Cent.	Mean Rel. Humidity.	Wind Directions: N	NW	W	SW	S	SE	E	NE	C	Total Movement: Miles	Kil.	Average Cloudiness 0–10	Total Precipitation: Inch.	Mill.
U. S.—Continued.	° ′	° ′																								
Kookuk	N. 40 22	W. 91 26	6.02 a.m.	618	188	29.60	751.8	30.30	769.6	20.2	—6.6	74.8	3	6	6	4	1	2	4	2	......	5761	9271	5	6.13	155.7
Key West	N. 24 34	W. 81 49	6.41 a.m.	20	6	30.14	765.5	30.16	766.1	72.8	22.7	85.4	1	......	......	......	......	4	16	7	......	8263	13298	5	0.80	20.3
Kittyhawk	N. 36 00	W. 75 42	7.05 a.m.	22	7	30.30	769.6	30.32	770.1	44.8	7.2	77.6	3	2	2	6	2	......	2	11	......	11352	18269	6	2.87	72.9
Knoxville	N. 35 56	W. 83 58	6.32 a.m.	980	299	29.24	742.7	30.32	770.1	40.9	4.9	85.4	7	2	1	6	......	......	1	8	3	4649	7482	7	3.46	87.9
La Crosse	N. 43 49	W. 91 15	6.03 a.m.	725	221	29.44	747.8	30.28	769.1	10.7	-11.8	72.8	5	4	5	3	7	4	......	......	......	5229	8415	4	1.25	31.7
Leavenworth	N. 39 19	W. 94 57	5.48 a.m.	842	256	29.40	746.7	30.35	770.9	22.0	—5.6	78.4	3	8	1	......	2	2	2	1	9	3963	6378	5	2.92	74.2
Lewiston	N. 46 28	W. 117 05	4.20 a.m.	780	238	29.51	749.5	30.38	771.6	17.6	—8.0	74.1	......	......	1	2	......	3	9	5	8	2325	3742	3	0.82	20.8
Little Rock	N. 34 45	W. 92 06	6.00 a.m.	298	91	29.97	761.2	30.30	769.6	41.2	5.1	80.2	6	3	......	1	4	......	3	3	8	3982	6408	7	6.47	164.3
Los Angeles	N. 34 03	W. 118 15	4.15 a.m.	371	113	29.71	754.6	30.11	764.8	45.0	7.2	69.1	2	2	......	......	1	3	3	15	2	4519	7272	4	3.47	88.1
Louisville	N. 38 15	W 85 45	6.25 a.m.	530	162	29.70	754.4	30.29	769.4	35.7	2.1	70.3	3	4	6	1	7	......	3	4	......	6774	10902	8	8.72	221.5
Lynchburg	N. 37 25	W. 79 09	6.52 a.m.	652	199	29.58	751.3	30.30	769.6	39.7	4.3	67.0	1	4	6	4	3	1	4	4	1	3131	5039	6	2.94	74.7
Mackinaw City	N. 45 47	W. 84 39	6.30 a.m.	605	184	29.48	748.8	30.18	766.6	10.6	-11.9	72.0	......	4	11	4	1	1	5	1	1	8092	13023	6	2.99	75.9
Macon, Fort	N. 34 42	W. 76 40	7.01 a.m.	11	3	30.29	769.4	30.30	769.6	47.0	8.3	87.7	5	4	1	9	......	2	......	7	......	8810	14178	6	3.14	79.8
Madison	N. 43 05	W. 89 24	6.10 a.m.	949	289	29.18	741.2	30.27	768.8	11.4	-11.4	72.6	3	2	10	4	1	3	2	1	2	6112	9836	4	1.64	41.7
Maginnis Fort.	N. 47 12	W. 109 10	4.51 a.m.	4340	1324	25.58	649.7	30.33	770.4	14.4	—9.8	46.9	4	8	12	2	......	2	...	......	......	8507	13690	4	0.59	15.0
McKavett, Fort. *h*	N. 30 48	W. 100 07	5.28 a.m.	2240	683	27.92	709.2	30.30	769.6	39.4	4.1	83.8	6	......	1	2	3	2	1	3	2	4160	6695	8	1.61	40.9
Marquette	N. 46 34	W. 87 24	6.18 a.m.	673	205	29.38	746.2	30.16	766.1	10.0	-12.2	64.6	4	6	8	3	3	2	2	......	......	6766	10889	4	1.43	36.3
Memphis	N. 35 09	W. 90 03	6.08 a.m.	321	98	29.96	761.0	30.31	769.9	38.5	3.6	88.3	7	2	3	1	2	3	2	6	2	4663	7504	7	8.09	205.5
Milwaukee	N. 43 02	W. 87 54	6.16 a.m.	697	212	29.46	748.3	30.26	768.6	15.6	—9.1	78.9	2	11	7	4	......	1	2	1	......	9363	15068	5	2.64	67.1
Missoula, Fort	N. 46 50	W. 114 07	4.32 a.m.	3140	957	26.89	683.0	30.32	770.1	6.8	-14.0	76.0	3	3	3	1	2	......	2	6	8	2065	3323	4	0.69	17.5
Mobile	N. 30 41	W. 88 02	6.16 a.m.	41	12	30.21	767.3	30.25	768.3	54.9	12.7	84.4	13	......	......	2	5	3	2	3	......	4271	6874	6	3.63	92.2
Montgomery	N. 32 23	W. 86 18	6.23 a.m.	219	66	30.03	762.7	30.27	768.8	52.6	11.4	83.6	3	3	1	2	1	6	2	7	3	4137	6656	7	2.00	50.8
Moorhead	N. 46 52	W. 96 44	5.41 a.m.	923	281	29.20	741.7	30.30	769.6	—4.7	-20.4	96.2	5	4	5	......	5	3	......	......	6	7514	12092	5	0.74	18.8
Morgantown	N. 39 40	W. 79 50	6.49 a.m.	963	293	29.25	742.9	30.32	770.1	35.3	1.8	71.5	5	1	2	13	......	......	1	5	1	6508	10473	6	7.07	179.6
Mt. Washington	N. 44 16	W. 71 18	7.23 a.m.	6279	1914	23.43	595.1	30.05	763.3	1.9	-16.7	92.6	......	20	3	4	1	......	......	......	......	32402	52143	4	5.65	143.5
Nashville	N. 36 10	W. 86 47	6.21 a.m.	507	154	29.70	754.4	30.31	769.9	40.4	4.7	79.2	4	7	2	......	4	3	5	3	......	5597	9007	7	7.89	200.4
New Haven	N. 41 18	W. 72 56	7.16 a.m.	107	32	30.12	765.0	30.24	768.1	24.4	—4.2	75.9	2	8	5	2	1	1	1	5	3	4967	7993	5	5.00	127.0
New London	N. 41 21	W. 72 05	7.20 a.m.	47	14	30.22	767.6	30.26	768.6	28.0	—2.2	77.9	4	7	5	3	1	1	2	2	3	4841	7791	5	6.02	152.9
New Orleans	N. 29 58	W. 90 04	6.08 a.m.	52	16	30.16	766.1	30.22	767.6	59.2	15.1	78.7	6	1	......	......	6	11	1	3	......	5736	9231	7	1.59	40.4
Newport	N. 41 29	W. 71 19	7.23 a.m.	44	13	30.18	766.6	30.23	767.8	28.8	—1.8	76.0	4	7	6	6	......	2	2	1	......	7713	12413	6	5.72	145.3
New York	N. 40 43	W. 74 00	7.12 a.m.	164	50	30.09	764.3	30.28	769.1	29.1	—1.6	83.1	......	1	10	4	3	......	3	4	3	5577	8975	6	4.58	116.3
Norfolk *a*	N. 36 51	W. 76 17	7.03 a.m.	30	9	30.29	769.4	30.32	770.1	42.7	5.9	76.4	5	2	2	5	......	......	3	7	3	5483	8824	5	3.84	97.5
North Platte	N. 41 08	W. 100 45	5.25 a.m.	2841	866	27.24	691.9	30.34	770.6	10.3	-12.1	75.8	......	6	11	1	3	1	......	3	3	5824	9373	3	1.38	35.1
Olympia	N. 47 03	W. 122 53	3.57 a.m.	36	11	30.16	766.1	30.20	767.1	29.8	—1.2	81.5	1	......	......	1	4	......	1	1	20	1432	2304	6	3.18	80.8
Omaha	N. 41 16	W. 95 56	5.44 a.m.	1113	339	29.10	739.1	30.37	771.4	16.5	—8.6	72.4	9	3	4	......	5	4	......	1	2	5134	8262	4	1.09	27.7
Ooglaamie	N. 71 17	W. 156 40	1.41 a.m.	17	5	30.22	767.6	30.24	768.1	—9.2	-22.9	99.5	1	3	8	5	4	2	4	......	1	9279	14933	4	0.84	21.3
Oswego	N. 43 29	W. 76 35	7.02 a.m.	304	93	29.84	757.9	30.19	766.8	24.2	—4.3	70.7	1	6	4	3	8	4	1	1	......	9026	14526	8	2.76	70.1
Palestine	N. 31 45	W. 95 40	5.45 a.m.	523	162	29.70	754.4	30.28	769.1	44.0	6.7	79.4	7	1	1	2	3	3	3	8	......	6901	11106	7	4.01	101.8
Pensacola	N. 30 25	W. 87 13	6.19 a.m.	30	9	30.23	767.8	30.26	768.6	56.5	13.6	85.9	9	1	......	......	1	7	2	6	2	4780	7692	5	2.12	53.8
Philadelphia	N. 39 57	W. 75 09	7.07 a.m.	92	28	30.19	766.8	30.30	769.6	34.0	1.1	70.6	3	7	2	5	1	2	2	3	3	4986	8024	7	5.04	128.0
Pike's Peak	N. 38 50	W. 105 02	5.08 a.m.	14134	4308	17.58	446.5	30.30	769.6	2.1	-16.6	84.4	1	3	8	12	......	......	......	4	......	....	....	3	0.49	12.4
Pioche	N. 37 56	W. 114 26	4.30 a.m.	6110	1862	24.00	609.6	30.16	766.1	21.5	—5.8	70.2	3	14	......	1	5	1	......	......	4	4835	7778	2	0.28	7.1
Pittsburg	N. 40 32	W. 80 02	6.48 a.m.	762	232	29.42	747.3	30.28	769.1	31.9	—0.1	79.8	2	3	8	5	3	......	2	2	3	4600	7403	7	4.92	125.0
Poplar River *a*	N. 48 08	W. 105 10	5.07 a.m.	2030	619	27.97	710.4	30.32	770.1	......	......	......	......	19	3	3	......	1	......	1	......	....	....	2	0.43	10.9
Port Eads	N. 29 09	W. 89 15	6.11 a.m.	7	2	30.21	767.3	30.22	767.6	58.8	14.9	91.1	1	......	......	......	2	8	4	13	......	8029	12921	6	0.95	24.1
Port Huron	N. 43 00	W. 82 26	6.38 a.m	633	193	29.51	749.5	30.24	768.1	16.6	—8.6	86.7	1	2	8	5	6	1	......	3	2	6129*d*	9864*d*	6	4.00	101.6
Portland, Maine	N. 43 39	W. 70 15	7.27 a.m.	45	14	30.14	765.5	30.19	766.8	21.8	—5.9	68.1	6	10	6	3	1	......	......	2	......	6132	9868	5	2.81	71.4
Portland, Oreg. *a*	N. 45 32	W. 122 43	3.57 a.m	67	20	30.18	766.6	30.25	768.3	28.9	—1.7	73.7	4	3	......	......	2	1	6	3	8	3124	5028	4	2.34	59.4
Portsmouth *b*	N. 35 02	W. 76 04	7.04 a m.	40	12	....	....	....	....	47.4	8.6	88.3	4	2	1	5	2	1	......	11	......	10771*d*	17334*d*	7	3.16	80.3
Prescott	N. 34 33	W. 112 28	4.38 a.m.	5340	1628	24.73	628.1	30.09	764.3	27.6	—2.4	76.0	3	2	......	9	9	......	2	......	3	5042	8114	3	0.63	16.0
Provincetown	N. 42 03	W. 70 11	7.27 a.m.	26	8	30.17	766.3	30.20	767.1	28.2	—2.1	74.8	3	4	7	6	2	3	1	2	....	7845	12625	6	5.00	127.0
Punta Rassa	N. 26 29	W. 82 01	6.40 a.m.	13	4	30.20	767.1	30.21	767.3	65.7	18.7	86.8	2	......	......	......	......	1	16	9	......	6715	10806	4	0.01	0.3
Red Bluff	N. 40 10	W. 122 15	3.59 a.m.	350	106	29.78	756.4	30.15	765.8	37.3	2.9	74.7	13	12	......	......	2	......	......	......	1	4311	6938	2	0.39	9.9
Rochester	N. 43 08	W. 77 42	6.57 a.m.	621	189	29.50	749.3	30.21	767.3	21.0	—6.1	86.3	......	7	9	5	2	5	......	......	......	11190	16399	8	2.28	57.9
Roseburg	N. 43 13	W. 123 20	3.55 a.m.	511	156	29.62	752.3	30.19	766.8	31.4	—0.3	83.5	4	6	1	......	3	1	4	4	5	1730	2784	5	1.17	29.7
Sacramento	N. 38 35	W. 121 30	4.02 a.m.	65	20	30.05	763.3	30.13	765.3	39.7	4.3	82.8	7	5	......	1	5	6	2	1	1	3817	6141	2	1.11	28.2
Saint Louis	N. 38 38	W. 90 12	6.07 a.m.	568	173	29.69	754.1	30.33	770.4	26.9	—2.8	89.6	5	8	2	2	5	2	3	1	......	6937	11163	6	5.88	149.4
Saint Michael, Ft	N. 63 48	W. 162 00	1.20 a.m.	30	9	30.34	770.6	30.37	771.4	9.4	-12.6	99.0	5	2	2	......	7	6	1	3	2	8165	13140	6	0.34	8.6
Saint Paul	N. 44 58	W. 93 03	5.56 a.m.	811	247	29.33	745.0	30.26	768.6	5.9	-14.5	83.1	3	4	3	9	......	3	2	......	4	4620	7435	4	0.44	11.2
Saint Vincent	N. 48 56	W. 97 14	5.39 a.m.	804	245	29.28	743.7	30.25	768.3	—7.8	-22.1	85.1	2	11	1	1	3	5	......	......	5	5152	8292	3	0.24	6.1
Salt Lake City	N. 40 46	W. 111 54	4.40 a.m.	4348	1325	25.71	653.0	30.27	768.8	19.9	—6.7	60.5	1	4	1	......	......	1	1	2	18	2590	4168	3	0.72	18.3
San Antonio	N. 29 25	W. 98 25	5.34 a.m.	673	205	29.48	748.8	30.20	767.1	48.5	9.2	81.3	10	......	2	......	......	9	3	2	2	5242	8435	8	0.33	8.4
San Diego *a*	N. 32 43	W. 117 10	4.19 a.m.	67	20	30.01	762.2	30.08	764.0	48.0	8.9	69.0	4	4	4	2	......	2	4	7	......	4699	4344	4	0.95	24.1
Sandusky	N 41 25	W. 82 40	6.37 a.m.	639	195	29.54	750.3	30.26	768.6	25.8	—3.4	80.0	......	9	9	4	......	3	2	1	......	9685	15586	7	4.12	104.6
Sandy Hook	N. 40 28	W. 74 00	7.12 a.m.	28	8	30.24	768.1	30.27	768.8	30.7	—0.7	79.3	2	10	5	5	......	1	4	1	......	10231	16465	6	4.22	107.2
San Francisco *a*	N. 37 48	W. 122 26	3.58 a.m.	60	18	30.06	763.5	30.14	765.5	44.4	6.9	77.3	10	3	3	2	2	5	......	1	1	5133	8261	4	1.04	26.4
Santa Fé	N. 35 41	W. 105 57	5.04 a.m.	7106	2166	23.19	589.0	30.27	768.8	29.8	—1.2	60.9	5	2	2	1	5	3	1	9	......	6037	9714	4	0.96	24.4
Savannah	N. 32 05	W. 81 05	6.44 a.m.	87	26	30.22	767.6	30.30	769.6	55.1	12.8	76.9	5	5	2	4	4	......	4	3	1	4703	7570	4	2.34	59.4
Shaw, Fort	N. 47 31	W. 111 48	4.41 a.m.	3550	1082	26.44	671.6	30.28	769.1	12.0	-11.1	69.0	1	3	8	11	......	......	......	2	3	7405	11917	4	0.31	7.9
Shreveport	N. 32 30	W. 93 40	5.53 a.m.	227	69	30.01	762.2	30.26	768.6	43.8	6.6	84.1	7	2	......	1	4	1	3	6	4	4409*a*	7095*a*	7	7.24	183.9
Sill, Fort	N. 34 40	W. 98 23	5.34 a.m.	1200	366	29.00	736.6	30.31	769.9	29.9	—1.2	74.9	14	5	......	2	4	2	1	......	......	7660	12327	6	2.27	57.7
Silver City	N. 32 46	W. 108 14	4.55 a.m.	5890	1795	24.28	616.7	30.13	765.3	31.6	—0.2	76.3	4	9	2	......	1	3	......	......	9	2958	4760	5	0.63	16.0
Sitka	N. 57 03	W. 135 19	3.07 a m.	63	19	30.01	762.2	30.08	764.0	33.1	0.6	71.4	......	......	......	......	......	3	13	12	......	4946	7959	6	6.92	201.2
Smith, Fort *a*	N. 35 22	W. 94 24	5.50 a.m.	449	137	29.80	756.9	30.30	769.6	33.8	1.0	82.9	3	3	2	1	1	......	12	1	5	4415	7105	6	5.62	142.7
Smithville	N. 33 55	W. 78 01	6.56 a.m.	34	10	30.27	768.8	30.31	769.9	49.6	9.8	85.7	6	.....	9	3	......	1	1	7	1	6765	10887	3	2.33	59.2
Spokane Falls	N. 47 40	W. 117 25	4.18 a.m.	1910?	582?	28.21	716.5	30.34	770.6	14.0	-10.0	80.2	......	1	......	5	......	1	6	3	12	1990	3202	3	2.95	74.9
Springfield, Ill.	N. 39 48	W. 89 39	6.10 a.m.	644	196	29.59	751.6	30.32	770.1	26.0	—3.3	79.0	1	10	2	4	3	2	5	1	......	5953	9570	4	7.53	191.3
Springfield, Mo.	N. 37 12	W. 93 18	5.55 a.m.	1351	412	28.79	731.3	30.30	769.6	29.0	—1.7	79.5	5	4	1	3	6	5	2	1	1	6441	10366	5	5.65	143.5
Starkville	N. 33 35	W. 88 49	6.13 a.m.	455	123	29.80	756.9	30.30	769.6	44.8	7.1	84.2	12	1	1	2	3	2	4	1	2	6865	11048	8	8.41	213.6
Stevenson, Fort *i*	N. 47 35	W. 101 28	5.22 a.m.	1750	534	28.25	717.5	30.27	768.8	—8.5	-22.5	79.0	......	13	1	......	......	1	1	3	1	3927	6321	3	0.10	2.5
Stockton, Fort	N. 30 53	W. 102 53	5.16 a.m.	3010	917	27.10	688.3	30.23	767.8	36.8	2.7	74.6	7	2	3	9	1	3	2	1	......	6167	9924	5	0.54	13.7
Thatcher's Island	N. 42 38	W. 70 34	7.26 a.m.	48	15	30.17	766.3	30.23	767.8	26.0	—3.3	82.7	3	13	5	2	2	1	1	1	......	11609	17073	5	3.41	86.6
Thomas, Camp	N. 33 04	W. 110 02	4.48 a.m.	2710	826	27.33	694.2	30.16	766.1	38.5	3.6	81.1	......	3	......	......	1	2	6	1	15	.....	....	4	1.54	39.1
Toledo	N. 41 40	W. 83 34	6.34 a.m.	651	198	29.52	749.8	30.26	768.6	24.7	—4.1	74.9	3	1	9	8	2	......	3	2	......	6346	10212	7	4.28	108.7
Tucson	N. 32 14	W. 110 53	4.45 a.m.	2369	722	27.59	700.8	30.07	763.8	43.3	6.3	66.6	1	......	1	......	13	7	4	......	2	4288	6900	3	0.51	13.0
Umatilla	N 45 55	W. 119 20	4.14 a.m.	340	103	30.03	762.7	30.41	772.4	10.0	-12.2	88.9	......	1	3	2	......	14	......	2	6	2628	4229	3	0.57	14.5
Verde, Fort	N. 34 33	W. 111 52	4.40 a.m.	?	?	....	....	....	....	36.0	2.2	63.2	6	6	6	5	2	......	......	3	......	....	....	4	1.35	34.3
Vicksburg	N. 32 22	W. 90 53	6.04 a.m.	244	74	30.08	764.0	30.28	769.1	48.1	8.9	79.0	6	4	......	......	4	4	3	4	3	4346	6992	6	6.70	170.2
Visalia	N. 36 20	W. 119 17	4.11 a.m.	348	106	29.75	755.6	30.13	765.3	38.4	3.6	80.6	......	4	......	1	5	11	4	1	2	2249	3619	3	0.54	13.7
Washakie, Fort	N 42 59	W. 108 43	4.53 a.m.	5580	1702	24.48	621.8	30.24	768.1	—9.9	-23.3	82.4*h*	1	2	13	2	......	2	2	1	5	2309	3716	2	0.65	16.5
Washington, D. C.	N. 38 54	W. 77 02	7.00 a.m.	106	32	30.20	767.1	30.32	770.1	34.1	1.2	79.2	1	7	2	4	2	......	1	4	7	3250	5230	6	5.08	129.0
W. Las Animas	N. 38 04	W. 103 07	5.16 a.m.	3905	1190	26.13	663.7	30.25	768.3	10.9	-11.7	79.5	5	7	10	2	......	......	1	3	......	5990	9640	2	0.52	13.2
Williamsport	N. 41 15	W. 77 03	7.00 a.m.	561	171	29.63	752.6	30.26	768.6	27.2	—2.7	75.0	2	8	4	2	......	3	3	1	5	4170	6711	7	3.00	76.2
Wilmington	N. 34 14	W. 77 57	6.56 a.m.	52	16	30.26	768.6	30.32	770.1	50.6	10.3	81.5	3	1	6	3	2	1	3	8	1	5144	8279	6	2.09	53.1
Winnemucca	N. 40 59	W. 117 43	4.17 a.m.	4327	1319	25.67	652.0	30.19	766.8	16.6	—8.6	75.7	......	......	1	6	......	......	2	16	3	5559	8946	2	0.17	4.3
Yankton	N. 42 54	W. 97 28	5.38 a.m.	1228	374	28.93	734.8	30.35	770.9	10.5	11.9	70.0	4	3	7	1	3	1	......	2	7	3719*i*	5985*i*	3*i*	1.06	26.9
Yuma	N. 32 45	W. 114 36	4.30 a.m.	141	43	29.89	759.2	30.04	763.0	48.1	8.9	63.6	4	4	2	1	......	2	1	11	3	4167	6705	3	0.68	17.3
Sub-Series.																										
Bogota	N. 4 36	W. 74 14	7.11 a.m.	8655	2638	22.04	559.8	....	....	53.4	11.9	73	5	1	1	5	1	1	3	3	8	2089	3362	7	2.03	51.6
Havana	N. 23 09	W. 82 22	6.39 a.m.	50	15	30.05	763.3	30.12	765.0	69.7	20.9	86.7	1	......	......	......	1	7	18	1	......	6470	10412	2	1.33	33.8
Kingston	N. 18 58	W. 76 48	7.01 a.m.	10	3	30.07	763.8	30.08	764.0	70.6	21.4	81.8	15	......	......	......	......	......	......	......	13	3125	5029	2	0.31	7.9
Paramaribo	N. 5 50	W. 55 13	8.27 a.m.	6	2	30.02	762.5	30.02	762.5	76.7	24.8	91	1	......	......	......	......	3	19	5	......	....	....	6	9.19	233.4
Puerto Berrio	N. 6 22	W. 74 28	7.10 a.m.	542	165	29.34	745.2	29.89	759.2	80	26.7	83	1	1	......	......	1	......	......	......	25	....	....	8	0.72	18.3
Rivas *h*	N. 11 26	W. 85 47	6.25 a.m.	150	46	....	....	....	....	75.8	24.3	91.0*i*	......	......	......	......	......	......	......	20	......	....	....	2	....	....
St. Paul, Alaska *b*	N. 57 47	W. 152 21	1.59 a.m.	54	16	30.11	764.8	30.17	766 3	28.9	—1.7	77.7	6	2	......	2	1	2	......	5	8	....	....	7	3.08	78.2
St. Thomas	N. 18 20	W. 64 56	7.48 a.m.	131	40	30.03	762.7	30.16	766.1	74.8	23.8	74.6	......	......	......	......	......	......	24	4	......	4487	7220	5	2.94	74.7
York Factory	N. 57 02	W. 92 26	5.58 a.m.	55	17	30.10	764.5	30.17	766.3	-23.3	-30.7	....	......	13	11	2	1	......	1	......	......	9940	15997	4	0.13	3.3

OCEAN SQUARE DATA FOR FEBRUARY, 1883.

Location of Centre of each Square.	Barometer.		Temperature.		Wind Frequency.										Wind force 0–10.
	Inch.	Mill.	Fah.	Cent.	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Blank.	
N. 12.5 W. 22.5	30.03	762.7	75.5	24.2						1	4	19		4	2.9
12.5 27.5	30.07	763.8	75.3	24.1					1		3	20		4	2.7
12.5 32.5	30.06	763.5	75.6	24.2							8	15		5	2.5
12.5 37.5	30.07	763.8	75.8	24.3							11	13		4	2.7
12.5 42.5	30.07	763.8	75.7	24.3						1	11	10		6	2.9
12.5 47.5	30.10	764.5	76.2	24.6							10	9		9	3.0
12.5 52.5	30.08	764.0	77.0	25.0							10	8		10	2.9
17.5 22.5	30.09	764.3	73.1	22.8						1	4	21		2	2.9
17.5 27.5	30.12	765.0	73.2	22.9				1			4	20		3	3.0
17.5 32.5	30.13	765.3	73.6	23.1		1					9	15		3	2.8
17.5 37.5	30.15	765.8	73.7	23.2						1	11	13		3	2.8
17.5 42.5	30.16	766.1	73.7	23.2						3	11	10		4	2.9
17.5 47.5	30.19	766.8	73.8	23.2						3	14	7		4	2.9
17.5 52.5	30.15	765.8	74.3	23.5	1						11	11		5	2.9
17.5 57.5	30.12	765.0	74.8	23.8	1						10	17			2.6
22.5 22.5	30.16	766.1	70.4	21.3	2				1	1	8	15		1	2.8
22.5 27.5	30.19	766.8	70.8	21.0	1			1	1	1	8	14		2	2.6
22.5 32.5	30.18	766.6	71.8	22.1	1				1	1	12	10		3	2.8
22.5 37.5	30.23	767.8	72.1	22.3	1				1	4	8	11		3	2.7
22.5 42.5	30.24	768.1	72.1	22.3	1				1	6	6	12		2	2.8
22.5 47.5	30.23	767.8	72.1	22.3	2				2	3	8	11		2	2.8
22.5 52.5	30.21	767.3	72.7	22.6	1					6	11	8		2	2.5
22.5 57.5	30.20	767.1	72.8	22.7	1					3	9	15			2.5
22.5 62.5	30.20	767.1	73.0	22.8						4	12	12			2.8
22.5 67.5	30.19	766.8	73.3	22.9						2	16	10			2.9
22.5 72.5	30.18	766.6	73.2	22.9						5	17	6			2.6
27.5 22.5	30.22	767.6	65.0	18.3	2	1	1	1	1	3	8	11			2.9
27.5 27.5	30.23	767.8	67.9	19.9	1	2	2		4	2	6	11			2.7
27.5 32.5	30.25	768.3	68.7	20.4	2	2			2	2	7	11		2	2.9
27.5 37.5	30.27	768.8	68.8	20.4	3	2			2	2	6	11		2	2.6
27.5 42.5	30.29	769.4	68.7	20.4	6	2		2		5	4	7		2	2.8
27.5 47.5	30.29	769.4	68.6	20.3	3	2		2	1	5	5	8		2	2.7
27.5 52.5	30.26	768.6	70.0	21.1	3	1			3	6	6	8		1	2.5
27.5 57.5	30.25	768.3	69.4	20.8	2	1			1	6	8	10			2.4
27.5 62.5	30.25	768.3	70.5	21.4	4			1	1	7	9	6			2.6
27.5 67.5	30.25	768.3	71.1	21.7				1	3	7	8	9			2.7
27.5 72.5	30.24	768.1	70.8	21.6	1			1	2	7	11	6			2.6
27.5 77.5	30.24	768.1	70.3	21.3	2	1			1	10	9	5			2.5
32.5 12.5	30.26	768.6	63.1	17.3	2	2		7	1	5	5	6			2.1
32.5 17.5	30.28	769.1	63.6	17.6	2	2		7	2	6	5	4			1.8
32.5 22.5	30.27	768.8	63.9	17.7	4	2	2	6	4	2	5	3			3.1
32.5 27.5	30.25	768.3	64.2	17.9	3	3	3	4	4	3	3	5			2.9
32.5 32.5	30.24	768.1	64.2	17.9	1	4	6	4	1	7		4		1	3.1
32.5 37.5	30.25	768.3	64.1	17.8	2	6	4	3	3	3	3	3		1	3.1
32.5 42.5	30.20	768.0	63.6	17.6	4	7	3	2	5	3		3		1	3.1
32.5 47.5	30.28	769.1	62.7	17.1	5	4	3	3	7			5			3.0
32.5 52.5	30.27	768.8	63.0	17.2	4	3	3	5	6		2	5			2.8
32.5 57.5	30.20	768.6	63.6	17.6	7	5	1	5	4	2	2	2			3.2
32.5 62.5	30.26	768.6	63.9	17.7	5	5		4	4	4	2	4			2.5
32.5 67.5	30.27	768.8	65.1	18.1	7	4	1	3	3	6	1	3			2.6
32.5 72.5	30.28	769.1	63.0	17.2	4	1	1	2	7	2	1	10			3.3
32.5 77.5	30.30	769.6	57.7	14.3	3	1	2	4	4	1		13			2.4
37.5 12.5	30.20	768.6	58.2	14.0	3	3	2	9	1	4	3	3			2.0
37.5 17.5	30.23	767.8	59.3	15.2	1	4	4	9	1	3	2	4			2.7
37.5 22.5	30.20	768.6	60.1	15.6	3	5	3	5	2	3	5	2			2.8
37.5 27.5	30.28	769.1	59.8	15.4	4	6	3	3	4	5	3				2.7
37.5 32.5	30.20	767.1	58.8	14.9	2	5	6	3	5	4		3			3.3
37.5 37.5	30.15	765.8	58.0	14.4	1	10	3	1	7	4		2			3.4
37.5 42.5	30.10	766.1	56.0	13.3	4	8	3	5	3	2		3			3.4
37.5 47.5	30.20	767.1	55.2	12.9	3	12	1	4	3	1		4			3.5
37.5 52.5	30.23	767.8	53.7	12.1	5	6	5	4	3	2	2	1			3.2
37.5 57.5	30.21	767.3	52.3	11.3	4	11	2	3	3	3	1	1			3.6
37.5 62.5	30.22	767.6	53.5	11.9	10	7	1	4	2	1	1	2			3.5
37.5 67.5	30.24	768.1	52.4	11.3	10	6	1	3	3	4		1			3.5
37.5 72.5	30 28	769.1	46.3	7.9	11	3	1	2	5	1		5			3.2
42.5 12.5	30.14	765.5	55.2	12.9	2	3	2	9	4	4	2	2			3.3
42.5 17.5	30.09	764.3	55.2	12.9	2	2	6	9	3	5		1			3.9
42.5 22.5	30.07	763.8	54.7	12.6	1	3	8	8	4	4					3.9
42.5 27.5	30.05	763.3	54.0	12.2	1	7	5	8	4	3					4.1
42.5 32.5	29.98	761.5	52.9	11.6	2	8	5	6	5	2					4.4
42.5 37.5	29.98	761.5	50.3	10.2	3	12	1	6	4	1		1			4.6
42.5 42.5	30.02	762.5	46.2	7.9	2	12	4	4	5			1			4.2
42.5 47.5	30.05	763.3	40.4	4.7	4	13	3	3	3	1		1			4.2
42.5 52.5	30.11	764.8	37.3	2.9	6	11	3	3	4	1					4.1
42.5 57.5	30.12	765.0	36.5	2.5	5	11	2	2	5	2	1				4.1
42.5 62.5	30.16	766.1	31.6	—0.2	4	12	3		5	2		2			3.6
42.5 67.5	30.18	766.6	29.1	—1.6	8	7	1	3	3	4	2				3.4
47.5 12.5	29.99	761.7	49.6	9.8		2	6	5	9	3	2	1			4.1
47.5 17.5	29.89	759.2	50.7	10.4		2	6	8	8	4					4.3
47.5 22.5	29.86	758.4	46.0	7.8	2	1	8	9	6	2					5.0
47.5 27.5	29.79	756.7	47.6	8.7	1	8	6	5	6	2					5.1
47.5 32.5	29.73	755.1	45.5	7.5	3	9	5	6	4	1					5.0
47.5 37.5	29.75	755.6	42.3	5.7	1	12	4	5	4	1		1			5.0
47.5 42.5	29.80	756.9	36.3	2.4	2	15	3	3	4			1			4.4
47.5 47.5	29.87	758.7	28.1	—2.2	3	14	4	4	2		1				4.3
52.5 12.5	29.81	757.2	49.0	9.4	1	2	2	16	5	1	1				4.3
52.5 17.5	29.67	753.6	46.2	7.9	1	1	3	15	6	1	1				4.5
52.5 22.5	29.59	751.6	44.2	6.8		2	5	12	6	1	1	1			5.1
52.5 27.5	29.57	751.1	41.3	5.2	2	6	5	9	5	1					4.9
52.5 32.5	29.56	750.8	38.9	3.8	1	10	5	5	6	1					4.8
52.5 37.5	29.54	750.3	34.2	1.2	1	13	4	4	6						4.7
52.5 42.5	29.57	751.1	28.1	—2.2		17	3	5	3						4.4
52.5 47.5	29.59	751.6	21.7	—5.7	5	14	3	6							4.0
57.5 12.5	29.56	750.8	42.8	6.0			1	16	7	2		2			4.8
57.5 17.5	29.42	747.3	41.6	5.3	2	1	1	14	8	1		1			4.6
57.5 22.5	29.30	744.2	39.3	4.1	2		3	11	8	2	1	1			5.0
57.5 27.5	29.23	742.4	35.6	2.0	2	7	2	8	7	1	1				4.9
57.5 32.5	29.26	743.2	31.5e	—0.3e	4	11	1	4	7	1					4.8
57.5 37.5	29.26	743.2	27.7f	—2.4f	5	11	1	7	4						4.6
57.5 42.5	29.32	744.7			4	16	2	4	1			1			4.3
57.5 47.5	29.36	745.7			9	11	1	5				1		1	4.0

NOTE.—See General Remarks.

IRKUTSK, SIBERIA.

DATE.	Barometer. Corrected for instrumental error and temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative Humidity	Wind. Direction.	Wind. Velocity.		Wind. Force	Clouds. Amount.		Clouds. Direction.		Rainfall or melted snow in past 24 hours.		Weather.
												Upper.	Lower.	Up'er	Lo'er			
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles perhour	Metrs prsec.	0–10	0–10	0–10	From	From	Inch.	Mill.	
1882.																		
August 1	28.37	720.6	29.96	760.9	65.3	18.5	58	calm			0		2			0	0	
2	28.48	723.4	30.08	764.1	61.7	16.5	94	w.			1		9			0.055	1.4	
3	28.53	724.6	30.11	764.7	70.2	21.2	63	calm			0		7			0.004	0.1	
4	28.37	720.7	29.96	760.9	66.4	19.1	81	calm			0		4			0.039	1.0	
5	28.18	715.7	29.74	755.4	69.6	20.9	60	calm			0		4			0.067	1.7	
6	28.32	719.2	29.91	759.6	63.1	17.3	61	calm			0		2			0	0	
7	28.22	716.9	29.79	756.7	68.7	20.4	49	calm			0		0			0	0	
8	28.22	716.9	29.80	756.8	67.6	19.8	63	s.			2		9			0	0	
9	28.28	718.3	29.85	758.1	70.0	21.1	86	calm			0		10			0.248	6.3	
10	28.23	717.1	29.80	756.8	69.8	21.0	82	calm			0		8			0	0	
11	28.08	713.1	29.62	752.3	73.9	23.3	71	ne.			2		4			0	0	
12	28.03	711.9	29.57	751.0	73.8	23.2	66	sse.			1		8			0	0	
13	28.02	711.8	29.56	750.8	74.7	23.7	71	nne.			4		9			0	0	
14	28.26	717.7	29.85	758.1	62.4	16.9	89	calm			0		9			0	0	
15	28.05	712.5	29.62	752.4	64.6	18.1	83	sw.			1		10			0.421	10.7	
16	28.30	718.7	29.87	758.6	68.5	20.3	71	calm			0		6			0	0	
17	28.21	716.4	29.78	756.4	65.3	18.5	75	calm			0		8			0	0	
18	28.07	712.9	29.64	752.9	64.0	17.8	76	calm			0		5			0.630	16.0	
19	28.05	712.4	29.63	752.0	60.3	15.7	99	calm			0		10			0	0	
20	28.40	721.4	30.01	762.3	58.8	14.9	71	nw.			1		7			0.787	20.0	
21	28.36	720.4	29.96	760.9	62.4	16.9	69	s.			1		5			0	0	
22	28.08	713.3	29.65	753.0	67.8	19.9	53	se.			1		3			0	0	
23	28.71	729.1	30.37	771.4	40.8	8.2	87	calm			0		2			0	0	
24	28.44	722.4	30.06	763.5	57.2	14.0	64	calm			0		1			0	0	
25	28.33	719.6	29.93	760.1	62.4	16.9	61	calm			0		2			0	0	
26	28.36	720.4	29.95	760.6	66.0	18.9	69	calm			0		7			0	0	
27	28.22	716.7	29.79	756.7	66.6	19.2	68	sse.			1		10			0	0	
28	28.21	716.6	29.78	756.4	68.5	20.3	69	calm			0		4			0	0	
29	27.97	710.5	29.52	749.8	70.3	21.3	65	s.			2		10			0	0	
30	27.90	708.6	29.45	748.0	67.3	19.6	64	calm			0		4			0	0	
31	28.48	723.3	30.13	765.2	47.8	8.8	96	calm			0		10			0.217	5.5	
Mean	28.25	717.5	29.83	757.6	65.3	18.5	72.1						6			2.469	62.7	
September 1	28.54	725.0	30.20	767.1	46.9	8.3	93	calm			0		10			0	0	
2	28.25	717.6	29.90	759.4	45.1	7.3	90	wnw.			1		10			0.260	6.6	
3	28.41	721.6	30.05	763.2	49.8	9.9	88	nw.			2		9			0	0	
4	28.44	722 3	30.09	764.2	46.9	8.5	96	nw.			1		10			0.354	9.0	
5	28.40	721.3	30.02	762.5	54.9	12.7	69	calm			0		0			0	0	
6	28.38	720.8	30.00	761.9	55.9	13.3	66	calm			0		0			0	0	
7	28.33	719.5	29.93	760.3	57.9	14.4	60	calm			0		0			0	0	
8	28.45	722.6	30.06	763.6	58.5	14.7	76	calm			0		8			0	0	
9	28.32	719.4	29.92	759.9	61.7	16.5	62	calm			0		0			0	0	
10	28.54	725.0	30.18	766.6	52.5	11.4	85	calm			0		1			0	0	
11	28.24	717.4	29.85	758.1	58.5	14.7	76	calm			0		9			0	0	
12	28.51	724.2	30.17	766.4	45.3	7.4	93	nw.			5		10			0.374	9.5	
13	28.54	724.9	30.20	767.0	46.9	8.3	85	calm			0		10			0	0	
14	28.34	719.7	29.97	761.1	51.4	10.8	62	calm			0		7			0	0	
15	28.18	715.7	29.78	756.3	57.0	14.2	71	calm			0		3			0	0	
16	28.32	719.2	29.93	760.1	56.7	13.7	68	calm			0		8			0	0	
17	28.35	720.0	29.98	761.6	49.8	9.9	96	calm			0		10			0.138	3.5	
18	28.14	714.8	29.79	756.7	42.1	5.6	95	nw.					10			1.189	30.2	
19	28.30	718.8	29.95	760.7	44.8	7.1	76	calm			0		2			0	0	
20	28.13	714 6	29.76	755.9	48.7	9.3	74	calm			0		1			0	0	
21	28.71	729.1	30.42	772.7	33.3	0.7	96	calm			0		8			0.205	5.2	
22	28.05	727.8	30.34	770.6	40.8	4.9	68	calm			0		0			0	0	
23	28.60	720.3	30.24	768.0	52.3	11.3	53	calm			0		0			0	0	
24	28.48	723.4	30.11	764.9	52.7	11.5	79	calm			0		8			0	0	
25	28.64	727.5	30.33	770.4	40.5	4.7	77	calm			0		6			0	0	
26	28.71	729.1	30.39	772.0	41.0	5.0	69	calm			0		0			0	0	
27	28.65	727.7	30.33	770.4	43.5	6.4	61	calm			0		0			0	0	
28	28.57	725.7	30.22	767.6	49.5	9.7	64	calm			0		0			0	0	
29	28.39	721.1	30.03	762.7	50.5	10.3	69	calm			0		0			0	0	
30	28.13	714.6	29.75	755.7	51.6	10.9	69	calm			0		0			0	0	
Mean	28.42	721.9	30.06	763.6	49.6	9.8	76.4						5			2.520	64.0	
October 1	28.37	720.7	30.05	763.2	39.6	4.2	92	nw.			4		10			0.197	5.0	
2	28.45	722.7	30.13	765.3	40.1	4.5	72	calm			0		0			0	0	
3	28.47	723.1	30.17	766.3	33.1	0.6	96	wnw.					10			0.138	3.5	
4	28.43	722.0	30.13	765.2	33.3	0.7	69	calm			0		0			0	0	
5	28.43	722.1	30.13	765.4	31.3	— 0.4	87	calm			0		5			0	0	
6	27.87	707.8	29.50	749.4	41.4	5.2	73	calm			0		9			0	0	
7	28.58	725 8	30.31	769.8	26.4	— 3.1	54	n.			2		1			0	0	
8	28.54	724.9	30.25	768.3	32.4	0.2	65	ese.			1		2			0	0	
9	28.48	723.4	30.16	766.0	39.7	4.3	59	ese.			1		0			0	0	
10	28.34	719.9	30.00	762.0	44.1	6.7	60	se.			2		8			0	0	
11	28.22	716.7	29.86	758.4	45.9	7.7	64	se.			2		3			0	0	
12	28.32	719.3	29.97	761.2	45.3	7.4	98	calm			0		10			0.386	9.8	
13	28.77	730.8	30.50	774.7	31.5	— 0.3	98	calm			0		2			0.004	0.1	
14	28.68	728.4	30.40	772.2	30.9	— 0.6	62	calm			0		0			0	0	
15	28.36	720.4	30.05	763.2	36.1	2.3	77	sse.			2		0			0	0	
16	28.12	714.3	29.77	756.1	43.0	6.1	75	calm			0		10			0	0	
17	28.44	722.3	30.14	765.6	31.6	— 0.2	70	n.			2		8			0	0	
18	28.28	718.3	29.98	761.6	29.7	— 1.3	78	calm			0		0			0	0	
19	28.61	726.8	30.37	771.4	21.7	— 5.7	77	calm			0		0			0	0	
20	28.71	729.3	30.44	773.1	31.3	— 0.4	48	calm			0		0			0	0	
21	28.50	723.8	30.10	766.8	36.1	2.3	50	calm			0		0			0	0	
22	28.38	720.8	30.08	763.9	33.3	0.7	60	calm			0		6			0	0	
23	28.30	718.9	29.98	761.5	36.9	2.7	51	calm			0		1			0	0	
24	28.57	725.7	30.31	769.9	24.3	— 4.3	72	calm			0		9			0	0	
25	28.37	720.6	30.10	764.5	24.3	— 4.3	76	calm			0		0			0	0	
26	28.27	718.0	29.98	761.4	28.4	— 2.0	85	calm			0		10			0	0	
27	28.32	719.4	30.06	763.5	21.7	— 5.7	98	nw.			3		10			0.098	2.5	
28	28.99	736.4	30.82	782.8	8.8	—12.9	72	calm			0		7			0	0	
29	29.08	738.6	30.94	785.8	3.0	—16.1	84	calm			0		0			0	0	
30	28.84	732.4	30.68	779.2	2.8	—16.2	91	calm			0		0			0	0	
31	28.49	723.6	30.25	768.3	18.1	— 7.7	93	e.			1		7			0	0	
Mean	28.47	723.1	30.18	766.6	30.6	— 0.8	74.4						4			0.823	20.9	

IRKUTSK, SIBERIA.—CONTINUED.

DATE.	Barometer. Corrected for instrumental error and temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative Humidity	Wind. Direction.	Wind. Velocity.		Force	Clouds. Amount.		Clouds. Direction.		Rainfall or melted snow in past 24 hours.		Weather.
												Upper.	Lower.	Up'er	Lo'er			
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles perhour	Metrs prsec.	0–10	0–10	0–10	From	From	Inch.	Mill.	
1882.																		
November 1	28.56	725.3	30.33	770.3	16.7	— 8.5	97	calm			0		0			0	0	
2	28.63	727.2	30.42	772.7	12.0	—11.1	83	nne.			1		0			0.022	0.5	
3	28.44	722.3	30.19	766.7	20.7	— 6.3	99	wnw.			2		2			0	0	
4	28.00	711.3	29.71	754.7	23.9	— 4.5	94	nw.			6		10			0	0	
5	28.97	735.8	30.84	783.4	— 2.7	—19.3	73	nnw.					0			0	0	
6	28.82	732.1	30.64	778.3	8.4	—13.1	74	calm			0		8			0	0	
7	28.92	734.5	30.77	781.6	0.9	—17.3	87	calm			0		0			0.012	0.3	
8	28.98	736.0	30.82	782.9	4.5	—15.3	85	calm			0		8			0	0	
9	28.82	731.9	30.66	778.8	1.6	—16.9	87	calm			0		0			0	0	
10	28.67	728.3	30.47	773.9	12.4	—10.9	70	calm			0		8			0	0	
11	28.50	725.7	30.36	771.1	12.7	—10.7	88	nne.			1		5			0.004	0.1	
12	28.97	735.7	30.83	783.0	— 0.2	—17.9	91	calm			0		0			0	0	
13	29.37	746.1	31.30	794.9	— 7.4	—21.9	89	calm			0		0			0	0	
14	29.29	743.9	31.20	792.5	— 6.7	— 21.5	93	calm			0		0			0	0	
15	29.02	737.0	30.89	784.5	— 0.8	—18.2	100	calm			0		0			0	0	
16	28.98	736.0	30.84	783.2	1.2	—17.1	100	calm			0		0			0	0	
17	28.82	732.1	30.63	778.0	10.9	—11.7	77	calm			0		0			0	0	
18	29.17	740.8	31.02	787.9	4.8	—15.1	83	ene.			4		3			0	0	
19	28.60	728.0	30.48	774.3	5.2	—14.9	100	calm			0		0			0	0	
20	28.17	715.5	29.93	760.1	14.0	—10.0	87	calm			0		3			0	0	
21	28.57	725.7	30.30	771.2	11.7	—11.3	61	calm			0		10			0	0	
22	28.89	733.8	30.70	779.8	10.9	—11.7	79	calm			0		8			0	0	
23	29.05	737.9	30.92	785.3	0.1	—17.7	71	ne.			2		5			0	0	
24	28.81	731.8	30.55	775.9	29.7	— 1.3	76	calm			0		3			0	0	
25	28.61	726.8	30.37	771.4	21.0	— 6.1	83	calm			0		9			0.122	3.1	
26	28.08	713.1	29.77	756.1	29.3	— 1.5	62	ese.			2		0			0	0	
27	28.76	730.5	30.55	776.0	14.5	— 9.7	62	nw.			3		0			0	0	
28	28.51	724.2	30.30	769.5	12.0	—11.1	77	e.			2		3			0	0	
29	28.09	713.4	29.81	757.1	22.5	— 5.3	84	calm			0		0			0	0	
30	28.04	712.1	29.75	755.6	22.8	— 5.1	89	nnw.			5		3			0	0	
Mean	28.71	729.2	30.51	775.0	10.2	—12.1	83.4						10			0.016	0.4	
December 1	28.28	718.4	30.09	764.3	3.0	—16.1	88	calm			0		3			0.173	4.4	
2	27.99	710.9	29.75	755.6	10.2	—12.1	95	e.			1		7			0	0	
3	28.54	724.8	30.38	771.7	— 2.9	—19.4	70	n.					6			0	0	
4	28.13	714.4	29.80	758.4	19.4	— 7.0	88	nnw.					10			0	0	
5	28.64	727.4	30.47	773.9	2.7	—16.3	67	nw.					9			0	0	
6	28.87	733.2	30.77	781.5	—10.3	—23.5	82	n.			3		0			0	0	
7	29.02	737.2	30.95	786.2	—14.3	—25.7	68	n.			1		0			0	0	
8	28.83	732.3	30.83	783.0	—31.7	—35.4	80	calm			2		9			0	0	
9	28.94	735.0	30.97	786.7	—38.2	—39.0	81	calm			0		0			0	0	
10	29.08	738.7	31.12	790.4	—36.0	—37.8	86	calm			0		0			0	0	
11	28.84	732.6	30.78	781.9	—19.7	—28.7	85	calm			0		9			0	0	
12	28.41	721.7	30.35	770.8	—23.8	—31.0	93	calm			0		3			0	0	
13	28.75	730.2	30.05	778.4	—11.2	—24.0	85	nnw.			4		10			0	0	
14	29.11	739.3	31.00	788.8	—17.0	—27.2	85	calm			0		8			0	0	
15	29.23	742.5	31.22	793.0	—24.2	—31.2	89	calm			0		0			0	0	
16	29.29	743.9	31.28	794.5	—24.2	—31.2	89	calm			0		2			0	0	
17	29.35	745.4	31.37	796.8	—29.7	—34.3	86	calm			0		0			0	0	
18	29.35	745.4	31.39	797.4	—34.6	—37.0	86	calm			0		0			0	0	
19	29.30	744.2	31.36	796.6	—38.6	—39.2	84	calm			0		0			0	0	
20	29.35	745.4	31.39	797.2	—32.8	—36.0	85	calm			0		0			0	0	
21	28.87	733.2	30.85	783.6	—28.3	—33.5	91	calm			0		0			0	0	
22	28.73	729.8	30.66	778.8	—18.8	—28.2	93	calm			0		0			0	0	
23	28.70	728.9	30.62	777.8	—18.8	—28.2	97	calm			0		10			0	0	
24	28.65	727.7	30.52	775.2	— 6.2	—21.2	94	nw.					8			0	0	
25	29.16	740.6	31.15	791.1	—24.9	—31.6	84	calm			0		10			0	0	
26	28.66	728.0	30.67	778.9	—35.3	—37.4	85	calm			0		0			0	0	
27	28.41	721.6	30.33	770.4	—21.6	—29.8	93	calm			0		0			0	0	
28	28.66	727.9	30.57	776.5	—16.6	—27.0	89	nw.			0		2			0	0	
29	29.12	739.7	31.02	788.0	— 6.5	—21.4	84	calm			2		8			0.106	2.7	
30	29.16	740.7	31.07	789.2	— 8.0	—22.2	83	calm			0		10			0	0	
31	29.03	737.4	30.96	786.4	—15.5	—26.4	81	calm			0		2			0	0	
Mean	28.86	732.9	30.79	782.0	—17.9	—27.7	85.5						0			0	0	
1883.													4			0.106	2.7	
January 1	28.74	730.0	30.64	778.3	—12.1	—24.5	89	calm			0		0			0	0	
2	28.76	730.4	30.63	778.0	— 5.8	—21.0	89	calm			0		8			0.114	2.9	
3	28.98	736.2	30.84	783.4	1.2	—17.1	95	calm			0		0			0	0	
4	28.59	726.1	30.39	771.9	9.1	—12.7	90	se.			3		10			0	0	
5	28.85	732.9	30.67	779.0	9.9	—12.3	86	calm			0		9			0.079	2.0	
6	28.67	728.1	30.46	773.6	12.6	—10.8	91	ne.			2		0			0	0	
7	28.46	722.8	30.25	768.3	9.3	—12.6	92	calm			0		9			0.012	0.3	

NOTE.—The above observations, taken at 7 a. m., Washington time, were received too late for publication in the DAILY BULLETIN, and are given here in full from date of last published report (July 31, 1882). For continuation of this station, see Russian series, DAILY BULLETIN.

REVIEW.

INTERNATIONAL METEOROLOGY.

[*Pressure expressed in inches and millimetres; temperature in degrees, Fahrenheit and Centigrade; wind-force by scale of 0-10.*]

The following description refers to chart ii. for the month of February, 1883, issued with this SUMMARY. This chart continues the series of international charts begun in January, 1877, and exhibits the mean pressure, mean temperature, and prevailing wind-direction over the northern hemisphere, as determined from one observation taken simultaneously each day at 7 a. m. Washington, or 0 h. 8 m. p. m., Greenwich, mean time:

For the month of February, 1883, two areas of barometric minima are shown on the chart. The first of these occupies the Arctic ocean between Greenland and Iceland, and is indicated by the isobar for 29.1 (739.1); the second area of low-pressures is in British India, and is enclosed by the isobar for 29.9 (759.4). To the southward and eastward of the region of absolute minima, the barometric gradient rapidly increases, until the isobar for 30.0 (762.0) is reached. That isobar extends from the Gulf of Saint Lawrence southeastward to the forty-second parallel and thence northeastward over the southern part of Great Britain to Scandinavia. The areas of barometric maxima are indicated by the isobaric lines for 30.4 (772.1) and 30.3 (769.6), respectively. The first of these occupies central Asia and extends as a ridge of high-pressures from the Gulf of Pe-Che-Li westward to the central part of European Russia; the highest mean reported is 30.46 (773.7) at Semipalatinsk. The second area of high-pressures is exhibited in the United States, and extends from the Northwest Territories of British America southeastward to Arkansas and thence eastward to the Atlantic ocean; over this region the pressure ranged from 30.3 (769.6) to 30.35 (770.9). In other parts of the United States and Canada it ranged from 30.1 (764.5) to 30.25 (768.3). A third area of high-pressures, 30.3 (769.6), occupies the central part of the Iberian peninsula. Over the Atlantic ocean, between N. 20° and 40°, the mean atmospheric pressure ranges from 30.0 (762.0) to 30.28 (769.1); in Europe it ranges from 30.0 (762.0) in the northern, to 30.25 (768.3) in the southern, and 30.35 (770.9) in the eastern, sections.

Compared with the chart for the preceding month, there has been no material change in the position of the area of absolute minima; the pressure at the centre has, however, decreased about .1 inch, the mean at Stykkisholm, Iceland, being now 29.02 (731.1). In the United States and Canada there has been a general increase of pressure, except on the Pacific coast, where it is slightly below that of the preceding month. Over the Atlantic ocean, north of the fifty-fifth parallel, the pressure has decreased slightly; to the southward of that latitude it has increased somewhat. Throughout the continent of Europe and over the British Isles there has been an increase of pressure, averaging .15 inch. In the northern and eastern parts of Asia the pressure has decreased, while in the central and western sections an increase is shown. In British India the mean pressure is .06 inch lower than in the preceding month.

Compared with the corresponding month of previous years, the mean atmospheric pressure for February, 1883, was above the normal over the United States and Canada, the departure being greatest in the Mississippi and Missouri valleys. In Europe the pressure was everywhere above the normal.

The following table gives the mean pressure and mean temperature, with corresponding departures, for February, 1883, in the several countries of the eastern hemisphere, compared with the means as determined from observations taken during the last six years:

Countries.	Mean pressure.			Mean temperature.		
	Feb. mean of 6 (1877-'82) years.	Feb., 1883.	Departure.	Feb. mean of 6 (1877-'82) years.	Feb., 1883.	Departure.
				°	°	°
Algeria	30.16	30.27	+ 0.11	58.5	59.4	+ 0.9
Austria	30.04	30.26	+ 0.22	37.7	37.7	normal
British Isles	29.86	30.00	+ 0.14	43.0	45.8	+ 2.8
Denmark	29.84	30.10	+ 0.26	34.1	34.9	+ 0.8
France	30.07	30.24	+ 0.17	46.7	47.9	+ 1.2
Germany	29.96	30.23	+ 0.27	37.3	39.6	+ 2.3
India*	29.94	29.94	normal	74.7	74.8	+ 0.1
Italy	30.04	30.21	+ 0.17	50.5	50.5	normal
Norway	29.70	29.95	+ 0.25	31.7	35.2	+ 3.5
Portugal	30.19	30.28	+ 0.09	55.1	55.0	— 0.1
Russia	29.99	30.29	+ 0.30	26.5	23.8	— 2.7
Spain	30.12	30.27	+ 0.15	55.2	53.0	— 2.2
Sweden	29.77	30.08	+ 0.31	24.2	28.4	+ 4.2

* Mean for five years only.

The accompanying table shows the deviations in pressure and temperature at isolated stations during the month of February, 1883, as compared with the means for six years:

Stations.	Mean pressure.			Mean temperature.		
	Feb. mean of 6 (1877-'82) years.	Feb., 1883.	Departure.	Feb. mean of 6 (1877-'82) years.	Feb., 1883.	Departure.
				°	°	°
Gibraltar	30.17	30.27	+ 0.10	60.3	61.6	+ 1.3
Malta, Mediterranean Sea	30.04	30.15	+ 0.11	58.7	58.6	— 0.1
Sandwick Manse, Orkney Islands	29.71	29.71	normal	40.3	41.5	+ 1.2
Bridgetown, Barbadoes	30.01	30.02	+ 0.01	80.0	80.7	+ 0.7
Cape Town, Cape Good Hope	29.99	.....	.....	79.8	.....	.....
Fort Napier, Natal, South Africa	29.82	29.78	— 0.04	78.4	80.6	+ 2.2
Freetown, Sierra Leone	29.84	29.86	+ 0.02	81.5	86.5	+ 5.0
Mauritius, Indian Ocean	29.92	29.87	— 0.05	81.1	81.0	— 0.1
Melbourne, New South Wales	30.01	29.85	— 0.16	64.2	64.6	+ 0.4
Nassau, Bahamas *	30.15	30.22	+ 0.07	71.2	74.3	+ 3.1
Godthaab, Greenland	29.55	29.21	— 0.34	14.1	3.7	—10.4
Stykkisholm, Iceland	29.52	29.02	— 0.50	27.7	30.9	+ 3.2
Thorshavn, Färöe Islands	29.65	29.55	— 0.10	39.2	41.2	+ 2.0
Zi-Ka-Wei, China	30.32	30.34	+ 0.02	38.8	37.2	— 1.6
Athens, Greece	30.06	30.15	+ 0.09	53.6	50.5	— 3.1
Cagliari, Sardinia, Italy	30.02	30.14	+ 0.12	50.9	57.2	+ 6.3
Tokei, Japan *	30.10	30.17	+ 0.07	40.0	35.1	— 4.9
Angra, Azores	.....	30.23	.....	57.8	57.0	— 0.8
Funchal, Madeira Islands	30.24	30.29	+ 0.05	64.7	63.7	— 1.0
Ponta Delgado, Azores	30.20	30.28	+ 0.08	60.3	59.4	— 0.9
Archangel, Russia	29.72	30.07	+ 0.35	11.0	19.9	+ 8.9
Tiflis, Russia	30.10	30.29	+ 0.19	43.0	38.3	— 4.7
Astrakhan, Russia	30.12	30.40	+ 0.28	26.3	25.0	— 1.3
Ekaterinburg, Russia	29.98	30.26	+ 0.28	11.2	13.8	+ 2.6
Tashkend, Toorkistan, Asia	30.30	30.42	+ 0.12	37.5	23.7	—13.8
Barnaul, Siberia, Asia	30.31	30.38	+ 0.07	5.1	3.0	— 2.1
Yeniseisk, Siberia, Asia	30.29	30.34	+ 0.05	2.3	— 5.8	— 8.1
Pekin, China	30.35	30.38	+ 0.03	28.1	29.3	+ 1.2
Nikolaevsk on the Amoor, Asia	.....	.....	.....	— 4.4	— 7.1	— 2.7
San Juan de Puerto Rico, W. I*	30.08	30.13	+ 0.05	74.3	75.0	+ 0.7
Beirut, Turkey in Asia	30.04	30.01	— 0.03	60.4	59.7	— 0.7
Mexico, Mexico	30.25	30.28	+ 0.03	46.4	48.7	+ 2.3
Havana, Cuba, W. I	30.08	30.12	+ 0.04	71.0	69.7	— 1.3
Paramaribo, D. Guiana, S. A	30.02	30.02	normal	78.9	76.7	— 2.2
York Factory, B. A	30.07	30.17	+ 0.10	—21.8	—23.3	— 1.5

* Mean for five years only.

The following are some of the extreme mean temperatures reported at isolated stations:

Highest.	Fahr.	Cent.	Lowest.	Fahr.	Cent.
	°	°		°	°
Freetown, Africa	86.5	30.3	York Factory, B. A	—23.3	—30.7
Springbok, Fontein, S. Africa	83.9	28.8	Ooglaamie, Alaska	— 9.2	—22.9
Saint Paul de Loando, W. Africa	82.7	28.3	Upernavik, Greenland	— 7.6	—22.0
Mauritius, Indian Ocean	81.0	27.2	Nikolaevsk on the Amoor	— 7.1	—21.7
Bridgetown, Barbadoes	80.7	27.1	Yeniseisk, Siberia	— 5.8	—21.0

The mean temperature of the air in the United States was above the normal in the Atlantic and Gulf states; elsewhere it was below the normal, the greatest deficiency occurring in the middle slope and northern plateau regions, where it was 12° and 16°, respectively. In Canada the temperature was below the normal. In Europe the mean temperature of the air was normal, or slightly below, in the southern peninsulas; elsewhere it was above the normal, presenting the unusual

phenomenon of abnormally high temperatures in connection with abnormally high-pressures. In British India the temperature was 0°.1 above the five years' mean. The highest mean temperature reported was 88°.7 Fahr. (31°.5 Cent.) at Bellary, and the lowest was 63°.9 Fahr. (17°.7 Cent.) at Sibsagar.

In the United States the prevailing winds were generally northerly, northwesterly, and westerly; on the coast of the Carolinas they were northeasterly. In Canada they were mostly westerly. Over the north Atlantic ocean the winds were mostly northerly and northwesterly between N. 30° and 60°, and from W. 75° eastward to W. 30°; from W. 30° eastward to the European coasts they were southwesterly. In Europe the winds were mostly southwesterly in the western, and southerly to southeasterly in the eastern, parts of the continent. On the coast of China and in Japan they were mostly northerly.

The rainfall during February, 1883, was above the average in that part of the United States north of N. 35° and from the Rocky mountains eastward to the Atlantic. In the south Atlantic and Gulf states, and in the districts west of the Rocky mountains, the precipitation was less than the average, the deficiency on the Pacific coast being very marked. In Canada the rainfall was above the average, except in the maritime provinces, where it was slightly below. In Europe it was generally below the average, except in the British Isles, where it was in excess.

With this REVIEW is issued international chart iii. for the month of October, 1881. This chart continues the series of international charts begun in November, 1877, and exhibits the paths of the principal atmospheric depressions that have appeared in the northern hemisphere. The data are charted for each day of the month on the maps accompanying each issue of the "International Bulletin," and from these charts and additional data are traced the movements of the centres of barometric minima.

The paths of twenty-nine depressions which appeared during October, 1881, have thus been traced; in addition are also shown the paths of three typhoons which occurred in the China sea during the month. The tracks of these last are copied from Mr. Marc Dechevrens' "Typhoons of 1881."

The depressions charted are distributed as follows: Seven are traced in the United States and Canada; one in the Hudson bay region, and one in Alaska and the Northwest Territories of British America, the latter being a continuation of a disturbance which originated in eastern Asia. Seven depressions are traced over the Atlantic ocean; three of these are continuations of storms which developed in the United States; one, number xxv., was apparently of tropical origin, and the remaining three were first observed near the coasts of Newfoundland and Labrador. Two depressions are charted in Greenland, in which region the atmospheric pressure remained low during the first half of the month. In Europe fifteen depressions are traced, six of which entered the continent from the ocean. Three disturbances are shown in western Siberia, one of these, number xxii., is a continuation of the depression charted as number ii., and is traced from the western part of the United States. One depression appears over the Sea of Okhotsk, and is traced thence eastward over the Pacific ocean to Alaska and British North America.

In the United States and Canada the depressions pursued, in general, an east-northeasterly course; over the Atlantic the movement of the various storm-centres appears to have been sluggish and their paths somewhat erratic. In Europe a majority of the disturbances are traced in the southern districts, and have moved in a southeasterly direction; the few depressions traced in northern Europe have pursued a northeasterly course, with one exception, number xxviii., which moved from north to south. The most violent storms of the month were numbers xviii. and xxiii.; the former passed over the British Isles and northern Europe between the 13th and 15th, and, on account of the great loss of life and immense damage to shipping and other property which resulted from it, ranks as one of the most severe storms on record. Number xxiii. moved in a southeasterly direction from the 22d to 24th, and was scarcely less severe than its predecessor of the 13–15th. A noteworthy feature of the month was the unusual number of depressions which traversed southern Europe.

The following descriptions refer to the depressions traced in the United States and Canada:

I.—During the 9th there was a steady decrease of pressure at stations in California, and by the 10th the barometer had fallen to 29.8 (756.9), with cloudy weather, but no rain. During the 10th the disturbance moved rapidly eastward, and on the 11th it reached Dakota, its central region being enclosed by the isobar for 29.8 (756.9). Moving by an east-northeasterly course over Minnesota, Wisconsin, and Michigan, the disturbance, on the 12th, occupied Lakes Huron and Michigan, and was attended by abundant rains and high winds on the lakes and at stations to the eastward of the centre. During the 12th the depression moved down the Saint Lawrence valley, causing general rains during its passage. On reaching the Gulf a further decrease of pressure appears to have occurred, and as the disturbance moved to the northeastward of Newfoundland it caused moderate sw. to nw. gales and squally weather over the Gulf of Saint Lawrence. On the 14th the depression was shown to the northeastward of Newfoundland, attended by rainy weather and moderate gales in the southeast quadrant. This depression is hereafter described as number xix.

II.—Slowly decreasing pressure during the 13th and 14th in Utah, Colorado, and Kansas indicated the development of this depression, which, by the 15th, had moved in a northeasterly direction to the lake region. High winds to moderate gales and rain prevailed at stations on the lakes, and continued at stations in the Saint Lawrence valley during the passage of the disturbance towards the Gulf. This depression passed eastward over the ocean, and is hereafter described as low area xxii.

III.—This was a slight disturbance which developed in Kansas during the 16th; it moved northeastward and on the 17th was central near Davenport, Iowa, where the barometer read 29.96 (761.0); heavy rain. The rain and cloud-areas extended over the lake region, and as the disturbance moved eastward to New England it caused moderate easterly gales on Lake Ontario. Strong northwesterly gales occurred on the lakes as a result of the rapid increase of pressure which took place immediately after the passage of the depression. On the 18th the disturbance occupied New England and the lower Saint Lawrence valley; during the day it passed into the Atlantic, and on the 19th was central south of Nova Scotia, attended by rainy weather in the maritime provinces and snow to the eastward. H. M. S. "Fantome," which left Notre Dame bay, Newfoundland, on the 18th, with a schooner in tow, encountered on the 19th a heavy ene. gale and furious snow storm, during which the hawser parted and she lost the schooner. The "Fantome" was then put to sea and occupied three days in steaming one hundred and seventy-five miles through a heavy snow storm. By the 20th the disturbance had filled up or become merged in low area xxii.

IV.—This was a slight depression which appeared in the Lake Superior region on the 19th; it moved eastward, causing light rains in the upper lake region and Ontario, and dissipated on the 20th, in the province of Quebec.

V.—On the 20th the barometer at York Factory, British America, read 29.31 (744.5), being a fall of .43 inch since the observation of the 19th. On the 21st the shifting of the wind, followed by rising barometer at York Factory, indicated that the centre had passed to the eastward over Hudson Bay and beyond the field of observation.

VI.—During the 22d there was a decrease of pressure in Texas and Indian Territory, and by the 23d the decrease had extended eastward and northward to Mississippi and Missouri, causing rainy weather during the 22d and 23d in the districts named. During the latter date the depression moved northeastward and was central in Illinois on the 24th, the region of

least pressure being enclosed by the isobar for 29.8 (756.9). Rainy weather prevailed in the lower lake region, but the winds remained moderate in force. Continuing its northeasterly movement the disturbance appeared on the 25th in Ontario, where it was joined by low area vii., which had advanced from the northwest. During the day the combined system moved east-northeastward, and on the 26th it was central as a storm of considerable energy over the Gulf of Saint Lawrence, with the pressure below 29.0 (736.6) at the centre. Steep gradients were formed over the ocean between W. 40° and 50°, and fresh to strong southerly gales were reported by vessels in that region, while equally strong northwesterly gales occurred in rear of the depression and along the coasts of the United States. During the 26th the disturbance moved over Newfoundland, and on the 27th it was central, with undiminished energy, northeast of that island. This storm is hereafter described as low area xxvii.

VII.—This depression appeared in Manitoba on the 24th, when the preceding depression (vi.) was in Illinois. It moved east-southeastward over the lake region and united with low area vi. in Ontario on the 25th.

VIII.—On the 27th a barometric trough extended from Manitoba to Texas, the pressure being least in Kansas, where the barometer read 29.66 (753.4). During the day the disturbance moved slowly northeastward, and on the 28th it was central in Nebraska, the barometer at Omaha reading 29.53 (750.0). Cloudy and rainy weather prevailed at stations to the northeastward and eastward of the centre, but no high winds were reported on the 28th. By the following day the storm-centre had reached the Lake Superior region, the central pressure being now about 29.4 (746.7). Rainy weather continued over the lake region, and, owing to the increase of the barometric gradient in the northeast quadrant, the wind attained the force of a strong breeze (25 to 30 miles) over the lakes. On the 30th the disturbance was north of Lake Superior; it moved thence eastward over northern Canada to the mouth of the Saint Lawrence, where it was central on the 31st, attended by general rains in the maritime provinces and the lower Saint Lawrence valley.

The following refer to the depressions traced over the Atlantic ocean and in Europe:

IX.—This depression occupied the Italian peninsula on the 1st, the lowest reported barometric reading being 29.83 (757.7) at Rome. Cloudy and rainy weather prevailed over the peninsula and at stations on the shores of the Gulf of Venice. On the 2d the depression occupied the Adriatic, and on the 3d it entered Austro-Hungary, where it apparently dissipated.

X.—This was probably identical with a disturbance which at the close of September was near the northern coast of Norway. By October 1st it had reached the Baltic Provinces of Russia—pressure at Saint Petersburg, 29.93 (760.1). The disturbance moved southeastward, with decreasing pressure at the centre, and on the 2d it was shown near Kasan, where the barometer read 29.78 (756.5), wind sw., light rain. It continued its southeasterly movement and filled up during the 3d.

XI.—This depression occupied the basin of the Mediterranean on the 4th. On the 5th the pressure was least in Sardinia. During the 6th and 7th the disturbance moved slowly southeastward, with gradually increasing pressure, and finally disappeared on the last-mentioned date.

XII.—A secondary disturbance appeared near Newfoundland on the 4th; it remained stationary on the 5th, the pressure having decreased to 29.32 (744.7) near the Straits of Belle Isle. On the 6th the disturbance moved north-northeastward, and on the 7th it apparently merged with a large and deep depression which had occupied southern Greenland during the first week of the month. During the 5th and 6th an area of high-pressures occupied the eastern part of the United States and Canada; in consequence of this distribution of pressure strong northwesterly gales were experienced by vessels near the coasts of the United States, and equally strong westerly and southwesterly gales were reported on the Banks and to the eastward. The heavy north and northwest gales which occurred on the coast of Labrador on the 5th, and which caused great damage to shipping, were due to the existence of this depression.

XIII.—This depression appeared in western Siberia on the 5th, and on the 6th it was central near Akmolinski, where the barometer read 29.41 (747.1), wind sw., 56 miles an hour. During the day the storm-centre moved northeastward, and on the 7th it was shown near Yeniseisk, barometer 29.52 (749.9), wind sw., 9 miles. By the following day the disturbance had passed beyond the range of the observations.

XIV.—On the 7th there was a decrease of pressure in southern Spain and in Algeria; on the 8th the circulation of the winds at stations on the eastern coast of Spain and in Algeria indicated that the centre of disturbance was over the Mediterranean, and probably near the Balearic Isles. On the 9th and 10th the area of low barometer was in Sardinia and central Italy, with a secondary disturbance in Sicily. On the 11th the depressions united and moved over Greece and Turkey, the barometric readings within the area of disturbance ranging from 29.72 (754.9) to 29.8 (756.9). On the 12th the centre was over the Ægean sea; thence it moved northeastward over the Black sea, and finally dissipated in southern Russia during the 14th.

XV.—From the 1st to 7th the barometric readings at Godthaab, Greenland, ranged from 29.04 (737.6) to 29.35 (745.5), and during that time south and southeast gales of force 7–8, with rainy weather, prevailed in Iceland, and strong west and southwest gales were reported over the ocean north of the fiftieth parallel. During the period mentioned (1st to 7th) an area of high-pressures, 30.4 (772.1) to 30.6 (777.2), occupied northern and western Europe, while another high area—30.4 (772.1)—prevailed over the Azores. During the 7th and 8th the high area of northern Europe began to give way, and a rapid decrease of pressure occurred over northern Scandinavia in advance of the deep depression near Iceland, which had now begun to move eastward. On the 9th the disturbance was between Iceland and the Färöe islands; on the 10th it was central in Scandinavia, the pressure having decreased to 28.95 (735.3) near the centre. Strong westerly gales prevailed over Denmark and at stations on the shores of the Baltic, while southerly and southwesterly winds prevailed over the Gulf of Bothnia. On the 11th the disturbance passed northward into the Arctic, and when last observed the pressure was 28.6 (726.4) at Gjæsver, Finmark. Cloudy and rainy weather prevailed over the British Isles and northern Europe during the passage of the depression.

XVI.—This depression appeared over southern England and northern France on the 8th, the pressure at the centre being about 30.05 (763.3). It moved northeastward, with rapidly decreasing pressure, and on the 9th its centre was off the western coast of Denmark, where the pressure was 29.52 (749.8). During the day it moved northward and merged in low area xv, which then occupied Scandinavia.

XVII.—During the 8th the atmospheric pressure decreased rapidly over Newfoundland and the Gulf of Saint Lawrence, and on the 9th a depression appeared near Labrador. It moved rapidly northeastward at a high latitude, this movement being probably due to the area of high-pressures which occupied the ocean from 30° northward to 55°, north latitude. On the 10th the centre was south of Iceland; barometer at Stykkisholm, 29.1 (739.1), wind se. and e., force 4, raining. On the 11th the disturbance appeared near the Färöe islands, the pressure having decreased to 28.38 (720.8) at Thorshavn. Steep gradients were formed over the British Isles and the North sea; strong westerly gales prevailed over the former, and were especially heavy in the northern part of the kingdom, while moderate to strong se. gales occurred over the latter region. On the 12th the centre of disturbance was off the Norwegian coast; the wind at Thorshavn shifted to nw., and the moderate to strong westerly and northwesterly gales continued in the British Isles, with rainy weather and falling

temperature. To the eastward of the centre southerly winds and rising temperature prevailed. The depression moved slowly north-northeastward on the 13th and 14th, and passed into the Arctic on the latter date.

XVIII. and XVIII *a*.—These depressions united during the 12th, and from them was developed the disastrous storm which swept over the British Isles and northern Europe a few days later. On the 10th a barometric trough existed over the Gulf of Saint Lawrence and the maritime provinces, the pressure being least near Prince Edward island. By the following day the pressure over the maritime provinces and the Gulf had increased to 30.2 (767.1), while the region of low-pressures (xviii. *a*) was transferred to about N. 50°, W. 45°, where the barometer read 29.96 (761.0). At the same time the circulation of the winds, as shown by vessel-reports near N. 42°, W. 55°, indicated the development of another disturbance in that region. An area of high-pressures, 30.2 (767.1), occupied the eastern part of the United States and Canada, and stretched eastward to the sixtieth meridian. Another high area existed over the Azores, and extended westward to the fiftieth meridian. Over the region situated between the above-mentioned high areas the pressure ranged from 30.0 (762.0) to 30.1 (764.5). By the 12th the area of low-pressures had moved slowly northeastward, and was now shown near N. 49°, W. 45°, where the pressure was from 29.92 (760.0) to 30.05 (763.3). The high area of the Azores had become contracted and now extended only to the fortieth meridian, while that of the United States had advanced to about W. 55°. During the 12th the disturbance appears to have moved quickly northeastward, causing a decrease of about .2 inch in the pressure over the Azores. Meanwhile, the pressure was rapidly decreasing at the centre of disturbance, and on the 13th the isobar for 29.4 (746.7) indicated the centre, in about N. 55°, W. 20°. Prior to the 13th the pressure at the centre varied between 30.0 (762.0) and 29.9 (759.4), and the winds remained moderate in force, but as the pressure decreased they attained, on the 13th, the force of a moderate to strong gale in all quadrants of the depression. On the 13th westerly and northwesterly winds prevailed in the northern and eastern parts of Great Britain, which were under the influence of low area xvii., then central off the Norwegian coast, while in Ireland and at western and southwestern stations in England, the winds changed to southerly and southwesterly. On the 14th the storm-centre was over the North sea; it was there that the storm exhibited its maximum violence, and caused such immense loss of life and property. On that day the atmospheric pressure at the centre of disturbance decreased to 28.5 (723.9), and very heavy rain fell in the British Isles and western Europe. In France and along the eastern shores of the North sea the pressure ranged from 29.3 (744.2) to 29.8 (756.9), so that between those districts and the centre of disturbance exceedingly steep gradients were formed. In Ireland and southwestern England the winds changed to northwesterly; in the southeastern counties of England they were southwesterly, and in Scotland, northerly, blowing with the force of a heavy gale in all districts. Over the eastern part of the North sea and along the European coast from northern France northeastward to Denmark, furious ssw. to sw. gales prevailed, causing much damage. Vessels were capsized in the harbors; the rivers rose above their ordinary level and, in some instances, flooded the adjacent districts; telegraph lines were prostrated and all communication was interrupted. In a paper by Mr. Charles Harding, F. M. S., published in the "Quarterly Journal of the Meteorological Society," the losses and casualties (vessels abandoned, foundered, stranded, dismasted, etc.,) reported at Lloyd's as having occurred on the coasts of the British Isles during the prevalence of this gale, are given as no less than two hundred and five vessels, with a loss of sixty-six lives. The published "Weekly Wreck Returns" for the second week in October showed the number of vessels lost off the coasts of the United Kingdom to be eighty-five, the number of lives lost or missing being one hundred and thirty-eight. In addition, the storm caused great damage to property and loss of life among the fishing population between the Forth and the Tweed, from fifty to sixty fishing boats being reported missing. On land the storm was equally severe; forty-six persons were killed and about forty sustained severe injuries, and in all parts of the kingdom, chimney-stacks, roofs, and walls were blown down; telegraph lines prostrated, and thousands of the finest and strongest trees were leveled with the ground. The gale was very destructive in the Netherlands; in fact, very few places in Great Britain or along the eastern shores of the North sea escaped without suffering more or less damage. It is estimated that 43,000 tons of produce, including 20,464 tons of coal, were lost at sea during this gale, and the loss to shipping property represented a money value of from $20,000,000 to $25,000,000. By the morning of the 15th the centre of the disturbance was on the eastern coast of southern Sweden, where the pressure was 28.7 (729.0). The wind at stations in Denmark, Germany, and the Netherlands had now changed to the westward, and blew with the force of a heavy gale; at Neufahrwasser, Memel, and other German ports on the shores of the Baltic, southwesterly to south-southwesterly winds of force 8 to 9 prevailed, with easterly gales over the Gulf of Bothnia, and moderate to strong northerly winds in southern Norway. By the 16th the pressure had increased to 29.4 (746.7), but was still lowest over the Baltic and the Gulf of Finland. The winds over the Gulf of Bothnia had changed to northerly and continued to blow with undiminished force, but to the southward they had decreased in violence. On the morning of the 17th the pressure was least in Finland, where it was about 30.0 (762.0), and increasing. An area of high-pressures now occupied central and western Europe, and was spreading northward, and by the 18th the region of greatest pressure occupied Scandinavia and Finland, while another area of high-pressures was shown in northeastern Russia and Siberia.

XIX.—This was a continuation of the depression first traced as i., and described above. On the 14th the disturbance was shown to the northeastward of Newfoundland, attended by moderate to fresh gales; on the 15th the centre was near N. 52°, W. 35°; vessels between W. 32° and 25° had sse. to se. winds of force 5 to 7, with cloudy or rainy weather, and pressure ranging from 29.65 (753.1) to 29.95 (760.7), while those between W. 37° and W. 50°, had northwesterly breezes of force 2 to 7. During the day the storm-centre moved slightly south of east to about N. 50°, W. 25°, where it appeared on the morning of the 16th; the s. s. "Köln," T. Jüngst, commanding, reported, in N. 49° 23′, W. 25° 33′, barometer 29.35 (745.5), wind n., force 5, raining; while the s. s. "Rhynland," W. G. Randle, commanding, in N. 49° 22′, W. 22° 37′, had barometer 29.48 (748.8), wind sse., force 6, stormy weather. On the 17th the disturbance was apparently central between W. 25° and 20° and near the fiftieth parallel. Moderate to strong south-southwesterly to south-southeasterly gales were reported from W. 20° eastward, with moderate to strong northeast to northwest breezes and squally weather between N. 50° and 55°, and W. 28° and 35°. During the 18th and 19th the disturbance moved southeastward over the Bay of Biscay. On the 20th the depression was in southern France, followed by slight disturbances which appear to have been offshoots from low area xxii., then central as a very severe storm over mid-ocean. On the 21st the disturbance reached northern Italy, the pressure having decreased to 29.6 (751.8). Higher temperature and general rains accompanied the passage of the depression over France and Italy. During the 21st and 22d it moved eastward over Austro-Hungary, attended by increasing pressure, and on the 23d it disappeared in the Caucasus mountains.

XX.—Between the 14th and 17th the atmospheric pressure over southern Greenland ranged from 28.93 (734.8) to 29.19 (741.4). On the last-mentioned date the shifting of the wind and rapid fall in the barometer at Stykkisholm, Iceland, indicated that the disturbance was passing to the northward of

that island. At the same time a depression, which had moved from the Gulf of Saint Lawrence, developed great energy when south of Greenland, and caused stormy weather over mid-ocean.

XXI.—This disturbance appeared in northern Italy on the 15th; it moved slowly southeastward during the day, and on the 16th the centre was over the Adriatic, causing strong ne. winds at stations on the northern and western shores of that sea. The course of the disturbance appears to have changed to the northeastward during the day, and by the 17th the depression had filled up in Austro-Hungary.

XXII.—This was a continuation of the disturbance described as number ii. of this REVIEW, and was noteworthy on account of its violence over the ocean and on the coasts of the British Isles. During the 15th and 16th it passed over the Gulf of Saint Lawrence, attended by moderate to strong gales and heavy rain. During the 16th it began to exhibit increased energy, and by the 17th the barometric readings near the centre were below 29.0 (736.6). The following reports indicate the severity of the storm: on the 16th, the bark "Fawn" had a heavy nne. to ssw. gale; carried away yards and sails, stove bulwarks, forward house and cabin-doors, and shifted cargo. From the 16th to 21st the ship was under bare poles. The bark "Cherokee" appears to have encountered first the gales produced by low area xix., and then again those of low area xxii. on the 19th and 20th. This vessel reported on the 16th, in N. 48° 20′, W. 41°, heavy sw. gale, changing to wnw. hurricane, which lasted until afternoon of the 19th. On the morning of the 20th (position not given), the barometer suddenly fell from 29.6 (751.8) to 28.4 (721.3), (correction unknown); hurricane beginning again at sse. and backing to nne.; ship under bare poles, lost one boat and stove bulwarks. On the 17th, Captain P. J. Irving, commanding the s. s. "Republic," in N. 48° 07′, W. 42° 44′, reported barometer 28.97 (735.8), wind wnw., 9; vessels to the westward of the forty-second meridian reported violent nw. gales, while strong southerly gales prevailed near W. 35°. On the 18th the storm-centre was near N. 54°, W. 35°; Captain Luckhurst, commanding the s. s. "Thames," reported in N. 55° 05′, W. 33° 58′, barometer 28.8 (731.5), wind e., force 6. On this date vessels between N. 50° and 45°, and W. 35° and 50°, reported nw. gales of hurricane force. Steep gradients were formed to the westward of the depression, the pressure having increased to 30.2 (767.1) over Newfoundland and eastward to the fiftieth meridian. On the 18th the s. s. "Devonia," in N. 51° 13′, W. 36° 00′, had a strong s. breeze, increasing to hurricane, with terrific sea; s. s. "The Queen," in N. 48° 57′, W. 31° 56′, strong ssw. gale, cloudy; s. s. "Elbe," in N. 50° 27′, W. 25° 30′, heavy sse. gale and high sea. The s. s. "Suevia," in N. 46° 47′, W. 35° 40′, had terrific w. to nw. storm, with very high sea, and the s. s. "Nederland," in N. 48° 01′, W. 46° 48′, reported heavy nnw. gale, high sea, and violent hail squalls. The s. s. "Hibernian," which arrived at Halifax, Nova Scotia, on the 21st, reported having passed through one of the most furious gales ever experienced in the Atlantic. On the 18th (no position given), the barometer remained at 28.4 (721.3) for twenty-four hours; the steamer sustained much damage. On the 19th the storm-centre was near N. 58°, W. 32°, the winds near the immediate centre being light, but those in the southwest and northwest quadrants blowing with hurricane force. During the day the depression appears to have moved abruptly southeastward, this change in direction being probably due to the rapid extension westward of an area of high-pressure, 30.6 (777.2), whose centre was then in northern Scandinavia. On the 20th the region of least pressure was between N. 45° and 50° and W. 25° and 20°; strong southeast to east gales prevailed on, and to the northward of, the forty-ninth parallel, and between W. 20° and 10°, with heavy nne. to nw. gales to the southwestward, and westerly breezes in the Azores. The bark "Europa," in N. 46°, W. 31°, reported barometer 28.65 (727.7), nne. hurricane, lasting eight hours; lost and split sails, etc. Bark "Lewis Smith," in N. 44° 30′, W. 37°, had a nne. hurricane, lasting twelve hours, during which she lost foremast and jib-boom, broke stanchions, etc., and lay on her beam-ends for twenty-four hours. The barkentine "Bend Or" foundered in N. 49° 10′, W. 37° 30′, having withstood the gale for three days. The disturbance moved slowly eastward on the 21st, and its influence extended to the British Isles and western Europe, where rainy weather with rising temperature prevailed. On the 21st the ship "Knight Companion" had a heavy s. gale in N. 49° 40′, W. 10° 20′, shifted cargo, and sustained other damage. On the 22d and 23d the storm-centre lay to the southwestward of Ireland, at no great distance from the coast; very strong gales now prevailed in all quadrants of the disturbance, the centre of which was now enclosed by the isobar for 28.8 (731.5). Many vessels were driven ashore or foundered on the British coasts, and the loss of life was very great; the s. s. "Clan Macduff" was wrecked off the Welsh coast during this gale. The disturbance moved southeastward over France to Italy, where it appeared on the 24th, the pressure having increased to 29.55 (750.6); it was apparently forced in that direction by the area of high-pressures which still prevailed in northern Europe. After the disturbance passed to the eastward of the coast line, the slight increase of pressure which occurred was again checked by the approach of low area xxv., which had advanced to about N. 51°, W. 22°, by the 24th. The chart for the 25th showed low area xxii. to be central in Austro-Hungary, where the pressure ranged from 29.37 (746.0) to 29.5 (749.3). On the 25th the anticyclone over northern Europe began to move westward towards Iceland, and the depression in the south then took up a northeasterly direction and passed into Russia, where it was central, near Moscow, on the 26th, barometer at that station reading 29.37 (746.0), wind nw., light snow. On the same date there was a sw. gale of 45 miles an hour at Lugan, barometer 29.49 (749.1). On the 27th the storm-centre was in the Ural region, barometer at Ekaterinburg 29.03 (737.3), wind sw., 27 miles an hour. On the 28th the disturbance passed into central Asia and beyond the field of observation.

XXIII.—This was a slight disturbance which appeared in the Bay of Biscay on the 18th; on the 19th it was central in southern France, barometer at Lescar 29.69 (754.2), wind w., force 3; easterly and northeasterly winds prevailed at stations to the northward. On the 20th this depression was probably merged in low area xix.

XXIV.—This depression developed in the Black sea region on the 19th, and by the 20th the barometer had fallen to 29.59 (751.6) at Nikolaiev. During the 21st and 22d the disturbance moved north-northeastward and disappeared on the last-mentioned date.

XXV.—This disturbance was of tropical or sub-tropical origin, and was probably formed prior to the 20th. The earliest vessel-reports relative thereto are the following: on the 20th the bark "Hosea Rich," in N. 23° 45′, W. 62° 30′, took the southwest quarter of a cyclone; blowing with great violence for a few hours; vessel lost and split several sails. The bark "Neptun," in N. 25°, W. 60°, on the same date, reported a cyclone which began at e. and backed to nne., lasting but a short time, when it died to a calm for a few minutes, then sprang up again from w., veered to sw., and blew very hard for twenty-four hours; vessel lost trysails and split several others, barometer 28.18? (715.8?). On the 21st the bark "Pilgrim," in N. 27°, W. 62°, encountered a furious hurricane lasting eight hours, during which the vessel lay with her lee deadeyes in the water, filling her decks up to the weather side of the main hatch; every sail bent was blown out of the gaskets; main-topgallant yard was broken, and much running gear was carried away. In two hours the barometer fell from 30.0 (762.0) to 28.8 (731.5); the captain reported the wind as being the strongest he had experienced in twenty-seven years. Vessels on the fortieth parallel had strong northeasterly gales. On the 22d the storm-centre, having moved to the northeastward, was near N. 38°, W. 52°, and was enclosed by the isobar for 29.6 (751.8); the ship "St. John," in N. 38°,

W. 54°, had a se. to ne. hurricane, lasting twenty hours, during which she lost and split sails; and the whaling steamer "Lucretia," in N. 37° 30′, W. 46° 00′, lost topmasts and jib-boom in a heavy gale. Vessels near N. 35° and between W. 40° and 50° had hard s. and ssw. gales. On the 23d the storm-centre was apparently near N. 40°, W. 43°; the winds had now shifted to n. and nw. over the region west of W. 45°, and blew with the force of a strong gale. The ship "Ella," in N. 41°, W. 51°, had a violent n. gale, in which she lost part of rail and bulwarks, shifted cargo and had cabin flooded; the bark "Sunbeam," in N. 36° 06′, W. 45° 28′, reported barometer 29.52 (749.8), wind w., force 9; and the U. S. steamer "Lancaster," in N. 38° 55′, W. 49° 05′, barometer 29.58 (751.3), wind n., force 7. By the 24th the centre of disturbance, having moved rapidly northeastward, had reached N. 50°, W. 24°, where the lowest reported barometric reading was 29.37 (746.0). Fresh easterly winds now prevailed over Ireland, while moderate to strong westerly and northwesterly winds were reported to the westward of the twenty-fifth meridian. During the 24th a depression, 29.8 (756.9), developed over Newfoundland and the Banks, and by the 25th the two depressions had apparently united, forming an extended barometric trough, within which moderate, variable winds prevailed. By the 26th the trough had divided; the western half was now merged in an important depression which had moved over the United States, the atmospheric pressure at the centre having rapidly decreased as the disturbance neared Newfoundland. The eastern half occupied the southern part of the Bay of Biscay and the northern part of the Iberian peninsula, the centre being apparently off the coast of the latter. Between these centres of disturbance the pressure began to increase over the ocean, and the high area of the Azores showed a tendency to unite with that which existed over Iceland. On the 27th and 28th the disturbance moved slowly over the Iberian peninsula, and by the 29th it was shown as an extensive but shallow depression covering the Mediterranean and Algeria. Rain fell at stations in Italy and southern France, with cloudy weather in Spain and Algeria, accompanied by high winds in the latter. On the 30th the centre of disturbance appeared to be over the Gulf of Genoa, and by the 31st it had moved over Italy to the Adriatic, the pressure ranging from 29.55 (750.6) to 29.7 (754.4).

XXVI.—This depression appeared in western Siberia on the 23d, pressure at Akmolinski 29.64 (752.8), wind sw.; on the 24th there was no material change in the position of the disturbance, but by the 25th it had moved northeastward beyond the limits of observation.

XXVII.—This was a continuation of the disturbance described as low area vi. of this REVIEW. On the 27th it was central as a storm of considerable energy to the northeastward of Newfoundland, causing strong s. to sw. gales in the eastern quadrants. The depression moved slowly north-northeastward, and on the 28th it was to the southwestward of Greenland, the lowest reported pressure being 29.54 (750.3), wind ssw., force 6, observed on board the s. s. "Buenos Ayrean," in N. 54° 58′, W. 43° 55′. To the westward of the thirtieth meridian the pressure was above 30.0 (762.0). On the 29th the disturbance advanced slowly eastward, the high-pressure in front of it gradually giving way; during this time stormy weather prevailed to the eastward and southward of the depression. On the 30th the storm-centre was apparently near N. 55°, W. 25°, and at the close of the month it was shown in N. 56°, W. 20°; the barometer at the centre now read 29.39 (746.5), and strong southerly gales prevailed off the Irish coasts, while the area of high-pressures, which had occupied the British Isles, was being forced to the eastward.

XXVIII.—This depression appeared in Scandinavia on the 27th, and was chiefly remarkable for the abnormal track of the centre. On the 27th the pressure decreased to 29.95 (760.7) in Norway, accompanied by rainy weather at southern stations; the disturbance moved south-southeastward, and on the 28th it occupied the Baltic, causing snow or rain at stations in northern Europe. On the 29th the disturbance moved into northern Germany, where it was apparently dissipated.

XXIX.—On the 15th there was a decrease of pressure over the Sea of Okhotsk, the barometer at Nikolaevsk on the Amoor having fallen from 29.83 (757.6) to 29.54 (750.2). By the 16th the decrease had spread southeastward over the Pacific ocean; in the report of the s. s. "Belgic," H. Davidson, commanding, in N. 43° 48′, E. 167° 56′, on the 16th, the barometer read 29.62 (752.3), showing a decrease of about .4 inch since the observation of the 15th; wind ese., force 6, overcast, rainy. The s. s. "Belgic" appears to have moved eastward in the western quadrants of the depression for several days, or until the course of the disturbance changed to the northward. On the 17th, in N. 43° 34′, E. 174° 10′, the barometer read 29.11 (739.4), wind wnw., force 8, overcast, rainy; 18th (19th, ship's date), in N. 43° 11′, E. 180° 00′, barometer 29.56 (750.8), wind wnw., force 8, cloudy. The s. s. "Oceanic," W. H. Kidley commanding, in N. 35° 10′, W. 171° 46′, had w. wind of force 6, barometer falling from 30.08 (764.0) to 29.98 (761.5). On the 19th the s. s. "Belgic," in N. 43° 11′, W. 174° 04′, reported barometer 29.58 (751.3), wind wsw., force 4, raining. On the 20th the storm-centre appears to have been near the "Belgic;" that vessel, in N. 43° 05′, W. 167° 34′, reported barometer 29.16 (740.7), wind sw., force 6, cloudy. By the 21st the steamer had passed to the eastward of the storm-centre, which was now apparently moving northeastward; the "Belgic," in N. 42° 55′, W. 161° 00′, reported barometer 29.12 (739.6), wind sw. by s., force 6, fair. At the same time the pressure had decreased to the northward, the barometer at Fort Saint Michaels, Alaska, read 29.45 (748.0), a fall of .18 inch, wind shifting from se. to e. During the 22d the disturbance moved northward, the pressure continuing to decrease at Fort Saint Michaels, where the barometer on the 22d read 29.28 (743.7), wind e. On the 23d the wind at the above station shifted to ne., with barometer down to 29.22 (742.2); 24th, barometer 29.12 (739.6), wind ne. At Ooglaamie, Alaska, on the 23d, the pressure was about 29.74 (755.4) throughout the day, wind nne. to ne., 20 to 28 miles an hour, snowing; on the 24th, barometer at that station slowly falling to 29.52 (749.8), wind n. to ne., increasing from 13 miles to 44 miles an hour, snowing. On the 25th the pressure at Fort Saint Michaels was 29.14 (740.1), wind n., increasing to 20 miles an hour, light snow; at Ooglaamie the barometer ranged from 29.46 (748.3) to 29.51 (749.5), wind n., decreasing in force. On the 26th the wind remained at n., but increased to 40 miles an hour at Fort Saint Michaels, barometer slowly rising. On the 27th the decrease of pressure spread to the eastward, causing a fall in the barometer at Sitka. On the 28th the centre of disturbance was apparently to the eastward of Sitka, where the barometer read 29.23 (742.4), wind ne., light. On the 29th and 30th the disturbance occupied eastern Alaska and the Northwest Territories of British America. On the 31st a depression, which was probably identical with the present disturbance, appeared in Manitoba.

The following notes on the typhoons of October, 1881, are taken from Mr. Marc Dechevrens' "Typhoons of 1881."

I.—This typhoon was one of the most disastrous of the season; it was first observed to the eastward of Luzon on September 29th and 30th. Moving in a westerly direction south of Manila, it reached the China sea on October 1st; during its passage over Luzon it caused much damaged in the southern provinces of that island, and was attended by heavy rains, which added considerably to the damage resulting from the violent winds. The typhoon appears to have been much more violent in the southern semi-circle, with westerly winds, than in the northern, with easterly winds. Several vessels encountered the typhoon in the China sea, and all agree as to the violence of the disturbance, especially in the force of the westerly winds. The report of the s. s. "Fleurs Castle," which was within the calm-centre, is interesting; the typhoon first gave evidence of its approach on the 2d, in about N. 14°, E. 112°, by strong, increasing nw. breeze, with violent squalls and heavy rain; sky black and threatening, and barometer falling

rapidly. At 3.30 p. m. of the 2d the barometer had fallen to 28.8 (731.5), wind blowing from the nw. with terrific force; at 5 p. m. the barometer read 28.3 (718.8), which was its lowest reading; at 5.30 the weather suddenly brightened, the wind falling almost to a calm; 6 p. m., barometer 28.3 (718.8), a large number of birds alighted on the ship and remained until 7 p. m.; at 7.30 the wind suddenly burst out from the sw. with renewed fury; at 11 p. m. the barometer read 29.2 (741.7), rising, and wind moderating. The typhoon is here well-defined with its nw. wind, shifting to w., and then to sw. after the passage of the centre. The duration of the calm was about an hour and a quarter, and the velocity of translation of the typhoon was about ten and a half miles an hour; thus it may be inferred that the diameter of the calm-centre was about ten or twelve miles; within this region myriads of birds sought refuge, and a clear sky, with sunshine, prevailed. Notice should be taken of the depth of the central depression, as indicated by the reading of the barometer, 28.3 (718.8), on board the "Fleurs Castle," which was then in about N. 15°, E. 113°; at the same hour the barometer on board H. M. S. "Magpie," in the bay of Hoihow, Hainan, read 29.78 (756.4), thus giving a gradient of 1.48 inches for a distance of three hundred and forty-five miles. After crossing the meridian of 115° east longitude the typhoon appears to have divided into two parts; these segments moved west-northwestward on nearly parallel lines until the 5th, when they entered the Gulf of Tonquin. Vessel-reports indicate that both of these disturbances exhibited great energy during their passage over the China sea. The northernmost segment, after rounding the southern part of Hainan, passed northwestward over the Gulf of Tonquin and entered China. During the 5th, 6th, and 7th it passed northeastward over the provinces of Quang-Si, Kiang-Si, and Che-Kiang, and reached the Yellow sea to the southward of Cape Shan-Tung. Moving northeastward it crossed the peninsula of Corea and passed into the Sea of Japan, where it was central on the 9th; during that day it moved over the northern part of Niphon, and on the 10th it disappeared in the Pacific. At Zi-Ka-Wei, during the passage of the disturbance, the lowest barometric reading was 29.82 (757.4) at 4 a. m. of the 8th, with heavy rain from 2 to 3 a. m. At stations in Japan, during the passage, the lowest readings ranged from 29.55 (750.6) to 29.75 (755.6). The second, or southernmost, segment was the most disastrous in its effect on life and property. It appears to have passed over the southern part of the province of Tonquin, and to have moved over central China much farther to the westward than its companion; it also reached a higher latitude; it lost much of its violence during the 9th and 10th, on which date it reached the Gulf of Pe-Che-Li; it then moved southeastward over Corea to southern Japan, without exhibiting any storm-energy, and finally passed into the Pacific as a slight depression on the 13th. The velocity of translation of the first, or northern, segment of the typhoon, which retained its original energy longer and which moved with greater rapidity than the other, was about nine miles an hour from Luzon to Tonquin; in China it was about fifteen miles, and in the Yellow sea and Japan it increased to thirty miles an hour. The second, or southern, segment moved over China at the rate of about twelve miles an hour, and after again leaving the continent on the 11th, its velocity was about thirteen miles an hour. This typhoon is reported to have been one of the most disastrous ever experienced on the coast of Tonquin. But few buildings were able to withstand the fury of the wind, and were consequently leveled; the high tide, assisted by the heavy rain which fell, inundated the country and augmented the damage and suffering. Up to the 8th the number of junks known to have been lost was sixty-one, and the bodies of two hundred and twenty-seven persons had been recovered. At Tallee there were six feet of water in the houses three or four miles distant from the sea-shore, and the current was so strong that it swept away the greater part of the town; the estimated number of persons drowned was three thousand. The bishop of western Tonquin, in a telegram sent to Paris a few days after the storm, stated that two hundred churches and thirty-four parsonages and colleges were destroyed, and two thousand houses blown down.

II.—This typhoon was observed on the 12th, on which date it was to the eastward of Luzon and moving in a northwesterly direction. During the day it passed over the northern part of Luzon, causing furious gales in that island; at Manila the wind blew in gusts for a short time at the rate of seventy miles an hour, but the mean velocity of the wind during the heaviest period of the storm did not exceed fifty miles an hour; the wind blew from the sw., and the lowest reading of the barometer was 29.62 (752.3). At Tuguegarao, in northern Luzon, the barometer at 8.15 p. m. of the 12th read 29.3 (744.2), wind se., 40 miles an hour, stormy weather. It moved over the China sea during the 13th and 14th; its violence was felt by the ship "Geraldine Paget," which, after being roughly handled by the typhoon, was finally driven on the eastern side of Pratas shoal (about N. 20°, E. 115°). The typhoon passed south of Pratas reef, and moving in a northwesterly direction it entered China, in about the latitude of Hong-Kong, on the early part of the 15th. The barometric minimum observed on board H. M. S. "Magpie," anchored about forty miles south of Hong-Kong, was 29.14 (740.1), wind nw., force 10, with torrents of rain. On board the s. s. "Rosetta," to the eastward of Hong-Kong, in about N. 22° 29′, E. 116° 14′, the lowest reading was 29.41 (747.0), wind se. by e., force 10. The storm does not appear to have extended very far north, since it was scarcely felt beyond the Straits of Formosa. The centre of the typhoon passed very near Hong-Kong and caused great damage to native craft in, and near, the harbor. At Macao more than fifty junks of all sizes were completely wrecked, and as many more were damaged. At Canton the destruction to life and property was very great, caused chiefly by the heavy floods which occurred during the passage of the typhoon. After passing Hong-Kong the typhoon moved north, or northeastward, losing much of its violence, as it was scarcely felt at Zi-Ka-Wei, but on reaching the sea on the 17th it developed new energy. It moved northeastward over the Yellow sea and the peninsula of Corea on the 17th, accompanied by squally weather and southerly backing to northwesterly winds of force 6 to 8. After passing over the Sea of Japan it entered Niphon and crossed over that island towards the Pacific, where it disappeared on the 18th; it manifested no violence when in Japan, its presence being indicated only by light rains and a slight decrease of pressure. The velocity of translation of this typhoon was about ten and three-quarter miles an hour when over the China sea (13–15th); it afterwards increased to fifteen miles an hour in China, and when over the Yellow sea and the Sea of Japan it averaged thirty-six miles an hour.

III.—This typhoon apparently originated in the southeastern part of the Philippine archipelago prior to the 18th; it moved west-northwestward, and passed Mindoro island on that date, exhibiting much violence during its passage. On the 19th the wind reached a velocity of 50 miles nnw. at Tuguegarao, and of 34 miles w. at Manila, with heavy rain at the former station. From the 20th to 24th the typhoon moved slowly westward over the China sea, causing, during its progress, the wreck of the American ship "Humboldt" on the Paracel islands. Passing to the southward of Hainan the centre of the typhoon entered the Gulf of Tonquin on the 24th; the lowest observed pressure during its passage over the China sea was 29.42 (747.3), and the highest winds reported were of force 9; there were no reports of damage in the Gulf of Tonquin. During the 24th the disturbance passed over western Tonquin and into central China; it moved north-northeastward, causing fresh to strong winds at stations east of the centre, and on the 28th it was to the northward of the Gulf of Pe-Che-Li. It was attended by heavy weather over the Gulf and the northern part of the Yellow sea; it then passed over northern Corea and into the Sea of Japan, and thence southeastward over Niphon to the Pacific, where it disappeared on the 30th, its passage over Niphon being hardly perceptible. The velocity of translation

was as follows: in the China sea, from the 19th to 22d, 5.2 miles, and from the 22d to 25th, 9.7 miles; in central China, from the 25th to 28th, 18.3 miles; over northern China and the Sea of Japan, from the 28th to 30th, 21.7 miles an hour.

GENERAL REMARKS.

All data which appear in the DAILY BULLETIN OF SIMULTANEOUS METEOROLOGICAL OBSERVATIONS are copied from the regular exchanges of this office. The barometer readings for land stations, in the first and second columns, are reduced to freezing and their respective standards; those in the third and fourth columns to sea-level. When necessary, corrections for instrumental error, temperature, and reduction to sea-level are always applied, while those for instrumental error, only when such corrections can be ascertained with close approximation, as by comparison when vessels are at or near land stations. Relative humidity generally requires computation from the hygrometrical observations. When rain has fallen, but neither the amount nor duration is recorded, the word "blank" is published in the rainfall column. The weather is generally published as given. The following symbols and abbreviations are common to all series, viz: †, aneroid; *, instrumental error not known; c, cirrus; k, cumulus; s, stratus; n, nimbus; d, scud; f, fracto; p, pallio; hz, haze; fg, fog; sk, smoke; inap, inappreciable; d. clouds, detached clouds. The movement of the air is published as given on the originals, when indicated by velocity in miles per hour, in meters per second, or by force, all variations of the latter being reduced to the common scale of 0 to 10. Those stations reporting the movement in pounds pressure per square foot are reduced to force on the common scale, and those in kilometers per hour, to meters per second and miles per hour. The distinction between upper and lower clouds is carefully made in the United States and a portion of the Canadian series, and the various formations are indicated by the letters above given and their combinations. In the MONTHLY SUMMARY OF INTERNATIONAL SIMULTANEOUS METEOROLOGICAL OBSERVATIONS the position of stations (latitude and longitude) are obtained from Keith Johnson's "Index Geographicus," except where more exact information is furnished. The elevation of stations is obtained either from the annual, semi-annual, and monthly publications of the various meteorological bureaus here represented, or from the original forms upon which are entered the daily observations. In the United States series the elevations are computed from the latest surveys, and are carefully revised each month, in order to note any change in the elevation of the barometer-cistern at any station. It is believed for the most part that, throughout the European and other series, the elevations as given represent the height of the barometer-cistern above sea-level; at least, this should be the case. The local time, where omitted or not given correctly in the original, is carefully computed at this office. A letter placed opposite the name of a station or some portion of the data credited thereto, indicates that a certain number of observations are missing, corresponding to the relative position in the alphabet of the letter so used.

INTERNATIONAL CHARTS ACCOMPANYING DAILY BULLETIN AND MONTHLY SUMMARY.

International chart i. shows isobars and isotherms charted from data as appearing in the INTERNATIONAL BULLETIN of same date, as reported by the several observers. Isobars, in continuous lines, exhibit atmospheric pressure at sea-level in English inches; isotherms, in dotted lines, exhibit temperature of the air in degrees, Fahrenheit, similarly charted.

International chart ii. (monthly mean chart), showing mean pressure at sea-level in English inches, mean temperature in degrees, Fahrenheit, mean force and prevailing direction of wind at 7 a. m., Washington mean time.

International chart iii. shows tracks of centres of low barometer. The Arabic numerals show location of the centres of low barometer at 7 a. m., Washington mean time, of that date.

In the above charts, broken lines indicate that the lines so drawn are doubtful.

Arrows show direction of, and fly with, the wind. Force is shown as follows:

SYMBOLS.	FORCE.	VELOCITY.	
		MILES PER HOUR.	METRES PER SECOND.
○	0	0	0
→	1, 2	0 to 9	0 to 4
→	3, 4	9.1 to 22.5	4.1 to 10.1
→	5, 6	22.6 to 40.5	10.1 to 18.1
→	7, 8	40.6 to 67.5	18.1 to 30.2
→	9, 10	67.6 up.	30.2 and over.

On February 1, 1883, the following change was made in publishing marine data in the "Daily International Bulletin":

All marine reports are classified as to districts, which are designated as follows: District No. 1, North Atlantic; District No. 2, South Atlantic, &c., under which headings the respective reports are printed.

BOUNDARIES OF DISTRICTS.

District No. 1 comprises the Atlantic ocean, its arms and tributaries, from the equator northward to the pole, and in the arctic from 100° E., westward to 100° W., of Greenwich.

District No. 2 comprises the Atlantic ocean, its arms and tributaries, from the equator southward to the pole, and in the antarctic from 20° E., westward to 70° W., of Greenwich.

District No. 3 comprises the Pacific ocean, its arms and tributaries, from the equator northward to the pole, and in the arctic from 100° W., westward to 100° E., of Greenwich.

District No. 4 comprises the Pacific ocean, its arms and tributaries, from the equator southward to the pole, and in the antarctic from 70° W., westward to 145° E., of Greenwich.

District No. 5 comprises the Indian ocean, its arms and tributaries, from the Asiatic continent southward to the pole, and in the antarctic from 20° E., eastward to 145° E., of Greenwich.

The following remarks relate to the individual peculiarities in the *methods* of recording, and the *times* of taking, the international simultaneous meteorological observations, under the auspices of the various meteorological bureaus:

ALGERIAN SERIES (furnished by co-operation of General Maritz, Commandant Supérieur du Génie in Algeria).—The originals give the barometer in millimetres reduced to sea-level; temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 10. The rainfall is measured at 7 a. m., local time, and the amount indicated in millimetres.

AUSTRALIAN SERIES (furnished by co-operation of R. L. J. Ellery, Director of the Observatory at Melbourne, N. S. W.).—At Melbourne the conversions are published as given in the originals. The movement of the air is indicated by velocity in miles per hour.

AUSTRO-HUNGARIAN SERIES (furnished by co-operation of Prof. Dr. Julius Hann, Director of the Imperial and Royal Central Meteorological Institute at Vienna).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. At the following stations rainfall is measured at local time: Lemburg, 7 p. m.; Vienna, 2 p. m.; Trieste, 7 a. m. The weather is given by the Vienna symbols or in general terms.

BRITISH SERIES (furnished by co-operation of the Meteorological Council, London, Robert H. Scott, Esq., F. R. S., Secretary, and respective observers).—In general the originals do not give rainfall or distinction between upper and lower clouds. Relative humidity, except for Bradford and Silloth Rectory, is not given on the originals, but is computed from hygrometrical observations. At Cardington, Oxford, and Sandwick Manse the barometers are given as read off. At Greenwich the movement of the air is indicated by pounds pressure per square foot. At the following stations rainfall is measured at local time: Bradford, 9 a. m., and Aberdeen, 10 a. m. The wind-direction is given to 32 points and weather by the Beaufort notation.

CANADIAN SERIES (furnished by co-operation of Charles Carpmael, A. M., F. R. A. S., Director of the Magnetic Observatory at Toronto and Superintendent of the Meteorological Office of the Dominion of Canada, and respective observers).—The originals give the barometer reduced to sea-level in English inches and the temperature in Fahrenheit. Meteorological reports from stations marked with a * are telegraphed daily to the office of the Chief Signal Officer of the Army.

CAPE COLONY SERIES (furnished by co-operation of the Meteorological Commission of Cape Colony, Cape Town, and respective observers).—At Cape Town the barometer is given on the original as corrected for temperature only. Upper and lower clouds are given on a scale of 0 to 10, and the kind occasionally indicated by abbreviating Poëy's classification.

CHINESE SERIES (furnished by co-operation of Marc Dechevrens, S. J., Director of the Meteorological Observatory at Zi-Ka-Wei).—At Zi-Ka-Wei the originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is given in metres per second and the direction to 16 points. The kind of clouds is occasionally given, and the degree of cloudiness on the scale of 0 to 10; distinction between upper and lower clouds is sometimes made. The weather is given in general (French) terms. The rainfall is given in millimetres and measured at the moment of simultaneous observation. Tchang-Kia-Tchouang, the original gives barometer in millimetres reduced to sea-level, temperature in Centigrade, velocity in kilometres for past 3 hours 53 minutes, clouds on scale of 0–10, no distinction between upper and lower.

DANISH SERIES (furnished by co-operation of Captain N. Hoffmeyer, Director of the Royal Danish Meteorological Institute at Copenhagen).—The originals give the barometer in millimeters reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 6. The weather is occasionally given by the Vienna symbols, but it is not certain that they always refer to the moment of simultaneous observations, except at Copenhagen. No distinction is made between upper and lower clouds, and the direction of movement, together with the rainfall, is entirely omitted. At Jacobshavn and Upernavik, the observations are taken at 8 a. m., instead of 8.44 and 8.24 a. m., respectively.

FRENCH SERIES (furnished by co-operation of the Central Meteorological Office of France, Professor E. Mascart, Director, and respective observers).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 6, except in metres per second for Mont Louis and Perpignan. In general the rainfall is measured at 9 a. m., local time. The direction of upper and lower clouds is given, but no distinction is made as to kind. The degree of cloudiness is given on a scale of 0 to 4 at Clermont-Ferrand and Puy de Dome, while at other stations the scale of 0 to 10 is

employed, or general weather terms, from which the amount of cloudiness is inferred. The weather is given in general terms, except occasionally by the Vienna symbols at Mont Louis and Perpignan. At Besançon the observations are taken at at midday instead instead of 0.32 p. m.

GERMAN SERIES (furnished by co-operation of Prof. Dr. G. Neumeyer, Director of the German Marine Observatory at Hamburg).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 10. The kind of clouds is occasionally given, but no distinction is made between upper and lower; the amount is given on a scale of 0 to 10, but the kind is rarely given. The weather is given in Vienna symbols or in general terms.

GREEK SERIES (furnished by co-operation of Prof. Dr. J. F. Julius Schmidt, Director of the Royal Observatory at Athens).—The originals give the barometer corrected for temperature only, and the thermometer in Centigrade. Hygrometrical observations are not given. The kind of clouds is occasionally given, and the amount is inferred from the general weather terms. The movement of the air is indicated by force on a scale of 0 to 10.

INDIAN SERIES (furnished by co-operation of H. F. Blanford, Meteorological Reporter to the Government of India at Calcutta).—The barometric observations refer to the Calcutta standard, which requires a correction of —0.011 inch, or 0.28 mm., as compared with the Kew standard. The wind-velocity given is the average rate of wind since the observation of the preceding day. All conversions are published as given in the originals, where the data are recorded to an additional decimal. The weather is given by the Beaufort notation, Vienna symbols, or special symbols.

ITALIAN SERIES (by authority of the Minister of Agriculture, Industry, and Commerce—furnished by co-operation of Professor P. Tacchini, Director of the Central Meteorological Office at Rome, and respective observers).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by velocity in kilometres per hour, or by force on a scale of 0 to 4, as at Mondovi, Florence, and Cagliari. No distinction is made between upper and lower clouds, and the amount is given on a scale of 0 to 10.

JAPANESE SERIES (furnished by co-operation of I. Arai, Director of the Imperial Meteorological Observatory at Tokei).—The rainfall is measured at 9.30 a. m., local time, and the conversions are all published as given in the originals. Distinction is generally made between upper and lower clouds, and the amount is given on a scale of 0 to 10. The weather is given in general terms.

MAURITIUS SERIES (furnished by co-operation of C. Meldrum, Secretary of the Meteorological Society of Mauritius).—All conversions are published as given in the originals. The direction of the wind is given to 64 points, and the rainfall is measured at 9.30 a. m., local time.

MEXICAN SERIES (by authority of the Secretary of Public Works—furnished by co-operation of Señor Mariano Barcena, Director of the Central Meteorological Observatory in the City of Mexico, and respective observers).—All conversions are published as given in the originals, but when an evident mistake has been made the data is queried at this office. The kind of clouds is given, and also the direction and amount of both upper and lower. The degree of cloudiness is indicated on a scale of 0 to 10. Rainfall is generally measured at 6 a. m., local time.

NETHERLANDS SERIES (furnished by co-operation of Professor Buys Ballot, Director of the Royal Meteorological Institute of the Netherlands at Utrecht).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by pressure in kilograms per square metre, except at Hellevoetsluis, which gives force on a scale of 0 to 12. The humidity is not given on the originals, but for two stations it is computed from the hygrometrical observations. The weather is only given for Utrecht, from which the amount of cloudiness at that station is inferred.

NORWEGIAN SERIES (furnished by co-operation of Professor H. Mohn, Director of the Royal Norwegian Meteorological Institute at Christiania).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by velocity in metres per second or by force on a scale of 0 to 6. The weather is occasionally given by Vienna symbols. At Bergen observations upon the weather and degree of cloudiness are made at 2 p. m., local time. At Brono the observations are taken at 2 p. m., instead of 12.57 p. m.

PORTUGUESE SERIES (furnished by co-operation of J. C. de Brito Capello, Director of the Meteorological Observatory of the Infante Dom Luiz at Lisbon).—In the originals the barometer is given in millimetres and the temperature in Centigrade. The movement of the air is indicated by velocity in kilometres per hour. The weather is occasionally given by the Vienna symbols. The rainfall is measured at noon each day.

RUSSIAN SERIES (furnished by co-operation of Professor H. Wild, Director of the Imperial Central Physical Observatory of Russia at St. Petersburg).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by velocity in meters per second. No distinction is made between upper and lower clouds; the amount is given on a scale of 0 to 10, and the kind occasionally. The weather is occasionally given by the Vienna symbols. At Astrakhan, Ashurada and Baku, the barometer-cistern is below sea-level. At Kasalinsk, the barometer appears to have a large error.

SCOTTISH SERIES (furnished by co-operation of Alexander Buchan, M. A., F. R. S. E., Secretary of the Scottish Meteorological Society at Edinburg, and respective observers).—The originals give the barometer as read off and the movement of the air is indicated by force on a scale of 0 to 6. Distinction is made between upper and lower clouds as to degree, and the amount of cloudiness is given on a scale of 0 to 10. The direction of upper clouds is given separately. The rainfall, temperature, and humidity are not given at North Unst. The wind-direction is given to 32 points.

SPANISH SERIES (furnished by co-operation of the Royal Observatory at Madrid, and respective observers).—The movement of the air, except for sub-series, is given in kilometres per hour. The kind of clouds is occasionally given, and the degree of cloudiness on a scale of 0 to 10. The rainfall at San Juan is measured at 4 p. m., local time, and at San Fernando at midnight. The weather is given in general (Spanish) terms.

SWEDISH SERIES (furnished by co-operation of Professor R. Rubenson, Director of the Royal Swedish Meteorological Institute, and of Professor H. H. Hildebrandsson, Director of the Meteorological Observatory of the Upsala University).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 6, except in metres per second for Upsala. The kind of clouds is not given, but the degree of cloudiness is indicated on a scale of 0 to 10. The rainfall is measured at 8 a. m., local time, and the weather is occasionally given by the Vienna symbols.

SWISS SERIES (furnished by co-operation of Professor E. Plantamour, Director of the Observatory at Geneva).—The originals give the barometer in millimetres, corrected for temperature only, and the thermometer in Centigrade. The movement of the air is indicated by force on a scale of 0 to 10.

TURKISH SERIES (furnished by co-operation of A. Coumbary, Effendi, Director of the Central Observatory at Constantinople, and of Professor C. V. A. van Dyck, Superintendent of the Lee Observatory at Beirut).—The originals give the barometer in millimetres reduced to sea-level. The temperature is given in Centigrade. The movement of the air is indicated by force on a scale of 0 to 7 for Valona, and on a scale of 0 to 12 for Beirut. At Constantinople the velocity is given in meters per second. The kind of clouds is not given, but the amount is indicated on a scale of 0 to 10, except at Valona, at which station it is inferred from the general weather terms.

UNITED STATES SERIES (by authority of the Secretary of War—furnished by co-operation of W. B. Hazen, Brigadier and Brevet Major General, Chief Signal Officer, U. S. Army).

UNITED STATES SUB-SERIES (furnished by co-operation of the respective observers).—The originals generally give the barometer reduced to sea-level and the temperature in Fahrenheit. At Bogota and Navassa the barometer is corrected for temperature only; at Puerto Berrio, is given as read off, and at Rivas is omitted. The movement of the air is generally indicated by velocity in miles per hour, except on a scale of 0 to 10 for Bogota, Paramaribo, and Rivas, and 0 to 12 for Puerto Berrio. The wind-direction is generally given to 16 points, except 8 points for Bogota and 32 points for Rivas. At Rivas the humidity is obtained by readings from Saussure's hygrometer.

BRITISH NAVAL SERIES (furnished by co-operation of the Meteorological Council, London, Robert H. Scott, Esq., F. R. S., Secretary).—The originals give the barometer as read off. The wind-direction is given to 32 points. The movement of the air is indicated by force on a scale of 0 to 12. The distinction between upper and lower clouds is made as to direction, but not as to amount. The height of the sea-disturbance is given on a scale of 0 to 9, and the weather by the Beaufort notation. The direction of movement of wind, clouds, and sea is compass direction, corrected only for deviation caused by the iron in the ship, while the correction for magnetic variation is applied at this office. The humidity is not given, but is computed from the hygrometrical observations.

PORTUGUESE NAVAL SERIES (furnished by co-operation of J. C. de Brito Capello, Director of the Meteorological Observatory of the Infante Dom Luiz at Lisbon).—The originals give the barometer in millimetres, corrected for temperature only, and the thermometer in Centigrade. The movement of the air is indicated by force on a scale of 0 to 10. The humidity is not given, but is computed from the hygrometrical observations. The kind of clouds is not given, but the amount is indicated on a scale of 0 to 10; the direction of movement is given without distinction between the upper and lower. The height of sea disturbance is given on a scale of 0 to 9 and the weather by the Beaufort notation. The rainfall is not measured, but the duration is generally given in hours and minutes.

SWEDISH NAVAL SERIES (furnished by co-operation of E. Malmberg, Director of the Nautical Meteorological Bureau at Stockholm).—The originals give the barometer as read off. The movement of the air is indicated by force on a scale of 0 to 12, and the direction is corrected for magnetic variation at this office. The humidity is not given, but is computed from the hygrometrical observations. The rainfall is omitted. The height of the sea-swell is given on a scale of 0 to 9 and the weather by the Beaufort notation.

UNITED STATES NAVAL SERIES (by authority of the Secretary of the Navy—furnished by co-operation of the Navy Department, through Commodore John G. Walker, U. S. N., Chief of Bureau of Navigation).—The originals give the barometer as read off. The humidity is not given, but is computed from the hygrometrical observations. The sea-swell and weather are given in general terms. The direction of the wind is compass direction, corrected for variation.

MERCHANT-MARINE SERIES (furnished by co-operation of the owners, agents, &c., of the respective lines and vessels).—Same as U. S. Naval.

OCEAN SQUARES.—The table of ocean square data shows (1) the location

of the centres of squares whose sides extend 5° each in latitude and longitude, (2) the monthly mean pressure and temperature of the air, and the mean force and total frequency of the wind at 7 a. m., Washington time, computed for the centre of each square from daily readings as obtained by interpolation between the isobars and isotherms of the daily international simultaneous weather maps.

ERRATA.

DAILY BULLETIN, February 3, 1883, page 7, district No. 1, bk. "Galena," Cardiff, Eng., should read Cardiff, Wales; same correction on 5, 6, 8, 9, 10, 11, 12, 17, 19, 20.

17th, page 3, Italian, Syracuse, actual barometer 29.98 inches, should read 29.89.

19th, page 1, British, Truro, temperature 8°.6 Cent., should read 8°.9.

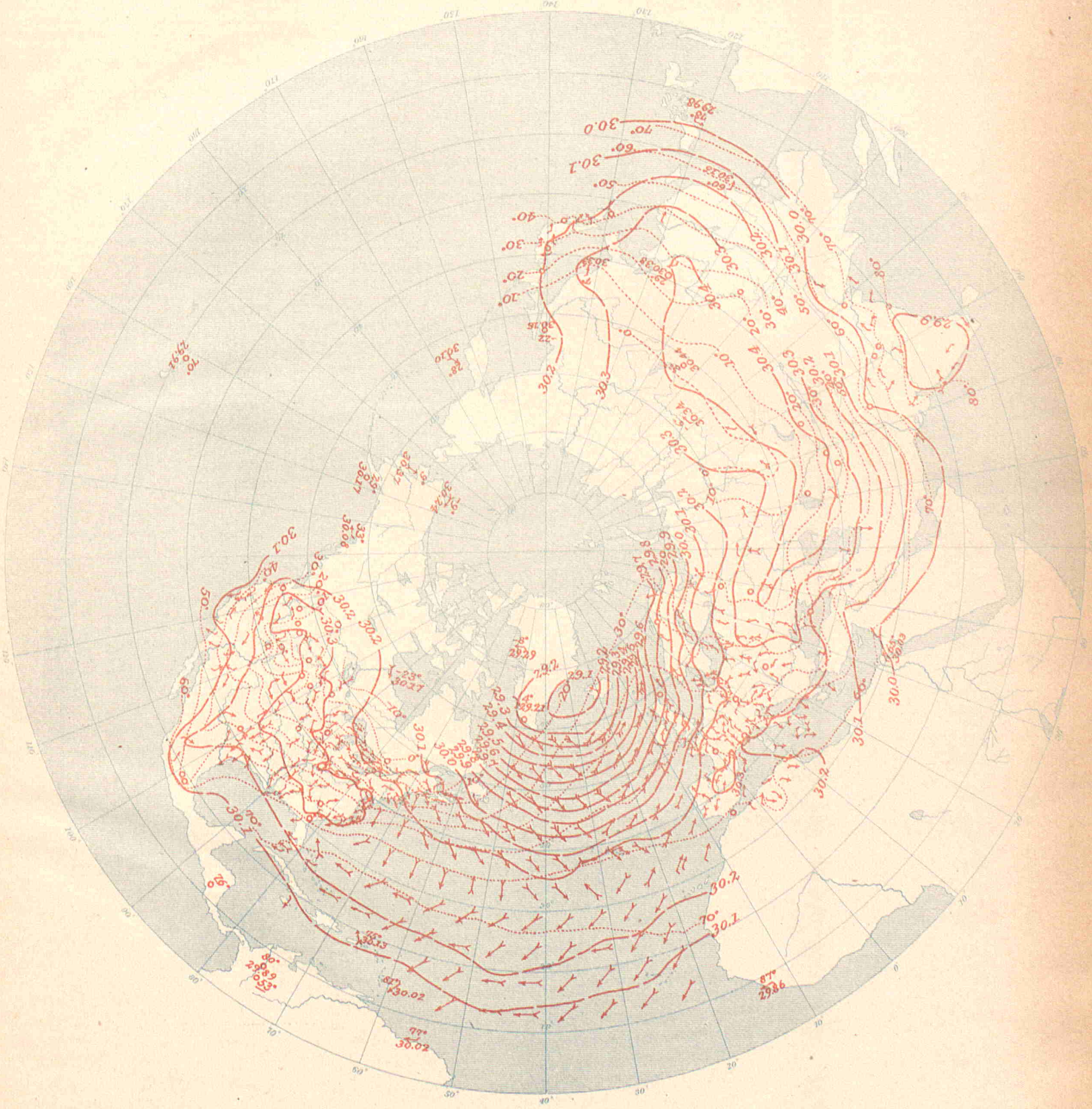
25th, page 5, St. Paul, Minnesota, temperature 14°.2 Cent., should read —14°.2.

26th, page 1, British, Sheffield, reduced barometer 785.7 mm., should read 775.7.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

W. B. HAZEN,
Brig. & Bvt. Maj. Gen'l,
Chief Signal Officer, U. S. A.

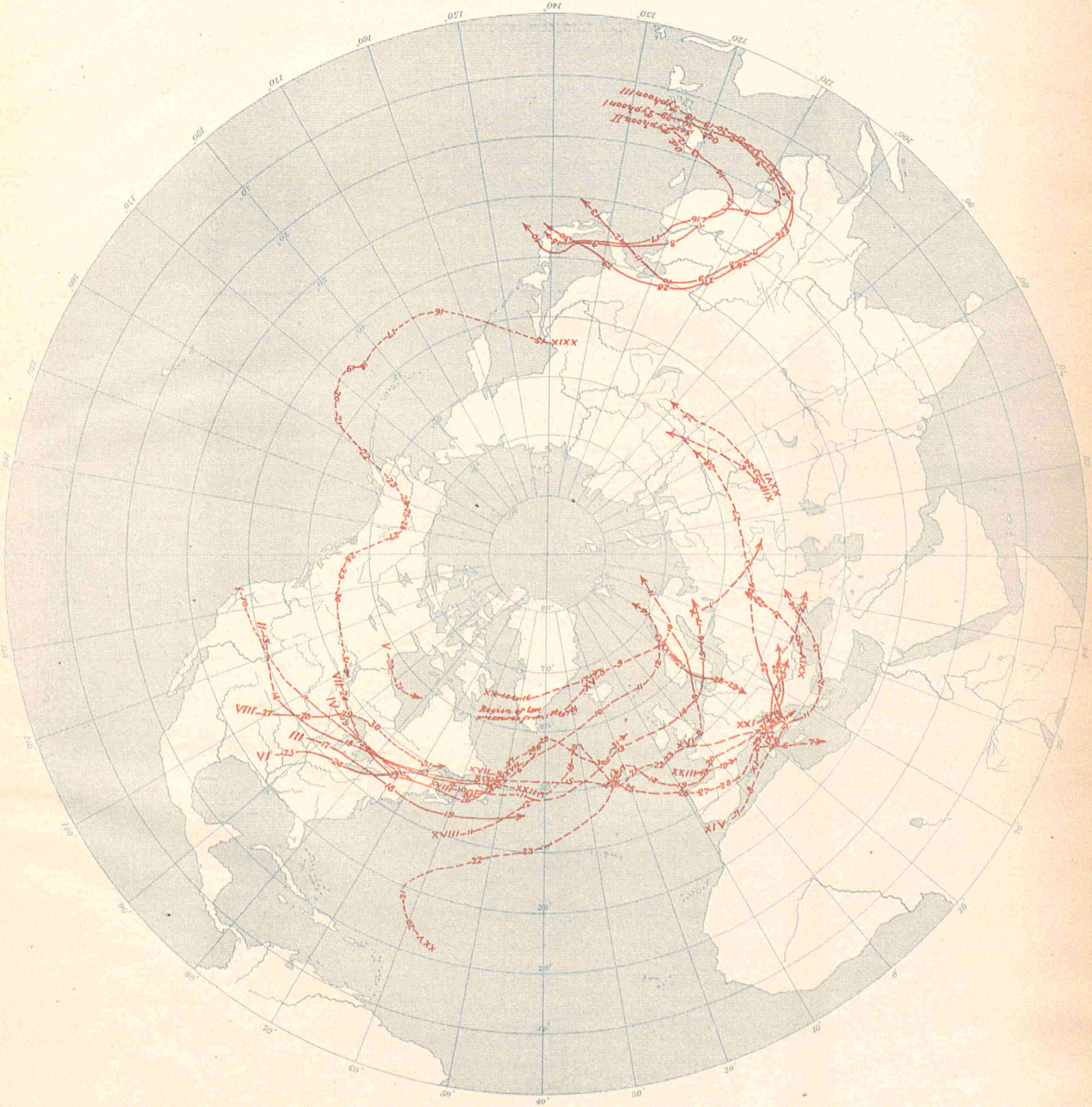
International Chart II. February, 1883. Isobars, Isotherms, and Winds.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B. Hazen, Chief Signal Officer.

International Chart III. October, 1881. Storm-Tracks.



UNITED STATES OF AMERICA.

By Order of the Secretary of War:
W.B. Hazen, Chief Signal Officer.